

PREP BATCH REPORT

Prep Code: **PRP-3010**
 Prep Batch **162992** Prep Temp: **93 °C**

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

Prep Start Date: **1/17/2022 1:21:13 PM**
 Prep End Date: **1/18/2022 9:48:00 AM**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|--------------------|--------------|----|------------------|-----------|---------------|----------------|--------|---------|-----------------|---------------|
| MB-162992 | Temp cell D4 | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| LCS4-162992 | | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010971-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010971-001BMS4 | | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010971-001BMSD4 | | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010972-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010973-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010974-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010975-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010976-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010977-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010978-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010979-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |
| B22010980-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/17/2022 | 1/18/2022 |

| Number | Reagent Name | Exp Date | |
|--------|-------------------------------|------------|------|
| 14614 | 50mL DigiTubes J526127-2104 | 12/10/2022 | |
| 14626 | Nitric Acid 69.0- 70.0% D0521 | 12/14/2026 | 6 mL |
| 14721 | Hydrochloric Acid E1421 | 1/4/2027 | 1 mL |

| 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 |
| ME220106 AUDI | AUDIGSPK | LCS4/MS4 | 0.05 ml | 10/25/2022 |

Energy Laboratories Inc

ANALYTICAL RUN Summary

22-Jan-22

Run ID ICPMS206-B_220118A

Run Start Date: 1/18/2022 6:18:16 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 206 INTERNAL ST | Internal Standards 2 mg/L | | | | | | 2/8/2022 |
| ME220112 50 PPB STANDAR | 50 ppb Standard/CCV | | | | | CRI | 11/18/2022 |
| 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 | | | | | |
|----------|--------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985100 | Rinse | ICPMS-6020-W- SAMP | | | 1/18/2022 6:18:1 | 1 | R373351 | | 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 | | | | | |
|----------|--------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985101 | Rinse | ICPMS-6020-W- SAMP | | | 1/18/2022 6:23:5 | 1 | R373351 | | 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 | | | | | |
|----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985102 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 6:29:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| 14985103 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 6:35:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| 14985104 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 6:18:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| 14985105 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 6:23:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| 14985106 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 6:29:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| 14985107 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 6:35:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| 14985108 | BLANK | ICPMS-6020-W- | SAMP | | 1/18/2022 6:41:1 | 1 | R373351 | | 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 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | | |
| Antimony | A | mg/L | 0 | 0 | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | | |
| Arsenic | A | mg/L | 0 | 0 | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | | |

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|---------------|--------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985108 | BLANK | ICPMS-6020-W- | SAMP | | 1/18/2022 6:41:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Barium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | L |
| Cadmium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | 0 | 0 | 0% | L |
| Cerium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Lanthanum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lithium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | 0 | 0 | 0% | L |
| Magnesium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | 0 | 0 | 0% | L |
| Manganese | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0000666 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | 0 | 0 | 0% | L |
| Selenium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | L |
| Strontium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | L |
| Titanium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|-----------------|---------------|---------------|------------|------------|------------------|-----------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985109 | 0.025 PPB STD | ICPMS-6020B-C | Ca11 | | 1/18/2022 6:47:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0001039 | -0.0001039 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00003152 | 0.00003152 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.00003273 | 0.00003273 | | 0.000025 | 0 | 0 | | 0.001 | | 131% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.00002354 | 0.00002354 | | 0.000025 | 0 | 0 | | 0.0003 | | 94% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.00002131 | 0.00002131 | | 0.000025 | 0 | 0 | | 0.001 | | 85% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.00002233 | 0.00002233 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0000364 | 0.0000364 | | 0.000025 | 0 | 0 | | 0.001 | | 146% | 80 | 120 | 0% | S |
| Calcium | A | mg/L | 0.007952 | 0.007952 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Chromium | A | mg/L | 0.00001346 | 0.00001346 | | 0.000025 | 0 | 0 | | 0.001 | | 54% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.00003141 | 0.00003141 | | 0.000025 | 0 | 0 | | 0.001 | | 126% | 80 | 120 | 0% | S |
| Copper | A | mg/L | 0.00004325 | 0.00004325 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Iron | A | mg/L | 0.0006407 | 0.0006407 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Lanthanum | A | mg/L | 0.00003013 | 0.00003013 | | 0.000025 | 0 | 0 | | 0.001 | | 121% | 80 | 120 | 0% | S |
| Magnesium | A | mg/L | 0.007034 | 0.007034 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Manganese | A | mg/L | 0.00002021 | 0.00002021 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Mercury | A | mg/L | 8.795E-07 | 8.795E-07 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00003368 | 0.00003368 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Nickel | A | mg/L | 0.00001774 | 0.00001774 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.008335 | 0.008335 | | 0.00625 | 0 | 0 | | 1 | | 133% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.00004974 | 0.00004974 | | 0.000025 | 0 | 0 | | 0.005 | | 199% | 80 | 120 | 0% | S |
| Silicon | A | mg/L | 0.0001411 | 0.0001411 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.00001559 | 0.00001559 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Sodium | A | mg/L | 0.01229 | 0.01229 | | 0.00625 | 0 | 0 | | 1 | | 197% | 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 | 0.00002876 | 0.00002876 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00001732 | 0.00001732 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |
| Tin | A | mg/L | -0.002421 | -0.002421 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.0001535 | 0.0001535 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.0000268 | 0.0000268 | | 0.000025 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.00003025 | 0.00003025 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | 0.00006768 | 0.00006768 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.0006407 | 0.0006407 | | 0.000025 | 0 | 0 | | 0.01 | 5 | 2563% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.00030195 | 0.00030195 | | 0.0000535 | 0 | 0 | | 0.214 | 0.9 | 564% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985110 | 0.05 PPB STD | ICPMS-6020B-C | Cal2 | | 1/18/2022 6:53:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.00032 | -0.00032 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00006063 | 0.00006063 | | 0.00005 | 0 | 0 | | 0.001 | | 121% | 80 | 120 | 0% | S |
| Arsenic | A | mg/L | 0.00006374 | 0.00006374 | | 0.00005 | 0 | 0 | | 0.001 | | 127% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.00006519 | 0.00006519 | | 0.00005 | 0 | 0 | | 0.0003 | | 130% | 80 | 120 | 0% | S |
| Beryllium | A | mg/L | 0.00007707 | 0.00007707 | | 0.00005 | 0 | 0 | | 0.001 | | 154% | 80 | 120 | 0% | S |
| Boron | A | mg/L | 0.00006384 | 0.00006384 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00007258 | 0.00007258 | | 0.00005 | 0 | 0 | | 0.001 | | 145% | 80 | 120 | 0% | S |
| Calcium | A | mg/L | 0.01585 | 0.01585 | | 0.0125 | 0 | 0 | | 1 | | 127% | 80 | 120 | 0% | S |
| Chromium | A | mg/L | -1.983E-05 | -1.983E-05 | | 0.00005 | 0 | 0 | | 0.001 | | -40% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.00006452 | 0.00006452 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Copper | A | mg/L | 0.00007128 | 0.00007128 | | 0.00005 | 0 | 0 | | 0.005 | | 143% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.001484 | 0.001484 | | 0.00125 | 0 | 0 | | 0.01 | | 119% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.0000648 | 0.0000648 | | 0.00005 | 0 | 0 | | 0.001 | | 130% | 80 | 120 | 0% | S |
| Magnesium | A | mg/L | 0.01593 | 0.01593 | | 0.0125 | 0 | 0 | | 1 | | 127% | 80 | 120 | 0% | S |
| Manganese | A | mg/L | 0.00005871 | 0.00005871 | | 0.00005 | 0 | 0 | | 0.001 | | 117% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 3.574E-09 | 3.574E-09 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00006834 | 0.00006834 | | 0.00005 | 0 | 0 | | 0.001 | | 137% | 80 | 120 | 0% | S |
| Nickel | A | mg/L | 0.0000922 | 0.0000922 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.01602 | 0.01602 | | 0.0125 | 0 | 0 | | 1 | | 128% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.00005862 | 0.00005862 | | 0.00005 | 0 | 0 | | 0.005 | | 117% | 80 | 120 | 0% | |
| Silicon | A | mg/L | -5.384E-05 | -5.384E-05 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.00003231 | 0.00003231 | | 0.00002 | 0 | 0 | | 0.001 | | 162% | 80 | 120 | 0% | S |
| Sodium | A | mg/L | 0.01656 | 0.01656 | | 0.0125 | 0 | 0 | | 1 | | 132% | 80 | 120 | 0% | S |
| Strontium | A | mg/L | 0.00006167 | 0.00006167 | | 0.00005 | 0 | 0 | | 0.001 | | 123% | 80 | 120 | 0% | S |
| Thallium | A | mg/L | 0.00006392 | 0.00006392 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00004177 | 0.00004177 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |
| Tin | A | mg/L | -0.002426 | -0.002426 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00008878 | 0.00008878 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.00005896 | 0.00005896 | | 0.00005 | 0 | 0 | | 0.001 | | 118% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.00004706 | 0.00004706 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | -8.325E-05 | -8.325E-05 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.001484 | 0.001484 | | 0.00005 | 0 | 0 | | 0.01 | 5 | 2968% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.0001152 | -0.0001152 | | 0.00428 | 0 | 0 | | 0.214 | 0.9 | -3% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|----------|----------|-----------|--------|--------|--------|--------|-----|------|------|---|
| 14985111 | 0.10 PPB STD | ICPMS-6020B-C | Cal3 | | 1/18/2022 6:59:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0002104 | -0.0002104 | | 0.0001 | 0 | 0 | | 0.01 | | -210% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.0001164 | 0.0001164 | | 0.0001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0001298 | 0.0001298 | | 0.0001 | 0 | 0 | | 0.001 | | 130% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.000131 | 0.000131 | | 0.0001 | 0 | 0 | | 0.0003 | | 131% | 80 | 120 | 0% | S |
| Beryllium | A | mg/L | 0.0001396 | 0.0001396 | | 0.0001 | 0 | 0 | | 0.001 | | 140% | 80 | 120 | 0% | S |
| Boron | A | mg/L | 0.00006582 | 0.00006582 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0001186 | 0.0001186 | | 0.0001 | 0 | 0 | | 0.001 | | 119% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.02936 | 0.02936 | | 0.025 | 0 | 0 | | 1 | | 117% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.00003344 | 0.00003344 | | 0.0001 | 0 | 0 | | 0.001 | | 33% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.0001333 | 0.0001333 | | 0.0001 | 0 | 0 | | 0.001 | | 133% | 80 | 120 | 0% | S |
| Copper | A | mg/L | 0.0001322 | 0.0001322 | | 0.0001 | 0 | 0 | | 0.005 | | 132% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.002979 | 0.002979 | | 0.0025 | 0 | 0 | | 0.01 | | 119% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.0001235 | 0.0001235 | | 0.0001 | 0 | 0 | | 0.001 | | 124% | 80 | 120 | 0% | S |
| Lead | A | mg/L | 0.0001248 | 0.0001248 | | 0.0001 | 0 | 0 | | 0.001 | | 125% | 80 | 120 | 0% | S |
| Magnesium | A | mg/L | 0.03021 | 0.03021 | | 0.025 | 0 | 0 | | 1 | | 121% | 80 | 120 | 0% | S |
| Manganese | A | mg/L | 0.0001327 | 0.0001327 | | 0.0001 | 0 | 0 | | 0.001 | | 133% | 80 | 120 | 0% | S |
| Mercury | A | mg/L | 0.00000149 | 0.00000149 | | 0.000002 | 0 | 0 | | 0.001 | | 75% | 80 | 120 | 0% | S |
| Molybdenum | A | mg/L | 0.0001064 | 0.0001064 | | 0.0001 | 0 | 0 | | 0.001 | | 106% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0001373 | 0.0001373 | | 0.0001 | 0 | 0 | | 0.005 | | 137% | 80 | 120 | 0% | S |
| Potassium | A | mg/L | 0.0285 | 0.0285 | | 0.025 | 0 | 0 | | 1 | | 114% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.0001245 | 0.0001245 | | 0.0001 | 0 | 0 | | 0.005 | | 125% | 80 | 120 | 0% | S |
| Silicon | A | mg/L | -0.0002189 | -0.0002189 | | 0.0004 | 0 | 0 | | 0.1 | | -55% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.00005544 | 0.00005544 | | 0.00004 | 0 | 0 | | 0.001 | | 139% | 80 | 120 | 0% | S |
| Sodium | A | mg/L | 0.03445 | 0.03445 | | 0.025 | 0 | 0 | | 1 | | 138% | 80 | 120 | 0% | S |
| Strontium | A | mg/L | 0.0001296 | 0.0001296 | | 0.0001 | 0 | 0 | | 0.001 | | 130% | 80 | 120 | 0% | S |
| Thallium | A | mg/L | 0.0001264 | 0.0001264 | | 0.0001 | 0 | 0 | | 0.001 | | 126% | 80 | 120 | 0% | S |
| Thorium | A | mg/L | 0.00008705 | 0.00008705 | | 0.0001 | 0 | 0 | | 0.05 | | 87% | 80 | 120 | 0% | |
| Tin | A | mg/L | -0.002374 | -0.002374 | | 0.0001 | 0 | 0 | | 0.001 | | -2374% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.0001422 | 0.0001422 | | 0.0001 | 0 | 0 | | 0.001 | | 142% | 80 | 120 | 0% | S |
| Uranium | A | mg/L | 0.0001186 | 0.0001186 | | 0.0001 | 0 | 0 | | 0.001 | | 119% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.00008593 | 0.00008593 | | 0.0001 | 0 | 0 | | 0.005 | | 86% | 80 | 120 | 0% | |
| Zinc | A | mg/L | -0.0002346 | -0.0002346 | | 0.0001 | 0 | 0 | | 0.01 | | -235% | 80 | 120 | 0% | S |
| Iron, Ferrous | C | mg/L | 0.002979 | 0.002979 | | 0.0001 | 0 | 0 | | 0.01 | 5 | 2979% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.0004684 | -0.0004684 | | 0.00856 | 0 | 0 | | 0.214 | 0.9 | -5% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|--------------------|------------|-----------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985112 | 0.5 PPB STD | ICPMS-6020B-C Cal4 | | | 1/18/2022 7:05:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0002768 | 0.0002768 | | 0.0005 | 0 | 0 | | 0.01 | | 55% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.0005331 | 0.0005331 | | 0.0005 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0005133 | 0.0005133 | | 0.0005 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0005351 | 0.0005351 | | 0.0005 | 0 | 0 | | 0.0003 | | 107% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.0005452 | 0.0005452 | | 0.0005 | 0 | 0 | | 0.001 | | 109% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.0003914 | 0.0003914 | | 0.0005 | 0 | 0 | | 0.1 | | 78% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.0005889 | 0.0005889 | | 0.0005 | 0 | 0 | | 0.001 | | 118% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.1386 | 0.1386 | | 0.125 | 0 | 0 | | 1 | | 111% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.0004588 | 0.0004588 | | 0.0005 | 0 | 0 | | 0.001 | | 92% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.0005725 | 0.0005725 | | 0.0005 | 0 | 0 | | 0.001 | | 115% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0006045 | 0.0006045 | | 0.0005 | 0 | 0 | | 0.005 | | 121% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.0142 | 0.0142 | | 0.0125 | 0 | 0 | | 0.01 | | 114% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.0005654 | 0.0005654 | | 0.0005 | 0 | 0 | | 0.001 | | 113% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.1311 | 0.1311 | | 0.125 | 0 | 0 | | 1 | | 105% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.0005579 | 0.0005579 | | 0.0005 | 0 | 0 | | 0.001 | | 112% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 9.246E-06 | 9.246E-06 | | 0.00001 | 0 | 0 | | 0.001 | | 92% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.000545 | 0.000545 | | 0.0005 | 0 | 0 | | 0.001 | | 109% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0005327 | 0.0005327 | | 0.0005 | 0 | 0 | | 0.005 | | 107% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.1321 | 0.1321 | | 0.125 | 0 | 0 | | 1 | | 106% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.0005967 | 0.0005967 | | 0.0005 | 0 | 0 | | 0.005 | | 119% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.002215 | 0.002215 | | 0.002 | 0 | 0 | | 0.1 | | 111% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.0002498 | 0.0002498 | | 0.0002 | 0 | 0 | | 0.001 | | 125% | 80 | 120 | 0% | S |
| Sodium | A | mg/L | 0.1452 | 0.1452 | | 0.125 | 0 | 0 | | 1 | | 116% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.0006022 | 0.0006022 | | 0.0005 | 0 | 0 | | 0.001 | | 120% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.0005898 | 0.0005898 | | 0.0005 | 0 | 0 | | 0.001 | | 118% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.0004519 | 0.0004519 | | 0.0005 | 0 | 0 | | 0.05 | | 90% | 80 | 120 | 0% | |
| Tin | A | mg/L | -0.001898 | -0.001898 | | 0.0005 | 0 | 0 | | 0.001 | | -380% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.0005751 | 0.0005751 | | 0.0005 | 0 | 0 | | 0.001 | | 115% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.000555 | 0.000555 | | 0.0005 | 0 | 0 | | 0.001 | | 111% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.000484 | 0.000484 | | 0.0005 | 0 | 0 | | 0.005 | | 97% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.0003661 | 0.0003661 | | 0.0005 | 0 | 0 | | 0.01 | | 73% | 80 | 120 | 0% | S |
| Iron, Ferrous | C | mg/L | 0.0142 | 0.0142 | | 0.0005 | 0 | 0 | | 0.01 | 5 | 2840% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.0047401 | 0.0047401 | | 0.0428 | 0 | 0 | | 0.214 | 0.9 | 11% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-----------|---------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985113 | 1 PPB STD | ICPMS-6020B-C | Ca15 | | 1/18/2022 7:11:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0007413 | 0.0007413 | | 0.001 | 0 | 0 | | 0.01 | | 74% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.001059 | 0.001059 | | 0.001 | 0 | 0 | | 0.001 | | 106% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.001133 | 0.001133 | | 0.001 | 0 | 0 | | 0.001 | | 113% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.001101 | 0.001101 | | 0.001 | 0 | 0 | | 0.0003 | | 110% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.001219 | 0.001219 | | 0.001 | 0 | 0 | | 0.001 | | 122% | 80 | 120 | 0% | S |
| Boron | A | mg/L | 0.001268 | 0.001268 | | 0.001 | 0 | 0 | | 0.1 | | 127% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.001161 | 0.001161 | | 0.001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.2864 | 0.2864 | | 0.25 | 0 | 0 | | 1 | | 115% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.001015 | 0.001015 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.001196 | 0.001196 | | 0.001 | 0 | 0 | | 0.001 | | 120% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.001223 | 0.001223 | | 0.001 | 0 | 0 | | 0.005 | | 122% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.02987 | 0.02987 | | 0.025 | 0 | 0 | | 0.01 | | 119% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.001211 | 0.001211 | | 0.001 | 0 | 0 | | 0.001 | | 121% | 80 | 120 | 0% | S |
| Magnesium | A | mg/L | 0.2743 | 0.2743 | | 0.25 | 0 | 0 | | 1 | | 110% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.00116 | 0.00116 | | 0.001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.00002405 | 0.00002405 | | 0.00002 | 0 | 0 | | 0.001 | | 120% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.001105 | 0.001105 | | 0.001 | 0 | 0 | | 0.001 | | 110% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.001177 | 0.001177 | | 0.001 | 0 | 0 | | 0.005 | | 118% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.2814 | 0.2814 | | 0.25 | 0 | 0 | | 1 | | 113% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.001104 | 0.001104 | | 0.001 | 0 | 0 | | 0.005 | | 110% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.003809 | 0.003809 | | 0.004 | 0 | 0 | | 0.1 | | 95% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.000501 | 0.000501 | | 0.0004 | 0 | 0 | | 0.001 | | 125% | 80 | 120 | 0% | S |
| Sodium | A | mg/L | 0.3072 | 0.3072 | | 0.25 | 0 | 0 | | 1 | | 123% | 80 | 120 | 0% | S |
| Strontium | A | mg/L | 0.001248 | 0.001248 | | 0.001 | 0 | 0 | | 0.001 | | 125% | 80 | 120 | 0% | S |
| Thallium | A | mg/L | 0.001243 | 0.001243 | | 0.001 | 0 | 0 | | 0.001 | | 124% | 80 | 120 | 0% | S |
| Thorium | A | mg/L | 0.00102 | 0.00102 | | 0.001 | 0 | 0 | | 0.05 | | 102% | 80 | 120 | 0% | |
| Tin | A | mg/L | -0.001285 | -0.001285 | | 0.001 | 0 | 0 | | 0.001 | | -128% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.001096 | 0.001096 | | 0.001 | 0 | 0 | | 0.001 | | 110% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.001158 | 0.001158 | | 0.001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.001129 | 0.001129 | | 0.001 | 0 | 0 | | 0.005 | | 113% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.00103 | 0.00103 | | 0.001 | 0 | 0 | | 0.01 | | 103% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 0.02987 | 0.02987 | | 0.001 | 0 | 0 | | 0.01 | 5 | 2987% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.00815126 | 0.00815126 | | 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 | | | | | |
|----------|------------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985114 | 10 PPB STD | ICPMS-6020B-C Cal6 | | | 1/18/2022 7:17:2 | 1 | R373351 | | 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 | | | | | |
|----------|------------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985115 | 50 PPB STD | ICPMS-6020B-C Cal7 | | | 1/18/2022 7:23:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| | | | | | | | | | | | | | | | | |
|------------|---|------|-----------|-----------|--|-------|---|---|--|--------|--|------|----|-----|----|--|
| Aluminum | A | mg/L | 0.04954 | 0.04954 | | 0.05 | 0 | 0 | | 0.01 | | 99% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.0526 | 0.0526 | | 0.05 | 0 | 0 | | 0.001 | | 105% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05147 | 0.05147 | | 0.05 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04963 | 0.04963 | | 0.05 | 0 | 0 | | 0.0003 | | 99% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04946 | 0.04946 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.0505 | 0.0505 | | 0.05 | 0 | 0 | | 0.1 | | 101% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.05144 | 0.05144 | | 0.05 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 13.63 | 13.63 | | 12.5 | 0 | 0 | | 1 | | 109% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.0521 | 0.0521 | | 0.05 | 0 | 0 | | 0.001 | | 104% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05027 | 0.05027 | | 0.05 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05208 | 0.05208 | | 0.05 | 0 | 0 | | 0.005 | | 104% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.286 | 1.286 | | 1.25 | 0 | 0 | | 0.01 | | 103% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.04882 | 0.04882 | | 0.05 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.69 | 12.69 | | 12.5 | 0 | 0 | | 1 | | 102% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05191 | 0.05191 | | 0.05 | 0 | 0 | | 0.001 | | 104% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009636 | 0.0009636 | | 0.001 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05441 | 0.05441 | | 0.05 | 0 | 0 | | 0.001 | | 109% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05248 | 0.05248 | | 0.05 | 0 | 0 | | 0.005 | | 105% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 12.82 | 12.82 | | 12.5 | 0 | 0 | | 1 | | 103% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05187 | 0.05187 | | 0.05 | 0 | 0 | | 0.005 | | 104% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2159 | 0.2159 | | 0.2 | 0 | 0 | | 0.1 | | 108% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02039 | 0.02039 | | 0.02 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 13.06 | 13.06 | | 12.5 | 0 | 0 | | 1 | | 104% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05138 | 0.05138 | | 0.05 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05293 | 0.05293 | | 0.05 | 0 | 0 | | 0.001 | | 106% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05243 | 0.05243 | | 0.05 | 0 | 0 | | 0.05 | | 105% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05038 | 0.05038 | | 0.05 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.05178 | 0.05178 | | 0.05 | 0 | 0 | | 0.001 | | 104% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04866 | 0.04866 | | 0.05 | 0 | 0 | | 0.001 | | 97% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.05193 | 0.05193 | | 0.05 | 0 | 0 | | 0.005 | | 104% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|------------|--------------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985115 | 50 PPB STD | ICPMS-6020B-C Cal7 | | | 1/18/2022 7:23:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Zinc | A | mg/L | 0.05273 | 0.05273 | | 0.05 | 0 | 0 | | 0.01 | | 105% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.286 | 1.286 | | 0.05 | 0 | 0 | | 0.01 | 5 | 2572% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.462026 | 0.462026 | | 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 | | | | | |
|------------|-------------|--------------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985116 | 100 PPB STD | ICPMS-6020B-C Cal8 | | | 1/18/2022 7:29:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.1002 | 0.1002 | | 0.1 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.0987 | 0.0987 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.09926 | 0.09926 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.1002 | 0.1002 | | 0.1 | 0 | 0 | | 0.0003 | | 100% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.1003 | 0.1003 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.09975 | 0.09975 | | 0.1 | 0 | 0 | | 0.1 | | 100% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.09928 | 0.09928 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 27.28 | 27.28 | | 25 | 0 | 0 | | 1 | | 109% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.09895 | 0.09895 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.09986 | 0.09986 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.09896 | 0.09896 | | 0.1 | 0 | 0 | | 0.005 | | 99% | 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 | 0.1006 | 0.1006 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 25.98 | 25.98 | | 25 | 0 | 0 | | 1 | | 104% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.09904 | 0.09904 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.002018 | 0.002018 | | 0.002 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.0978 | 0.0978 | | 0.1 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.09876 | 0.09876 | | 0.1 | 0 | 0 | | 0.005 | | 99% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 25.3 | 25.3 | | 25 | 0 | 0 | | 1 | | 101% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.09906 | 0.09906 | | 0.1 | 0 | 0 | | 0.005 | | 99% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.392 | 0.392 | | 0.4 | 0 | 0 | | 0.1 | | 98% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.0398 | 0.0398 | | 0.04 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 25.78 | 25.78 | | 25 | 0 | 0 | | 1 | | 103% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.09931 | 0.09931 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.09853 | 0.09853 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.09878 | 0.09878 | | 0.1 | 0 | 0 | | 0.05 | | 99% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.09985 | 0.09985 | | 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 | | | | | |
|-----------------|-------------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985116 | 100 PPB STD | ICPMS-6020B-C Cal8 | | | 1/18/2022 7:29:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Titanium | A | mg/L | 0.09911 | 0.09911 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.1007 | 0.1007 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.09903 | 0.09903 | | 0.1 | 0 | 0 | | 0.005 | | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.09864 | 0.09864 | | 0.1 | 0 | 0 | | 0.01 | | 99% | 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 | 0.83888 | 0.83888 | | 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 | | | | | |
|------------|--------------|---------------------|------------|------------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985117 | 1000 PPB STD | ICPMS-6020B-C Cal10 | | | 1/18/2022 7:35:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.9928 | 0.9928 | | 1 | 0 | 0 | | 0.01 | | 99% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.00009293 | 0.00009293 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.9569 | 0.9569 | | 1 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.9185 | 0.9185 | | 1 | 0 | 0 | | 0.0003 | | 92% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.973 | 0.973 | | 1 | 0 | 0 | | 0.001 | | 97% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.9675 | 0.9675 | | 1 | 0 | 0 | | 0.1 | | 97% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.9158 | 0.9158 | | 1 | 0 | 0 | | 0.001 | | 92% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 48.58 | 48.58 | | 50 | 0 | 0 | | 1 | | 97% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.9483 | 0.9483 | | 1 | 0 | 0 | | 0.001 | | 95% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 1.028 | 1.028 | | 1 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.9682 | 0.9682 | | 1 | 0 | 0 | | 0.005 | | 97% | 90 | 110 | 0% | |
| Iron | A | mg/L | 6.016 | 6.016 | | 6 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.00001124 | 0.00001124 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Magnesium | A | mg/L | 49.46 | 49.46 | | 50 | 0 | 0 | | 1 | | 99% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.9626 | 0.9626 | | 1 | 0 | 0 | | 0.001 | | 96% | 90 | | 0% | |
| Mercury | A | mg/L | 0.00001182 | 0.00001182 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.0000609 | 0.0000609 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Nickel | A | mg/L | 1.012 | 1.012 | | 1 | 0 | 0 | | 0.005 | | 101% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 49.77 | 49.77 | | 50 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.9115 | 0.9115 | | 1 | 0 | 0 | | 0.005 | | 91% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.001486 | 0.001486 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.4008 | 0.4008 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Sodium | A | mg/L | 49.47 | 49.47 | | 50 | 0 | 0 | | 1 | | 99% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 1.017 | 1.017 | | 1 | 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 | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985117 | 1000 PPB STD | ICPMS-6020B-C | Cal10 | | 1/18/2022 7:35:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Thallium | A | mg/L | 0.9403 | 0.9403 | | 1 | 0 | 0 | | 0.001 | | 94% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.9556 | 0.9556 | | 1 | 0 | 0 | | 0.05 | | 96% | 90 | 110 | 0% | |
| Tin | A | mg/L | -0.002451 | -0.002451 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00587 | 0.00587 | | 1 | 0 | 0 | | 0.001 | | 1% | 90 | 110 | 0% | S |
| Uranium | A | mg/L | 0.9837 | 0.9837 | | 1 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.9506 | 0.9506 | | 1 | 0 | 0 | | 0.005 | | 95% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.9716 | 0.9716 | | 1 | 0 | 0 | | 0.01 | | 97% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 6.016 | 6.016 | | 0 | 0 | 0 | | 0.01 | 5 | 0% | | | 0% | |
| Silicon as SiO2 | C | mg/L | 0.00318004 | 0.00318004 | | 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 | | | | | |
|------------|-----------------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14985118 | 100 ppb Bromine | ICPMS-6020-W- | SAMP | | 1/18/2022 7:40:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.007645 | 0.007645 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00002427 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.0001667 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000111 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0.0001474 | 0.0001474 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cadmium | A | mg/L | 0.00008901 | 0.00008901 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 2.298E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 7.081E-07 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00008155 | 0.00008155 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.000157 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 1.581E-06 | 0 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001208 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 4.617E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001241 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.0001677 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0002045 | 0.0002045 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silicon | A | mg/L | -0.0003608 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.0002236 | 0.0002236 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 0.0001013 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0001354 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00005373 | 0 | | 0 | 0 | 0 | 0.0002974 | 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 | | | | | |
|---------------|-----------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985118 | 100 ppb Bromine | ICPMS-6020-W- | SAMP | | 1/18/2022 7:40:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Uranium | A | mg/L | 0.0001489 | 0.0001489 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Boron | B | mg/L | 0.006119 | 0.006119 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 0.008743 | 0 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0008477 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Iron, Ferrous | B | mg/L | 0.0008477 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Lithium | B | mg/L | 0.004708 | 0 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | 0 | 0 | 0% | L |
| Magnesium | B | mg/L | 0.003977 | 0 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.538 | 0.538 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 0.05681 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | L |
| Thorium | B | mg/L | 0.0003504 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | B | mg/L | -0.002525 | 0 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.00008902 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | 0.0002141 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|--------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14985119 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 7:46:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0002359 | 0 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 6.567E-06 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00003347 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00001262 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0.00002906 | 0 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 4.728E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 1.836E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -8.399E-05 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00001118 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 6.719E-06 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 2.191E-06 | 0 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 6.065E-06 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 1.916E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00000844 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.00005159 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00005657 | 0 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | -7.11E-06 | 0 | | 0 | 0 | 0 | 0.0146174 | 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 | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985119 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 7:46:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silver | A | mg/L | 0.00001731 | 0.00001731 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 6.844E-06 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0000255 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00004538 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001816 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.001759 | 0 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | L |
| Calcium | B | mg/L | 0.001085 | 0 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | -7.234E-05 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Iron, Ferrous | B | mg/L | -7.234E-05 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Lithium | B | mg/L | 0.001675 | 0 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | 0 | 0 | 0% | L |
| Magnesium | B | mg/L | -0.0003099 | 0 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.003341 | 0 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 0.001751 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | L |
| Thorium | B | mg/L | 0.00006792 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | B | mg/L | -0.002669 | 0 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | -1.398E-05 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | -0.0003736 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|-----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985120 | QCS | ICPMS-6020-W- | ICV | | 1/18/2022 7:52:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.2504 | 0.2504 | | 0.25 | 0 | 0 | 0.0006548 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.04764 | 0.04764 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 95% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.04929 | 0.04929 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05078 | 0.05078 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.0247 | 0.0247 | | 0.025 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05173 | 0.05173 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 103% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.02527 | 0.02527 | | 0.025 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 2.592 | 2.592 | | 2.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 104% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05333 | 0.05333 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 107% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05122 | 0.05122 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05153 | 0.05153 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05315 | 0.05315 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Iron | A | mg/L | 0.2584 | 0.2584 | | 0.25 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 103% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|-------------------|------------|----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985120 | QCS | ICPMS-6020-W- ICV | | | 1/18/2022 7:52:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lanthanum | A | mg/L | 0.05212 | 0.05212 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 104% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.04996 | 0.04996 | | 0.05 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 100% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 2.485 | 2.485 | | 2.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 99% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.2557 | 0.2557 | | 0.25 | 0 | 0 | 0.0001444 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.001008 | 0.001008 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 101% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05103 | 0.05103 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05147 | 0.05147 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 2.504 | 2.504 | | 2.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 100% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05004 | 0.05004 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.4749 | 0.4749 | | 0.5 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 95% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02694 | 0.02694 | | 0.025 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 108% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 2.529 | 2.529 | | 2.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 101% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05146 | 0.05146 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05308 | 0.05308 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05318 | 0.05318 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 106% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04998 | 0.04998 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 100% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.0473 | 0.0473 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05353 | 0.05353 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 107% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04967 | 0.04967 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05148 | 0.05148 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 103% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.2584 | 0.2584 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|-----------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985121 | CCV | ICPMS-6020-W- CCV | | | 1/18/2022 7:58:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04926 | 0.04926 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.05211 | 0.05211 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 104% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05095 | 0.05095 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05143 | 0.05143 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04955 | 0.04955 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05128 | 0.05128 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 103% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.04896 | 0.04896 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 13.18 | 13.18 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 105% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05157 | 0.05157 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 103% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|-------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985121 | CCV | ICPMS-6020-W- CCV | | | 1/18/2022 7:58:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Chromium | A | mg/L | 0.05253 | 0.05253 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04983 | 0.04983 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05158 | 0.05158 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.296 | 1.296 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 100% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05071 | 0.05071 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 101% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.5879 | 0.5879 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 94% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.2 | 12.2 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 98% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05036 | 0.05036 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009809 | 0.0009809 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 98% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05362 | 0.05362 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 107% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05159 | 0.05159 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 12.53 | 12.53 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 100% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.04919 | 0.04919 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2143 | 0.2143 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 107% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02053 | 0.02053 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 103% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.55 | 12.55 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 100% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05121 | 0.05121 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05148 | 0.05148 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05129 | 0.05129 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 103% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05277 | 0.05277 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 106% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.05028 | 0.05028 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04903 | 0.04903 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 98% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.05052 | 0.05052 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 101% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05082 | 0.05082 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 102% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.296 | 1.296 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|-----------|--------|--------------------|------------|---------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14985122 | Rinse | ICPMS-6020-W- SAMP | | | 1/18/2022 8:03:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0003318 | 0 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00001256 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00001893 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 9.313E-06 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0.00001173 | 0 | | 0 | 0 | 0 | 7.465E-05 | 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 | | | | | |
|---------------|--------|---------------|------------|----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985122 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 8:03:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cadmium | A | mg/L | 9.314E-07 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 3.057E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -0.0001293 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 9.123E-06 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.00001805 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 1.322E-06 | 0 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 7.346E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.00001096 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 5.245E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001446 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -1.269E-05 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0000252 | 0 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | -0.000511 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.000015 | 0.000015 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 5.691E-06 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00009264 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | -7.005E-06 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001166 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.000782 | 0 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | L |
| Calcium | B | mg/L | 0.001052 | 0 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | -0.0001782 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Iron, Ferrous | B | mg/L | -0.0001782 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Lithium | B | mg/L | 0.001747 | 0 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | 0 | 0 | 0% | L |
| Magnesium | B | mg/L | 0.0004809 | 0 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.005133 | 0 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 0.00831 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | L |
| Thorium | B | mg/L | 0.00008572 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | B | mg/L | -0.002689 | 0 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.00000878 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | -0.0003367 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|----------|------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985123 | 10 PPB STD | ICPMS-6020B-C | Cal6 | | 1/18/2022 8:09:3 | 1 | R373351 | | 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 | | | | | |
|-----------------|------------|--------------------|------------|-----------|------------------|--------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985123 | 10 PPB STD | ICPMS-6020B-C Cal6 | | | 1/18/2022 8:09:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.01016 | 0.01016 | | 0.01 | 0 | 0 | | 0.01 | | 102% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.0108 | 0.0108 | | 0.01 | 0 | 0 | | 0.001 | | 108% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.01062 | 0.01062 | | 0.01 | 0 | 0 | | 0.001 | | 106% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.01046 | 0.01046 | | 0.01 | 0 | 0 | | 0.0003 | | 105% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.01099 | 0.01099 | | 0.01 | 0 | 0 | | 0.001 | | 110% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.01166 | 0.01166 | | 0.01 | 0 | 0 | | 0.1 | | 117% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.01123 | 0.01123 | | 0.01 | 0 | 0 | | 0.001 | | 112% | 90 | 110 | 0% | S |
| Calcium | A | mg/L | 3.124 | 3.124 | | 2.5 | 0 | 0 | | 1 | | 125% | 90 | 110 | 0% | S |
| Chromium | A | mg/L | 0.01102 | 0.01102 | | 0.01 | 0 | 0 | | 0.001 | | 110% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.01143 | 0.01143 | | 0.01 | 0 | 0 | | 0.001 | | 114% | 90 | 110 | 0% | S |
| Copper | A | mg/L | 0.01158 | 0.01158 | | 0.01 | 0 | 0 | | 0.005 | | 116% | 90 | 110 | 0% | S |
| Iron | A | mg/L | 0.2839 | 0.2839 | | 0.25 | 0 | 0 | | 0.01 | | 114% | 90 | 110 | 0% | S |
| Lanthanum | A | mg/L | 0.01084 | 0.01084 | | 0.01 | 0 | 0 | | 0.001 | | 108% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.01117 | 0.01117 | | 0.01 | 0 | 0 | | 0.001 | | 112% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 2.858 | 2.858 | | 2.5 | 0 | 0 | | 1 | | 114% | 90 | 110 | 0% | S |
| Manganese | A | mg/L | 0.01099 | 0.01099 | | 0.01 | 0 | 0 | | 0.001 | | 110% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.000215 | 0.000215 | | 0.0002 | 0 | 0 | | 0.001 | | 107% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.01118 | 0.01118 | | 0.01 | 0 | 0 | | 0.001 | | 112% | 90 | 110 | 0% | S |
| Nickel | A | mg/L | 0.01168 | 0.01168 | | 0.01 | 0 | 0 | | 0.005 | | 117% | 90 | 110 | 0% | S |
| Potassium | A | mg/L | 2.782 | 2.782 | | 2.5 | 0 | 0 | | 1 | | 111% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.01212 | 0.01212 | | 0.01 | 0 | 0 | | 0.005 | | 121% | 90 | 110 | 0% | S |
| Silicon | A | mg/L | 0.05002 | 0.05002 | | 0.04 | 0 | 0 | | 0.1 | | 125% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.004645 | 0.004645 | | 0.004 | 0 | 0 | | 0.001 | | 116% | 90 | 110 | 0% | S |
| Sodium | A | mg/L | 2.828 | 2.828 | | 2.5 | 0 | 0 | | 1 | | 113% | 90 | 110 | 0% | S |
| Strontium | A | mg/L | 0.0119 | 0.0119 | | 0.01 | 0 | 0 | | 0.001 | | 119% | 90 | 110 | 0% | S |
| Thallium | A | mg/L | 0.01187 | 0.01187 | | 0.01 | 0 | 0 | | 0.001 | | 119% | 90 | 110 | 0% | S |
| Thorium | A | mg/L | 0.01105 | 0.01105 | | 0.01 | 0 | 0 | | 0.05 | | 110% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.00914 | 0.00914 | | 0.01 | 0 | 0 | | 0.001 | | 91% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.01028 | 0.01028 | | 0.01 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.01095 | 0.01095 | | 0.01 | 0 | 0 | | 0.001 | | 109% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.01084 | 0.01084 | | 0.01 | 0 | 0 | | 0.005 | | 108% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.01065 | 0.01065 | | 0.01 | 0 | 0 | | 0.01 | | 106% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.2839 | 0.2839 | | 0.01 | 0 | 0 | | 0.01 | 5 | 2839% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.1070428 | 0.1070428 | | 0.856 | 0 | 0 | | 0.214 | 0.9 | 13% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|-------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985124 | QCS | ICPMS-6020-W- ICV | | | 1/18/2022 8:15:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.2529 | 0.2529 | | 0.25 | 0 | 0 | 0.0006548 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.04478 | 0.04478 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 90% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.0487 | 0.0487 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04766 | 0.04766 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.02482 | 0.02482 | | 0.025 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05242 | 0.05242 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 105% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.02426 | 0.02426 | | 0.025 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 2.586 | 2.586 | | 2.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 103% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05251 | 0.05251 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 105% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04972 | 0.04972 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04943 | 0.04943 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05197 | 0.05197 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Iron | A | mg/L | 0.265 | 0.265 | | 0.25 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 106% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05131 | 0.05131 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 103% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.05037 | 0.05037 | | 0.05 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 101% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 2.482 | 2.482 | | 2.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 99% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.2511 | 0.2511 | | 0.25 | 0 | 0 | 0.0001444 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009524 | 0.0009524 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 95% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05007 | 0.05007 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 100% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05073 | 0.05073 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 2.438 | 2.438 | | 2.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 98% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.04913 | 0.04913 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.4613 | 0.4613 | | 0.5 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 92% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02645 | 0.02645 | | 0.025 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 106% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 2.493 | 2.493 | | 2.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 100% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05193 | 0.05193 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05208 | 0.05208 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05205 | 0.05205 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 104% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04655 | 0.04655 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 93% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.0449 | 0.0449 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 90% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05091 | 0.05091 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 102% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04963 | 0.04963 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05255 | 0.05255 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 105% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.265 | 0.265 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|--------|------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985125 | CCV | ICPMS-6020-W-CCV | | | 1/18/2022 8:21:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04934 | 0.04934 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.05213 | 0.05213 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 104% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05032 | 0.05032 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05008 | 0.05008 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.05032 | 0.05032 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05294 | 0.05294 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 106% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.04892 | 0.04892 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 13.95 | 13.95 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 112% | 90 | 110 | 0% | S |
| Cerium | A | mg/L | 0.05094 | 0.05094 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05157 | 0.05157 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05257 | 0.05257 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05166 | 0.05166 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.29 | 1.29 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 99% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.04995 | 0.04995 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 100% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.589 | 0.589 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 94% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.74 | 12.74 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 102% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05208 | 0.05208 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009815 | 0.0009815 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 98% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05328 | 0.05328 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 107% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05161 | 0.05161 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 12.96 | 12.96 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 104% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.04917 | 0.04917 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2079 | 0.2079 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 104% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02091 | 0.02091 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 105% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.89 | 12.89 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 103% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05172 | 0.05172 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05063 | 0.05063 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05166 | 0.05166 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 103% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05207 | 0.05207 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 104% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.05233 | 0.05233 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04957 | 0.04957 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 99% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.05113 | 0.05113 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 102% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05047 | 0.05047 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 101% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.29 | 1.29 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14985126 | CCB | ICPMS-6020-W- | CCB | | 1/18/2022 8:26:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0004617 | -0.0004617 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 5.763E-06 | 5.763E-06 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | 0.00001569 | 0.00001569 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | -1.693E-06 | -1.693E-06 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | -2.651E-06 | -2.651E-06 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | 0.0006225 | 0.0006225 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | 1.141E-06 | 1.141E-06 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | 0.0003579 | 0.0003579 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | 6.11E-07 | 6.11E-07 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | -0.0001279 | -0.0001279 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | -7.006E-07 | -7.006E-07 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | 0.00003699 | 0.00003699 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | -0.0005201 | -0.0005201 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | 8.318E-07 | 8.318E-07 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lithium | A | mg/L | 0.000697 | 0.000697 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | | 0% |
| Magnesium | A | mg/L | -0.0007442 | -0.0007442 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | -4.06E-06 | -4.06E-06 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 7.584E-06 | 7.584E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | | 0% |
| Molybdenum | A | mg/L | 0.00000476 | 0.00000476 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | -0.0000258 | -0.0000258 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | -0.007135 | -0.007135 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.00004721 | 0.00004721 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | -0.0006428 | -0.0006428 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | 0.00001143 | 0.00001143 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | -0.01252 | -0.01252 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | -6.647E-09 | -6.647E-09 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.00009974 | 0.00009974 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.00008608 | 0.00008608 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | -0.0004011 | -0.0004011 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.00003809 | 0.00003809 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 5.482E-06 | 5.482E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | 3.183E-06 | 3.183E-06 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | -0.0001983 | -0.0001983 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | -0.0005201 | -0.0005201 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|----------|----------|-----------|--------|--------|--------|--------|-----|------|------|---|
| 14985127 | 0.10 PPB STD | ICPMS-6020B-C | Cal3 | | 1/18/2022 8:32:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0002796 | -0.0002796 | | 0.0001 | 0 | 0 | | 0.01 | | -280% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.0001295 | 0.0001295 | | 0.0001 | 0 | 0 | | 0.001 | | 130% | 80 | 120 | 0% | S |
| Arsenic | A | mg/L | 0.0001182 | 0.0001182 | | 0.0001 | 0 | 0 | | 0.001 | | 118% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0001175 | 0.0001175 | | 0.0001 | 0 | 0 | | 0.0003 | | 118% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.0001346 | 0.0001346 | | 0.0001 | 0 | 0 | | 0.001 | | 135% | 80 | 120 | 0% | S |
| Boron | A | mg/L | 0.0005309 | 0.0005309 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0001343 | 0.0001343 | | 0.0001 | 0 | 0 | | 0.001 | | 134% | 80 | 120 | 0% | S |
| Calcium | A | mg/L | 0.03151 | 0.03151 | | 0.025 | 0 | 0 | | 1 | | 126% | 80 | 120 | 0% | S |
| Chromium | A | mg/L | 0.00001058 | 0.00001058 | | 0.0001 | 0 | 0 | | 0.001 | | 11% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.0001113 | 0.0001113 | | 0.0001 | 0 | 0 | | 0.001 | | 111% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0001408 | 0.0001408 | | 0.0001 | 0 | 0 | | 0.005 | | 141% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.002619 | 0.002619 | | 0.0025 | 0 | 0 | | 0.01 | | 105% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.0001204 | 0.0001204 | | 0.0001 | 0 | 0 | | 0.001 | | 120% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.02866 | 0.02866 | | 0.025 | 0 | 0 | | 1 | | 115% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.0001018 | 0.0001018 | | 0.0001 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 4.278E-06 | 4.278E-06 | | 0.000002 | 0 | 0 | | 0.001 | | 214% | 80 | 120 | 0% | S |
| Molybdenum | A | mg/L | 0.0001103 | 0.0001103 | | 0.0001 | 0 | 0 | | 0.001 | | 110% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0001207 | 0.0001207 | | 0.0001 | 0 | 0 | | 0.005 | | 121% | 80 | 120 | 0% | S |
| Potassium | A | mg/L | 0.02973 | 0.02973 | | 0.025 | 0 | 0 | | 1 | | 119% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.0001086 | 0.0001086 | | 0.0001 | 0 | 0 | | 0.005 | | 109% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.0003267 | 0.0003267 | | 0.0004 | 0 | 0 | | 0.1 | | 82% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.00005472 | 0.00005472 | | 0.00004 | 0 | 0 | | 0.001 | | 137% | 80 | 120 | 0% | S |
| Sodium | A | mg/L | 0.02923 | 0.02923 | | 0.025 | 0 | 0 | | 1 | | 117% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.0001227 | 0.0001227 | | 0.0001 | 0 | 0 | | 0.001 | | 123% | 80 | 120 | 0% | S |
| Thallium | A | mg/L | 0.0001577 | 0.0001577 | | 0.0001 | 0 | 0 | | 0.001 | | 158% | 80 | 120 | 0% | S |
| Thorium | A | mg/L | 0.0001369 | 0.0001369 | | 0.0001 | 0 | 0 | | 0.05 | | 137% | 80 | 120 | 0% | S |
| Tin | A | mg/L | -0.002362 | -0.002362 | | 0.0001 | 0 | 0 | | 0.001 | | -2362% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.0001599 | 0.0001599 | | 0.0001 | 0 | 0 | | 0.001 | | 160% | 80 | 120 | 0% | S |
| Uranium | A | mg/L | 0.0001161 | 0.0001161 | | 0.0001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0001136 | 0.0001136 | | 0.0001 | 0 | 0 | | 0.005 | | 114% | 80 | 120 | 0% | |
| Zinc | A | mg/L | -0.0002457 | -0.0002457 | | 0.0001 | 0 | 0 | | 0.01 | | -246% | 80 | 120 | 0% | S |
| Iron, Ferrous | C | mg/L | 0.002619 | 0.002619 | | 0.0001 | 0 | 0 | | 0.01 | 5 | 2619% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.00069914 | 0.00069914 | | 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 | | | | | |
|---------------|--------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985128 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 9:19:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0004589 | 0 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | -2.113E-06 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00001007 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | -2.148E-06 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 8.083E-06 | 0 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | -9.183E-07 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 6.263E-07 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -0.0001538 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | -7.424E-07 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.00001992 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 5.819E-07 | 0 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 2.756E-07 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | -5.785E-06 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | -3.613E-07 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | -5.867E-06 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -0.0000191 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00001813 | 0 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | -0.0002711 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 3.409E-06 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 3.345E-07 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 3.753E-06 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 2.901E-06 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | -6.543E-08 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.0001322 | 0 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | -0.0005261 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Iron, Ferrous | B | mg/L | -0.0005261 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Lithium | B | mg/L | 0.0003008 | 0 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | 0 | 0 | 0% | L |
| Magnesium | B | mg/L | -0.0006257 | 0 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | -0.000314 | 0 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | -0.01731 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | L |
| Thorium | B | mg/L | 4.148E-06 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | B | mg/L | -0.0002899 | 0 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | -1.245E-05 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | -0.0004357 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|---------------|--------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985129 | BLANK | ICPMS-6020-W- | SAMP | | 1/18/2022 9:24:4 | 1 | R373351 | | 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 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | L |
| Cadmium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | 0 | 0 | 0% | L |
| Cerium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Lanthanum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lithium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | 0 | 0 | 0% | L |
| Magnesium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | 0 | 0 | 0% | L |
| Manganese | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | 0 | 0 | 0% | L |
| Selenium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | L |
| Strontium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | L |
| Titanium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|-----------------|---------------|--------------------|------------|------------|------------------|-----------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985130 | 0.025 PPB STD | ICPMS-6020B-C Cal1 | | | 1/18/2022 9:30:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -6.287E-06 | -6.287E-06 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00002083 | 0.00002083 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.00002624 | 0.00002624 | | 0.000025 | 0 | 0 | | 0.001 | | 105% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.00002 | 0.00002 | | 0.000025 | 0 | 0 | | 0.0003 | | 80% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.00001173 | 0.00001173 | | 0.000025 | 0 | 0 | | 0.001 | | 47% | 80 | 120 | 0% | S |
| Boron | A | mg/L | -3.706E-05 | -3.706E-05 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00003387 | 0.00003387 | | 0.000025 | 0 | 0 | | 0.001 | | 135% | 80 | 120 | 0% | S |
| Calcium | A | mg/L | 0.007203 | 0.007203 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Chromium | A | mg/L | 4.089E-06 | 4.089E-06 | | 0.000025 | 0 | 0 | | 0.001 | | 16% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.00001787 | 0.00001787 | | 0.000025 | 0 | 0 | | 0.001 | | 71% | 80 | 120 | 0% | S |
| Copper | A | mg/L | -5.913E-06 | -5.913E-06 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Iron | A | mg/L | 0.0006327 | 0.0006327 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Lanthanum | A | mg/L | 0.00002306 | 0.00002306 | | 0.000025 | 0 | 0 | | 0.001 | | 92% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.000024 | 0.000024 | | 0.000025 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.006598 | 0.006598 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Manganese | A | mg/L | 0.00002693 | 0.00002693 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Mercury | A | mg/L | 2.086E-06 | 2.086E-06 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00002467 | 0.00002467 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Nickel | A | mg/L | 0.00002176 | 0.00002176 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.003803 | 0.003803 | | 0.00625 | 0 | 0 | | 1 | | 61% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 8.848E-07 | 8.848E-07 | | 0.000025 | 0 | 0 | | 0.005 | | 4% | 80 | 120 | 0% | S |
| Silicon | A | mg/L | 0.0001578 | 0.0001578 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.00001249 | 0.00001249 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Sodium | A | mg/L | 0.002419 | 0.002419 | | 0.00625 | 0 | 0 | | 1 | | 39% | 80 | 120 | 0% | S |
| Strontium | A | mg/L | 0.00002844 | 0.00002844 | | 0 | 0 | 0 | | 0.001 | | 0% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.00002567 | 0.00002567 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00001788 | 0.00001788 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |
| Tin | A | mg/L | -0.002311 | -0.002311 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00004033 | 0.00004033 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.00002299 | 0.00002299 | | 0.000025 | 0 | 0 | | 0.001 | | 92% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.00005786 | 0.00005786 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | -2.536E-05 | -2.536E-05 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.0006327 | 0.0006327 | | 0.000025 | 0 | 0 | | 0.01 | 5 | 2531% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.00033769 | 0.00033769 | | 0.0000535 | 0 | 0 | | 0.214 | 0.9 | 631% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985131 | 0.05 PPB STD | ICPMS-6020B-C | Cal2 | | 1/18/2022 9:36:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.00003068 | 0.00003068 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00005555 | 0.00005555 | | 0.00005 | 0 | 0 | | 0.001 | | 111% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.00005802 | 0.00005802 | | 0.00005 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.00005321 | 0.00005321 | | 0.00005 | 0 | 0 | | 0.0003 | | 106% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.00007359 | 0.00007359 | | 0.00005 | 0 | 0 | | 0.001 | | 147% | 80 | 120 | 0% | S |
| Boron | A | mg/L | -4.566E-05 | -4.566E-05 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00006027 | 0.00006027 | | 0.00005 | 0 | 0 | | 0.001 | | 121% | 80 | 120 | 0% | S |
| Calcium | A | mg/L | 0.01359 | 0.01359 | | 0.0125 | 0 | 0 | | 1 | | 109% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.00006624 | 0.00006624 | | 0.00005 | 0 | 0 | | 0.001 | | 132% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.00005089 | 0.00005089 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Copper | A | mg/L | 0.0000271 | 0.0000271 | | 0.00005 | 0 | 0 | | 0.005 | | 54% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.001406 | 0.001406 | | 0.00125 | 0 | 0 | | 0.01 | | 112% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.00005213 | 0.00005213 | | 0.00005 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.00005408 | 0.00005408 | | 0.00005 | 0 | 0 | | 0.001 | | 108% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.01281 | 0.01281 | | 0.0125 | 0 | 0 | | 1 | | 102% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.00005306 | 0.00005306 | | 0.00005 | 0 | 0 | | 0.001 | | 106% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 2.042E-06 | 2.042E-06 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00005706 | 0.00005706 | | 0.00005 | 0 | 0 | | 0.001 | | 114% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.00004372 | 0.00004372 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.0121 | 0.0121 | | 0.0125 | 0 | 0 | | 1 | | 97% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.00004163 | 0.00004163 | | 0.00005 | 0 | 0 | | 0.005 | | 83% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.0007726 | 0.0007726 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.00002665 | 0.00002665 | | 0.00002 | 0 | 0 | | 0.001 | | 133% | 80 | 120 | 0% | S |
| Sodium | A | mg/L | 0.01198 | 0.01198 | | 0.0125 | 0 | 0 | | 1 | | 96% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.00006168 | 0.00006168 | | 0.00005 | 0 | 0 | | 0.001 | | 123% | 80 | 120 | 0% | S |
| Thallium | A | mg/L | 0.00005241 | 0.00005241 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00003696 | 0.00003696 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |
| Tin | A | mg/L | -0.002277 | -0.002277 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00007257 | 0.00007257 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.00005101 | 0.00005101 | | 0.00005 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.00008363 | 0.00008363 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | 0.00002572 | 0.00002572 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.001406 | 0.001406 | | 0.00005 | 0 | 0 | | 0.01 | 5 | 2812% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.00165336 | 0.00165336 | | 0.00428 | 0 | 0 | | 0.214 | 0.9 | 39% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|----------|----------|-----------|--------|--------|--------|--------|-----|------|------|---|
| 14985132 | 0.10 PPB STD | ICPMS-6020B-C | Cal3 | | 1/18/2022 9:42:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.000178 | 0.000178 | | 0.0001 | 0 | 0 | | 0.01 | | 178% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.0001136 | 0.0001136 | | 0.0001 | 0 | 0 | | 0.001 | | 114% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0001343 | 0.0001343 | | 0.0001 | 0 | 0 | | 0.001 | | 134% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.0001075 | 0.0001075 | | 0.0001 | 0 | 0 | | 0.0003 | | 107% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.000115 | 0.000115 | | 0.0001 | 0 | 0 | | 0.001 | | 115% | 80 | 120 | 0% | |
| Boron | A | mg/L | -7.461E-05 | -7.461E-05 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0001298 | 0.0001298 | | 0.0001 | 0 | 0 | | 0.001 | | 130% | 80 | 120 | 0% | S |
| Calcium | A | mg/L | 0.03187 | 0.03187 | | 0.025 | 0 | 0 | | 1 | | 127% | 80 | 120 | 0% | S |
| Chromium | A | mg/L | 0.0001293 | 0.0001293 | | 0.0001 | 0 | 0 | | 0.001 | | 129% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.0001302 | 0.0001302 | | 0.0001 | 0 | 0 | | 0.001 | | 130% | 80 | 120 | 0% | S |
| Copper | A | mg/L | 0.0001043 | 0.0001043 | | 0.0001 | 0 | 0 | | 0.005 | | 104% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.003303 | 0.003303 | | 0.0025 | 0 | 0 | | 0.01 | | 132% | 80 | 120 | 0% | S |
| Lanthanum | A | mg/L | 0.0001248 | 0.0001248 | | 0.0001 | 0 | 0 | | 0.001 | | 125% | 80 | 120 | 0% | S |
| Magnesium | A | mg/L | 0.03019 | 0.03019 | | 0.025 | 0 | 0 | | 1 | | 121% | 80 | 120 | 0% | S |
| Manganese | A | mg/L | 0.0001071 | 0.0001071 | | 0.0001 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 3.896E-06 | 3.896E-06 | | 0.000002 | 0 | 0 | | 0.001 | | 195% | 80 | 120 | 0% | S |
| Molybdenum | A | mg/L | 0.0001146 | 0.0001146 | | 0.0001 | 0 | 0 | | 0.001 | | 115% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0001389 | 0.0001389 | | 0.0001 | 0 | 0 | | 0.005 | | 139% | 80 | 120 | 0% | S |
| Potassium | A | mg/L | 0.0288 | 0.0288 | | 0.025 | 0 | 0 | | 1 | | 115% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.0001326 | 0.0001326 | | 0.0001 | 0 | 0 | | 0.005 | | 133% | 80 | 120 | 0% | S |
| Silicon | A | mg/L | 0.001112 | 0.001112 | | 0.0004 | 0 | 0 | | 0.1 | | 278% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.00005328 | 0.00005328 | | 0.00004 | 0 | 0 | | 0.001 | | 133% | 80 | 120 | 0% | S |
| Sodium | A | mg/L | 0.03068 | 0.03068 | | 0.025 | 0 | 0 | | 1 | | 123% | 80 | 120 | 0% | S |
| Strontium | A | mg/L | 0.0001334 | 0.0001334 | | 0.0001 | 0 | 0 | | 0.001 | | 133% | 80 | 120 | 0% | S |
| Thallium | A | mg/L | 0.0001241 | 0.0001241 | | 0.0001 | 0 | 0 | | 0.001 | | 124% | 80 | 120 | 0% | S |
| Thorium | A | mg/L | 0.00008861 | 0.00008861 | | 0.0001 | 0 | 0 | | 0.05 | | 89% | 80 | 120 | 0% | |
| Tin | A | mg/L | -0.002208 | -0.002208 | | 0.0001 | 0 | 0 | | 0.001 | | -2208% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.0001161 | 0.0001161 | | 0.0001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.0001162 | 0.0001162 | | 0.0001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0001409 | 0.0001409 | | 0.0001 | 0 | 0 | | 0.005 | | 141% | 80 | 120 | 0% | S |
| Zinc | A | mg/L | 0.0001151 | 0.0001151 | | 0.0001 | 0 | 0 | | 0.01 | | 115% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 0.003303 | 0.003303 | | 0.0001 | 0 | 0 | | 0.01 | 5 | 3303% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.00237968 | 0.00237968 | | 0.00856 | 0 | 0 | | 0.214 | 0.9 | 28% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|---------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985133 | 0.5 PPB STD | ICPMS-6020B-C | CaI4 | | 1/18/2022 9:48:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0004749 | 0.0004749 | | 0.0005 | 0 | 0 | | 0.01 | | 95% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0004813 | 0.0004813 | | 0.0005 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0004708 | 0.0004708 | | 0.0005 | 0 | 0 | | 0.001 | | 94% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0004974 | 0.0004974 | | 0.0005 | 0 | 0 | | 0.0003 | | 99% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.0004473 | 0.0004473 | | 0.0005 | 0 | 0 | | 0.001 | | 89% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.000188 | 0.000188 | | 0.0005 | 0 | 0 | | 0.1 | | 38% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.0005189 | 0.0005189 | | 0.0005 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.1258 | 0.1258 | | 0.125 | 0 | 0 | | 1 | | 101% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.0004836 | 0.0004836 | | 0.0005 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.0005235 | 0.0005235 | | 0.0005 | 0 | 0 | | 0.001 | | 105% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0004751 | 0.0004751 | | 0.0005 | 0 | 0 | | 0.005 | | 95% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.01257 | 0.01257 | | 0.0125 | 0 | 0 | | 0.01 | | 101% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.0005006 | 0.0005006 | | 0.0005 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.000508 | 0.000508 | | 0.0005 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.1189 | 0.1189 | | 0.125 | 0 | 0 | | 1 | | 95% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.0004781 | 0.0004781 | | 0.0005 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 9.802E-06 | 9.802E-06 | | 0.00001 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.0004837 | 0.0004837 | | 0.0005 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0005082 | 0.0005082 | | 0.0005 | 0 | 0 | | 0.005 | | 102% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.1192 | 0.1192 | | 0.125 | 0 | 0 | | 1 | | 95% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.0004198 | 0.0004198 | | 0.0005 | 0 | 0 | | 0.005 | | 84% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.001896 | 0.001896 | | 0.002 | 0 | 0 | | 0.1 | | 95% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.000208 | 0.000208 | | 0.0002 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.1234 | 0.1234 | | 0.125 | 0 | 0 | | 1 | | 99% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.0005285 | 0.0005285 | | 0.0005 | 0 | 0 | | 0.001 | | 106% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.0004952 | 0.0004952 | | 0.0005 | 0 | 0 | | 0.001 | | 99% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.0003879 | 0.0003879 | | 0.0005 | 0 | 0 | | 0.05 | | 78% | 80 | 120 | 0% | S |
| Tin | A | mg/L | -0.001878 | -0.001878 | | 0.0005 | 0 | 0 | | 0.001 | | -376% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.0005172 | 0.0005172 | | 0.0005 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.0004879 | 0.0004879 | | 0.0005 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.000488 | 0.000488 | | 0.0005 | 0 | 0 | | 0.005 | | 98% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.0004604 | 0.0004604 | | 0.0005 | 0 | 0 | | 0.01 | | 92% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 0.01257 | 0.01257 | | 0.0005 | 0 | 0 | | 0.01 | 5 | 2514% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.00405744 | 0.00405744 | | 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 | | | | | |
|-----------------|-----------|---------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985134 | 1 PPB STD | ICPMS-6020B-C | Cal5 | | 1/18/2022 9:54:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001057 | 0.001057 | | 0.001 | 0 | 0 | | 0.01 | | 106% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0009836 | 0.0009836 | | 0.001 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.001102 | 0.001102 | | 0.001 | 0 | 0 | | 0.001 | | 110% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.001087 | 0.001087 | | 0.001 | 0 | 0 | | 0.0003 | | 109% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.001142 | 0.001142 | | 0.001 | 0 | 0 | | 0.001 | | 114% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.0007415 | 0.0007415 | | 0.001 | 0 | 0 | | 0.1 | | 74% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.001096 | 0.001096 | | 0.001 | 0 | 0 | | 0.001 | | 110% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.2776 | 0.2776 | | 0.25 | 0 | 0 | | 1 | | 111% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.001188 | 0.001188 | | 0.001 | 0 | 0 | | 0.001 | | 119% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.001151 | 0.001151 | | 0.001 | 0 | 0 | | 0.001 | | 115% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.001159 | 0.001159 | | 0.001 | 0 | 0 | | 0.005 | | 116% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.0258 | 0.0258 | | 0.025 | 0 | 0 | | 0.01 | | 103% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.001084 | 0.001084 | | 0.001 | 0 | 0 | | 0.001 | | 108% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.001113 | 0.001113 | | 0.001 | 0 | 0 | | 0.001 | | 111% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.2835 | 0.2835 | | 0.25 | 0 | 0 | | 1 | | 113% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.001111 | 0.001111 | | 0.001 | 0 | 0 | | 0.001 | | 111% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.00002101 | 0.00002101 | | 0.00002 | 0 | 0 | | 0.001 | | 105% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.00109 | 0.00109 | | 0.001 | 0 | 0 | | 0.001 | | 109% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.00113 | 0.00113 | | 0.001 | 0 | 0 | | 0.005 | | 113% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.2453 | 0.2453 | | 0.25 | 0 | 0 | | 1 | | 98% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.001042 | 0.001042 | | 0.001 | 0 | 0 | | 0.005 | | 104% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.004531 | 0.004531 | | 0.004 | 0 | 0 | | 0.1 | | 113% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.0004636 | 0.0004636 | | 0.0004 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.2766 | 0.2766 | | 0.25 | 0 | 0 | | 1 | | 111% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.001159 | 0.001159 | | 0.001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.001182 | 0.001182 | | 0.001 | 0 | 0 | | 0.001 | | 118% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.0009486 | 0.0009486 | | 0.001 | 0 | 0 | | 0.05 | | 95% | 80 | 120 | 0% | |
| Tin | A | mg/L | -0.001236 | -0.001236 | | 0.001 | 0 | 0 | | 0.001 | | -124% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.001073 | 0.001073 | | 0.001 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.001061 | 0.001061 | | 0.001 | 0 | 0 | | 0.001 | | 106% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.001109 | 0.001109 | | 0.001 | 0 | 0 | | 0.005 | | 111% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.001137 | 0.001137 | | 0.001 | 0 | 0 | | 0.01 | | 114% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 0.0258 | 0.0258 | | 0.001 | 0 | 0 | | 0.01 | 5 | 2580% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.00969634 | 0.00969634 | | 0.0856 | 0 | 0 | | 0.214 | 0.9 | 11% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|------------|--------------------|------------|-----------|------------------|--------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985135 | 10 PPB STD | ICPMS-6020B-C Cal6 | | | 1/18/2022 9:59:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.009772 | 0.009772 | | 0.01 | 0 | 0 | | 0.01 | | 98% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.009319 | 0.009319 | | 0.01 | 0 | 0 | | 0.001 | | 93% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.01033 | 0.01033 | | 0.01 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.009926 | 0.009926 | | 0.01 | 0 | 0 | | 0.0003 | | 99% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.009589 | 0.009589 | | 0.01 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.008856 | 0.008856 | | 0.01 | 0 | 0 | | 0.1 | | 89% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.009917 | 0.009917 | | 0.01 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 2.466 | 2.466 | | 2.5 | 0 | 0 | | 1 | | 99% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.009712 | 0.009712 | | 0.01 | 0 | 0 | | 0.001 | | 97% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.01047 | 0.01047 | | 0.01 | 0 | 0 | | 0.001 | | 105% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.01064 | 0.01064 | | 0.01 | 0 | 0 | | 0.005 | | 106% | 90 | 110 | 0% | |
| Iron | A | mg/L | 0.2458 | 0.2458 | | 0.25 | 0 | 0 | | 0.01 | | 98% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.009855 | 0.009855 | | 0.01 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.01013 | 0.01013 | | 0.01 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 2.341 | 2.341 | | 2.5 | 0 | 0 | | 1 | | 94% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.01046 | 0.01046 | | 0.01 | 0 | 0 | | 0.001 | | 105% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0001905 | 0.0001905 | | 0.0002 | 0 | 0 | | 0.001 | | 95% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.0105 | 0.0105 | | 0.01 | 0 | 0 | | 0.001 | | 105% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.01054 | 0.01054 | | 0.01 | 0 | 0 | | 0.005 | | 105% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 2.347 | 2.347 | | 2.5 | 0 | 0 | | 1 | | 94% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.01035 | 0.01035 | | 0.01 | 0 | 0 | | 0.005 | | 103% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.03749 | 0.03749 | | 0.04 | 0 | 0 | | 0.1 | | 94% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.004224 | 0.004224 | | 0.004 | 0 | 0 | | 0.001 | | 106% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 2.436 | 2.436 | | 2.5 | 0 | 0 | | 1 | | 97% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.01029 | 0.01029 | | 0.01 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.01099 | 0.01099 | | 0.01 | 0 | 0 | | 0.001 | | 110% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.009923 | 0.009923 | | 0.01 | 0 | 0 | | 0.05 | | 99% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.007789 | 0.007789 | | 0.01 | 0 | 0 | | 0.001 | | 78% | 90 | 110 | 0% | S |
| Titanium | A | mg/L | 0.01007 | 0.01007 | | 0.01 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.0098 | 0.0098 | | 0.01 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.01034 | 0.01034 | | 0.01 | 0 | 0 | | 0.005 | | 103% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.01056 | 0.01056 | | 0.01 | 0 | 0 | | 0.01 | | 106% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.2458 | 0.2458 | | 0.01 | 0 | 0 | | 0.01 | 5 | 2458% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.0802286 | 0.0802286 | | 0.856 | 0 | 0 | | 0.214 | 0.9 | 9% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|------------|--------------------|------------|-----------|------------------|-------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985136 | 50 PPB STD | ICPMS-6020B-C Cal7 | | | 1/18/2022 10:05: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04757 | 0.04757 | | 0.05 | 0 | 0 | | 0.01 | | 95% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.04959 | 0.04959 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.04939 | 0.04939 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04835 | 0.04835 | | 0.05 | 0 | 0 | | 0.0003 | | 97% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04926 | 0.04926 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.04798 | 0.04798 | | 0.05 | 0 | 0 | | 0.1 | | 96% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.04952 | 0.04952 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.38 | 12.38 | | 12.5 | 0 | 0 | | 1 | | 99% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04876 | 0.04876 | | 0.05 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05045 | 0.05045 | | 0.05 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05002 | 0.05002 | | 0.05 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.229 | 1.229 | | 1.25 | 0 | 0 | | 0.01 | | 98% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.04682 | 0.04682 | | 0.05 | 0 | 0 | | 0.001 | | 94% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04863 | 0.04863 | | 0.05 | 0 | 0 | | 0.001 | | 97% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 11.89 | 11.89 | | 12.5 | 0 | 0 | | 1 | | 95% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.04973 | 0.04973 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009595 | 0.0009595 | | 0.001 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.04917 | 0.04917 | | 0.05 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.04973 | 0.04973 | | 0.05 | 0 | 0 | | 0.005 | | 99% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 11.82 | 11.82 | | 12.5 | 0 | 0 | | 1 | | 95% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.04715 | 0.04715 | | 0.05 | 0 | 0 | | 0.005 | | 94% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.1937 | 0.1937 | | 0.2 | 0 | 0 | | 0.1 | | 97% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02016 | 0.02016 | | 0.02 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.03 | 12.03 | | 12.5 | 0 | 0 | | 1 | | 96% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05079 | 0.05079 | | 0.05 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05004 | 0.05004 | | 0.05 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.04967 | 0.04967 | | 0.05 | 0 | 0 | | 0.05 | | 99% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04802 | 0.04802 | | 0.05 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04828 | 0.04828 | | 0.05 | 0 | 0 | | 0.001 | | 97% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04981 | 0.04981 | | 0.05 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04948 | 0.04948 | | 0.05 | 0 | 0 | | 0.005 | | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05009 | 0.05009 | | 0.05 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.229 | 1.229 | | 0.05 | 0 | 0 | | 0.01 | 5 | 2458% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.414518 | 0.414518 | | 4.28 | 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 | | | | | |
|-----------------|-------------|--------------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985137 | 100 PPB STD | ICPMS-6020B-C Cal8 | | | 1/18/2022 10:11: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.1012 | 0.1012 | | 0.1 | 0 | 0 | | 0.01 | | 101% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.1003 | 0.1003 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.1003 | 0.1003 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.1008 | 0.1008 | | 0.1 | 0 | 0 | | 0.0003 | | 101% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.1004 | 0.1004 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.1011 | 0.1011 | | 0.1 | 0 | 0 | | 0.1 | | 101% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.1002 | 0.1002 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 26.66 | 26.66 | | 25 | 0 | 0 | | 1 | | 107% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.1006 | 0.1006 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.09973 | 0.09973 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.09992 | 0.09992 | | 0.1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Iron | A | mg/L | 2.44 | 2.44 | | 2.5 | 0 | 0 | | 0.01 | | 98% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.1016 | 0.1016 | | 0.1 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.1007 | 0.1007 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 25.41 | 25.41 | | 25 | 0 | 0 | | 1 | | 102% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.1001 | 0.1001 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.002021 | 0.002021 | | 0.002 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.1004 | 0.1004 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.1001 | 0.1001 | | 0.1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 24.66 | 24.66 | | 25 | 0 | 0 | | 1 | | 99% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.1014 | 0.1014 | | 0.1 | 0 | 0 | | 0.005 | | 101% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.4034 | 0.4034 | | 0.4 | 0 | 0 | | 0.1 | | 101% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.0399 | 0.0399 | | 0.04 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 25.11 | 25.11 | | 25 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.09957 | 0.09957 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.09988 | 0.09988 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.1002 | 0.1002 | | 0.1 | 0 | 0 | | 0.05 | | 100% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.1012 | 0.1012 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.1009 | 0.1009 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.1001 | 0.1001 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.1002 | 0.1002 | | 0.1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.0999 | 0.0999 | | 0.1 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 2.44 | 2.44 | | 0.1 | 0 | 0 | | 0.01 | 5 | 2440% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.863276 | 0.863276 | | 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 | | | | | |
|-----------------|--------|-----------|---------------|------------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985138 | 1000 | PPB STD | ICPMS-6020B-C | Cal10 | 1/18/2022 10:17: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.9396 | 0.9396 | | 1 | 0 | 0 | | 0.01 | | 94% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.0001022 | 0.0001022 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Arsenic | A | mg/L | 1.053 | 1.053 | | 1 | 0 | 0 | | 0.001 | | 105% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.9523 | 0.9523 | | 1 | 0 | 0 | | 0.0003 | | 95% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.972 | 0.972 | | 1 | 0 | 0 | | 0.001 | | 97% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.9453 | 0.9453 | | 1 | 0 | 0 | | 0.1 | | 95% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 1.019 | 1.019 | | 1 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 49.2 | 49.2 | | 50 | 0 | 0 | | 1 | | 98% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 1.056 | 1.056 | | 1 | 0 | 0 | | 0.001 | | 106% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 1.027 | 1.027 | | 1 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Copper | A | mg/L | 1.007 | 1.007 | | 1 | 0 | 0 | | 0.005 | | 101% | 90 | 110 | 0% | |
| Iron | A | mg/L | 6.085 | 6.085 | | 6 | 0 | 0 | | 0.01 | | 101% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.00001168 | 0.00001168 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Lead | A | mg/L | 0.948 | 0.948 | | 1 | 0 | 0 | | 0.001 | | 95% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 49.96 | 49.96 | | 50 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 1.053 | 1.053 | | 1 | 0 | 0 | | 0.001 | | 105% | 90 | | 0% | |
| Mercury | A | mg/L | 0.00001097 | 0.00001097 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.0000465 | 0.0000465 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Nickel | A | mg/L | 1.039 | 1.039 | | 1 | 0 | 0 | | 0.005 | | 104% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 50.35 | 50.35 | | 50 | 0 | 0 | | 1 | | 101% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.9645 | 0.9645 | | 1 | 0 | 0 | | 0.005 | | 96% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.002293 | 0.002293 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.3603 | 0.3603 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Sodium | A | mg/L | 50.06 | 50.06 | | 50 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 1.022 | 1.022 | | 1 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 1.057 | 1.057 | | 1 | 0 | 0 | | 0.001 | | 106% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 1.073 | 1.073 | | 1 | 0 | 0 | | 0.05 | | 107% | 90 | 110 | 0% | |
| Tin | A | mg/L | -0.002227 | -0.002227 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.005898 | 0.005898 | | 1 | 0 | 0 | | 0.001 | | 1% | 90 | 110 | 0% | S |
| Uranium | A | mg/L | 0.9859 | 0.9859 | | 1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 1.078 | 1.078 | | 1 | 0 | 0 | | 0.005 | | 108% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 1.019 | 1.019 | | 1 | 0 | 0 | | 0.01 | | 102% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 6.085 | 6.085 | | 0 | 0 | 0 | | 0.01 | 5 | 0% | | | 0% | |
| Silicon as SiO2 | C | mg/L | 0.00490702 | 0.00490702 | | 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 | | | | | |
|---------------|--------|---------------------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985139 | 100 | ppb Bromine ICPMS-6020-W- | SAMP | | 1/18/2022 10:22: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.008329 | 0.008329 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00002701 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.0001619 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.0001189 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0.0001375 | 0.0001375 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cadmium | A | mg/L | 0.00009428 | 0.00009428 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 5.794E-07 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.0001493 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.0000947 | 0.0000947 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0001493 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 2.782E-06 | 0 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.000107 | 0.000107 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.0001167 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 3.978E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00002011 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.0001667 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0002539 | 0.0002539 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silicon | A | mg/L | 0.0003702 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.0002965 | 0.0002965 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 0.0001001 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0001281 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.0000584 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0001313 | 0.0001313 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Boron | B | mg/L | 0.005425 | 0.005425 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.001135 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Iron, Ferrous | B | mg/L | 0.001135 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Lithium | B | mg/L | 0.004394 | 0 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | 0 | 0 | 0% | L |
| Magnesium | B | mg/L | 0.00437 | 0 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.5057 | 0.5057 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 0.05657 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | L |
| Thorium | B | mg/L | 0.0003205 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | B | mg/L | -0.00237 | 0 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.0001249 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | 0.0006069 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985141 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 10:29: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001488 | 0 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.0000162 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00004572 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.0000198 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0.00003266 | 0 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00001648 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 3.641E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -9.608E-06 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00001903 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -7.383E-06 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 4.425E-06 | 0 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001788 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.00002604 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 3.038E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 9.217E-06 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 2.523E-06 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00008222 | 0 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | -6.575E-05 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.00002018 | 0.00002018 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 0.00001443 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00002812 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00001326 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00002166 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.001853 | 0 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0003545 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Iron, Ferrous | B | mg/L | 0.0003545 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Lithium | B | mg/L | 0.001809 | 0 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | 0 | 0 | 0% | L |
| Magnesium | B | mg/L | 0.0017 | 0 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.00206 | 0 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 0.01492 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | L |
| Thorium | B | mg/L | 0.00006317 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | B | mg/L | -0.002526 | 0 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.00003016 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | -5.201E-05 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|----------|----------|-----------|--------|--------|--------|--------|-----|------|------|---|
| 14985142 | 0.10 PPB STD | ICPMS-6020B-C | Cal3 | | 1/18/2022 10:34: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0002425 | 0.0002425 | | 0.0001 | 0 | 0 | | 0.01 | | 242% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.0001231 | 0.0001231 | | 0.0001 | 0 | 0 | | 0.001 | | 123% | 80 | 120 | 0% | S |
| Arsenic | A | mg/L | 0.0001639 | 0.0001639 | | 0.0001 | 0 | 0 | | 0.001 | | 164% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.0001243 | 0.0001243 | | 0.0001 | 0 | 0 | | 0.0003 | | 124% | 80 | 120 | 0% | S |
| Beryllium | A | mg/L | 0.0001256 | 0.0001256 | | 0.0001 | 0 | 0 | | 0.001 | | 126% | 80 | 120 | 0% | S |
| Boron | A | mg/L | 0.0008848 | 0.0008848 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0001376 | 0.0001376 | | 0.0001 | 0 | 0 | | 0.001 | | 138% | 80 | 120 | 0% | S |
| Calcium | A | mg/L | 0.03147 | 0.03147 | | 0.025 | 0 | 0 | | 1 | | 126% | 80 | 120 | 0% | S |
| Chromium | A | mg/L | 0.0001391 | 0.0001391 | | 0.0001 | 0 | 0 | | 0.001 | | 139% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.0001176 | 0.0001176 | | 0.0001 | 0 | 0 | | 0.001 | | 118% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0001236 | 0.0001236 | | 0.0001 | 0 | 0 | | 0.005 | | 124% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.003135 | 0.003135 | | 0.0025 | 0 | 0 | | 0.01 | | 125% | 80 | 120 | 0% | S |
| Lanthanum | A | mg/L | 0.0001178 | 0.0001178 | | 0.0001 | 0 | 0 | | 0.001 | | 118% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.02505 | 0.02505 | | 0.025 | 0 | 0 | | 1 | | 100% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.0001227 | 0.0001227 | | 0.0001 | 0 | 0 | | 0.001 | | 123% | 80 | 120 | 0% | S |
| Mercury | A | mg/L | 4.266E-06 | 4.266E-06 | | 0.000002 | 0 | 0 | | 0.001 | | 213% | 80 | 120 | 0% | S |
| Molybdenum | A | mg/L | 0.0001221 | 0.0001221 | | 0.0001 | 0 | 0 | | 0.001 | | 122% | 80 | 120 | 0% | S |
| Nickel | A | mg/L | 0.0001078 | 0.0001078 | | 0.0001 | 0 | 0 | | 0.005 | | 108% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.03071 | 0.03071 | | 0.025 | 0 | 0 | | 1 | | 123% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.0001444 | 0.0001444 | | 0.0001 | 0 | 0 | | 0.005 | | 144% | 80 | 120 | 0% | S |
| Silicon | A | mg/L | 0.0008207 | 0.0008207 | | 0.0004 | 0 | 0 | | 0.1 | | 205% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.00005558 | 0.00005558 | | 0.00004 | 0 | 0 | | 0.001 | | 139% | 80 | 120 | 0% | S |
| Sodium | A | mg/L | 0.03514 | 0.03514 | | 0.025 | 0 | 0 | | 1 | | 141% | 80 | 120 | 0% | S |
| Strontium | A | mg/L | 0.0001235 | 0.0001235 | | 0.0001 | 0 | 0 | | 0.001 | | 124% | 80 | 120 | 0% | S |
| Thallium | A | mg/L | 0.0001298 | 0.0001298 | | 0.0001 | 0 | 0 | | 0.001 | | 130% | 80 | 120 | 0% | S |
| Thorium | A | mg/L | 0.0001282 | 0.0001282 | | 0.0001 | 0 | 0 | | 0.05 | | 128% | 80 | 120 | 0% | S |
| Tin | A | mg/L | -0.002203 | -0.002203 | | 0.0001 | 0 | 0 | | 0.001 | | -2203% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.0001421 | 0.0001421 | | 0.0001 | 0 | 0 | | 0.001 | | 142% | 80 | 120 | 0% | S |
| Uranium | A | mg/L | 0.000117 | 0.000117 | | 0.0001 | 0 | 0 | | 0.001 | | 117% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0001497 | 0.0001497 | | 0.0001 | 0 | 0 | | 0.005 | | 150% | 80 | 120 | 0% | S |
| Zinc | A | mg/L | 0.000134 | 0.000134 | | 0.0001 | 0 | 0 | | 0.01 | | 134% | 80 | 120 | 0% | S |
| Iron, Ferrous | C | mg/L | 0.003135 | 0.003135 | | 0.0001 | 0 | 0 | | 0.01 | 5 | 3135% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.0017563 | 0.0017563 | | 0.00856 | 0 | 0 | | 0.214 | 0.9 | 21% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|----------|----------|-----------|--------|--------|--------|--------|-----|------|------|---|
| 14985143 | 0.10 PPB STD | ICPMS-6020B-C | CaI3 | | 1/18/2022 10:40: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.000285 | 0.000285 | | 0.0001 | 0 | 0 | | 0.01 | | 285% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.0001197 | 0.0001197 | | 0.0001 | 0 | 0 | | 0.001 | | 120% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0001158 | 0.0001158 | | 0.0001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0001157 | 0.0001157 | | 0.0001 | 0 | 0 | | 0.0003 | | 116% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.0001044 | 0.0001044 | | 0.0001 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.0009167 | 0.0009167 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0001434 | 0.0001434 | | 0.0001 | 0 | 0 | | 0.001 | | 143% | 80 | 120 | 0% | S |
| Calcium | A | mg/L | 0.03187 | 0.03187 | | 0.025 | 0 | 0 | | 1 | | 127% | 80 | 120 | 0% | S |
| Chromium | A | mg/L | 0.0001364 | 0.0001364 | | 0.0001 | 0 | 0 | | 0.001 | | 136% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.0001141 | 0.0001141 | | 0.0001 | 0 | 0 | | 0.001 | | 114% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0001226 | 0.0001226 | | 0.0001 | 0 | 0 | | 0.005 | | 123% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.003146 | 0.003146 | | 0.0025 | 0 | 0 | | 0.01 | | 126% | 80 | 120 | 0% | S |
| Lanthanum | A | mg/L | 0.0001137 | 0.0001137 | | 0.0001 | 0 | 0 | | 0.001 | | 114% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.0001128 | 0.0001128 | | 0.0001 | 0 | 0 | | 0.001 | | 113% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.03016 | 0.03016 | | 0.025 | 0 | 0 | | 1 | | 121% | 80 | 120 | 0% | S |
| Manganese | A | mg/L | 0.0001207 | 0.0001207 | | 0.0001 | 0 | 0 | | 0.001 | | 121% | 80 | 120 | 0% | S |
| Mercury | A | mg/L | 3.792E-06 | 3.792E-06 | | 0.000002 | 0 | 0 | | 0.001 | | 190% | 80 | 120 | 0% | S |
| Molybdenum | A | mg/L | 0.0001158 | 0.0001158 | | 0.0001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0000909 | 0.0000909 | | 0.0001 | 0 | 0 | | 0.005 | | 91% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.0307 | 0.0307 | | 0.025 | 0 | 0 | | 1 | | 123% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.0001104 | 0.0001104 | | 0.0001 | 0 | 0 | | 0.005 | | 110% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.0009301 | 0.0009301 | | 0.0004 | 0 | 0 | | 0.1 | | 233% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.00004719 | 0.00004719 | | 0.00004 | 0 | 0 | | 0.001 | | 118% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.02808 | 0.02808 | | 0.025 | 0 | 0 | | 1 | | 112% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.00012 | 0.00012 | | 0.0001 | 0 | 0 | | 0.001 | | 120% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.0001184 | 0.0001184 | | 0.0001 | 0 | 0 | | 0.001 | | 118% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.0001106 | 0.0001106 | | 0.0001 | 0 | 0 | | 0.05 | | 111% | 80 | 120 | 0% | |
| Tin | A | mg/L | -0.00221 | -0.00221 | | 0.0001 | 0 | 0 | | 0.001 | | -2210% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.0001552 | 0.0001552 | | 0.0001 | 0 | 0 | | 0.001 | | 155% | 80 | 120 | 0% | S |
| Uranium | A | mg/L | 0.0001087 | 0.0001087 | | 0.0001 | 0 | 0 | | 0.001 | | 109% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0001138 | 0.0001138 | | 0.0001 | 0 | 0 | | 0.005 | | 114% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.0001469 | 0.0001469 | | 0.0001 | 0 | 0 | | 0.01 | | 147% | 80 | 120 | 0% | S |
| Iron, Ferrous | C | mg/L | 0.003146 | 0.003146 | | 0.0001 | 0 | 0 | | 0.01 | 5 | 3146% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.00199041 | 0.00199041 | | 0.00856 | 0 | 0 | | 0.214 | 0.9 | 23% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|-------------------|------------|----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985144 | QCS | ICPMS-6020-W- ICV | | | 1/18/2022 10:46: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.2469 | 0.2469 | | 0.25 | 0 | 0 | 0.0006548 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.05273 | 0.05273 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 105% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05041 | 0.05041 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05204 | 0.05204 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.02498 | 0.02498 | | 0.025 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.04852 | 0.04852 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 97% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.02555 | 0.02555 | | 0.025 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 2.453 | 2.453 | | 2.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 98% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05034 | 0.05034 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 101% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.0495 | 0.0495 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05097 | 0.05097 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05256 | 0.05256 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Iron | A | mg/L | 0.2403 | 0.2403 | | 0.25 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 96% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.04915 | 0.04915 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05241 | 0.05241 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.0472 | 0.0472 | | 0.05 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 94% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 2.295 | 2.295 | | 2.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 92% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.245 | 0.245 | | 0.25 | 0 | 0 | 0.0001444 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.001026 | 0.001026 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 103% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.04905 | 0.04905 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05067 | 0.05067 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 2.316 | 2.316 | | 2.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 93% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05025 | 0.05025 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.5026 | 0.5026 | | 0.5 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 101% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02615 | 0.02615 | | 0.025 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 105% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 2.414 | 2.414 | | 2.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 97% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.04893 | 0.04893 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05014 | 0.05014 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05087 | 0.05087 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 102% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05142 | 0.05142 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 103% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04724 | 0.04724 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.0535 | 0.0535 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 107% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04952 | 0.04952 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05183 | 0.05183 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 104% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.2403 | 0.2403 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|--------|-------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985145 | CCV | ICPMS-6020-W- CCV | | | 1/18/2022 10:52: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04818 | 0.04818 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.05198 | 0.05198 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 104% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.04982 | 0.04982 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05002 | 0.05002 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04964 | 0.04964 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.04765 | 0.04765 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 95% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.051 | 0.051 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.61 | 12.61 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 101% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.04884 | 0.04884 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04938 | 0.04938 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05128 | 0.05128 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05054 | 0.05054 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.252 | 1.252 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 96% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.04943 | 0.04943 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 99% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05022 | 0.05022 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.5553 | 0.5553 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 89% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 11.74 | 11.74 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 94% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05019 | 0.05019 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009623 | 0.0009623 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 96% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.0508 | 0.0508 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.04945 | 0.04945 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 12.07 | 12.07 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 97% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05211 | 0.05211 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.1986 | 0.1986 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 99% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02045 | 0.02045 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 102% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 11.95 | 11.95 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 96% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05 | 0.05 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.04931 | 0.04931 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.0492 | 0.0492 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 98% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05107 | 0.05107 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 102% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.05006 | 0.05006 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04876 | 0.04876 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 98% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.05013 | 0.05013 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 100% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.04963 | 0.04963 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 99% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.252 | 1.252 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|--------|-------------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14985146 | CCB | ICPMS-6020-W- CCB | | | 1/18/2022 10:57: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -1.751E-05 | -1.751E-05 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.00005459 | 0.00005459 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | 0.00001192 | 0.00001192 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | 4.018E-06 | 4.018E-06 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | 2.479E-06 | 2.479E-06 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | 0.0006072 | 0.0006072 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | 1.648E-06 | 1.648E-06 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | 0.0000133 | 0.0000133 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | -2.039E-07 | -2.039E-07 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | -2.332E-06 | -2.332E-06 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | -8.235E-07 | -8.235E-07 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | -0.00001 | -0.00001 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | -2.424E-05 | -2.424E-05 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | 8.788E-07 | 8.788E-07 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 1.801E-06 | 1.801E-06 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | | 0% |
| Lithium | A | mg/L | 0.0005897 | 0.0005897 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | | 0% |
| Magnesium | A | mg/L | 0.00008591 | 0.00008591 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | 0.00001182 | 0.00001182 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 7.109E-06 | 7.109E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | | 0% |
| Molybdenum | A | mg/L | 8.642E-06 | 8.642E-06 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | -5.757E-06 | -5.757E-06 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | -0.001826 | -0.001826 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.00001913 | 0.00001913 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | 0.0005637 | 0.0005637 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | 0.00001183 | 0.00001183 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | -0.003526 | -0.003526 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | -1.17E-07 | -1.17E-07 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 9.383E-06 | 9.383E-06 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.00006654 | 0.00006654 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | -1.308E-05 | -1.308E-05 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.00003612 | 0.00003612 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 3.465E-06 | 3.465E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | 0.00001366 | 0.00001366 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | -7.178E-05 | -7.178E-05 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | -2.424E-05 | -2.424E-05 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|--------|--------------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985147 | LRB | ICPMS-6020-W- MBLK | | | 1/18/2022 11:03: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0003414 | 0 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 9.973E-06 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -4.131E-06 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00001042 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | -3.416E-06 | 0 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0.0002762 | 0 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 3.978E-07 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0.006779 | 0 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 1.025E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.0001317 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 2.815E-07 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -0.0000258 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0.0007955 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 1.209E-06 | 0 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 1.899E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.0005 | 1 | 0% | 0 | 0 | 0% | |
| Lithium | A | mg/L | -3.381E-06 | 0 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | 0 | 0 | 0% | |
| Magnesium | A | mg/L | 0.0008985 | 0 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.00001457 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 4.148E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001429 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.00006474 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | -0.002897 | 0 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00001326 | 0 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.004461 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -6.676E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | 0.03202 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 8.309E-06 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 2.374E-06 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00003177 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | -0.002543 | 0 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00001883 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 9.022E-07 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0.00003632 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | 0.0006421 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | 0.0007955 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985148 | LFB | ICPMS-6020-W- | LFB | | 1/18/2022 11:09: | 1.03 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04524 | 0.0465972 | | 0.05 | 0 | 0 | 0.0006745 | 0.001 | 1 | 93% | 85 | 115 | 0% | |
| Antimony | A | mg/L | 0.04753 | 0.0489559 | | 0.05 | 0 | 0 | 0.0003076 | 0.001 | 0.1 | 98% | 85 | 115 | 0% | |
| Arsenic | A | mg/L | 0.04748 | 0.0489044 | | 0.05 | 0 | 0 | 0.0001869 | 0.001 | 1 | 98% | 85 | 115 | 0% | |
| Barium | A | mg/L | 0.04561 | 0.0469783 | | 0.05 | 0 | 0 | 0.0001360 | 0.001 | 1 | 94% | 85 | 115 | 0% | |
| Beryllium | A | mg/L | 0.04535 | 0.0467105 | | 0.05 | 0 | 0 | 7.689E-05 | 0.001 | 1 | 93% | 85 | 115 | 0% | |
| Boron | A | mg/L | 0.0458 | 0.047174 | | 0.05 | 0 | 0 | 0.0030933 | 0.0030933 | 1 | 94% | 85 | 115 | 0% | |
| Cadmium | A | mg/L | 0.04681 | 0.0482143 | | 0.05 | 0 | 0 | 5.293E-05 | 0.001 | 1 | 96% | 85 | 115 | 0% | |
| Calcium | A | mg/L | 58.7 | 60.461 | | 50 | 0 | 0 | 0.0772290 | 0.0772290 | 50 | 121% | 85 | 115 | 0% | S |
| Cerium | A | mg/L | 0.04724 | 0.0486572 | | 0.05 | 0 | 0 | 1.506E-05 | 0.001 | 0.1 | 97% | 85 | 115 | 0% | |
| Chromium | A | mg/L | 0.04572 | 0.0470916 | | 0.05 | 0 | 0 | 0.0005646 | 0.001 | 1 | 94% | 85 | 115 | 0% | |
| Cobalt | A | mg/L | 0.04795 | 0.0493885 | | 0.05 | 0 | 0 | 4.899E-05 | 0.001 | 1 | 99% | 85 | 115 | 0% | |
| Copper | A | mg/L | 0.04773 | 0.0491619 | | 0.05 | 0 | 0 | 0.0003943 | 0.001 | 1 | 98% | 85 | 115 | 0% | |
| Iron | A | mg/L | 5.383 | 5.54449 | | 5.05 | 0 | 0 | 0.0047679 | 0.0047679 | 5 | 110% | 85 | 115 | 0% | |
| Lanthanum | A | mg/L | 5.515E-06 | 0 | | 0.05 | 0 | 0 | 1.733E-05 | 0.001 | 0.1 | 0% | 85 | 115 | 0% | S |
| Lead | A | mg/L | 0.04388 | 0.0451964 | | 0.05 | 0 | 0 | 6.452E-05 | 0.001 | 1 | 90% | 88 | 115 | 0% | |
| Lithium | A | mg/L | 2.076 | 2.13828 | | 2.5 | 0 | 0 | 0.0053668 | 0.0053668 | 2.5 | 86% | 85 | 115 | 0% | |
| Magnesium | A | mg/L | 47.81 | 49.2443 | | 50 | 0 | 0 | 0.0122563 | 0.0122563 | 50 | 98% | 85 | 115 | 0% | |
| Manganese | A | mg/L | 0.04733 | 0.0487499 | | 0.05 | 0 | 0 | 0.0001487 | 0.001 | 1 | 97% | 85 | 115 | 0% | |
| Mercury | A | mg/L | 0.0009098 | 0.00093709 | | 0.001 | 0 | 0 | 6.798E-05 | 0.001 | 0.02 | 94% | 85 | 115 | 0% | |
| Molybdenum | A | mg/L | 0.04702 | 0.0484306 | | 0.05 | 0 | 0 | 8.588E-05 | 0.001 | 0.1 | 97% | 85 | 115 | 0% | |
| Nickel | A | mg/L | 0.04749 | 0.0489147 | | 0.05 | 0 | 0 | 0.0002607 | 0.001 | 1 | 98% | 85 | 115 | 0% | |
| Potassium | A | mg/L | 46.33 | 47.7199 | | 50 | 0 | 0 | 0.2136209 | 0.2136209 | 50 | 95% | 85 | 115 | 0% | |
| Selenium | A | mg/L | 0.04768 | 0.0491104 | | 0.05 | 0 | 0 | 0.0009152 | 0.001 | 1 | 98% | 85 | 115 | 0% | |
| Silicon | A | mg/L | 0.2278 | 0.234634 | | 0.2 | 0 | 0 | 0.0150559 | 0.1 | 0.4 | 117% | 85 | 115 | 0% | S |
| Silver | A | mg/L | 0.01892 | 0.0194876 | | 0.02 | 0 | 0 | 1.157E-05 | 0.001 | 0.04 | 97% | 85 | 115 | 0% | |
| Sodium | A | mg/L | 49.06 | 50.5318 | | 50 | 0 | 0 | 0.0833551 | 0.0833551 | 50 | 101% | 85 | 115 | 0% | |
| Strontium | A | mg/L | 0.04728 | 0.0486984 | | 0.05 | 0 | 0 | 0.000188 | 0.001 | 1 | 97% | 85 | 115 | 0% | |
| Thallium | A | mg/L | 0.04558 | 0.0469474 | | 0.05 | 0 | 0 | 0.0003081 | 0.001 | 1 | 94% | 85 | 115 | 0% | |
| Thorium | A | mg/L | 0.0478 | 0.049234 | | 0.05 | 0 | 0 | 0.0010787 | 0.0010787 | 1 | 98% | 85 | 115 | 0% | |
| Tin | A | mg/L | 0.04529 | 0.0466487 | | 0.05 | 0 | 0 | 0.002306 | 0.002306 | 0.1 | 93% | 85 | 115 | 0% | |
| Titanium | A | mg/L | 0.05268 | 0.0542604 | | 0.05 | 0 | 0 | 0.0003063 | 0.001 | 1 | 109% | 85 | 115 | 0% | |
| Uranium | A | mg/L | 0.04373 | 0.0450419 | | 0.05 | 0 | 0 | 3.233E-05 | 0.0003 | 1 | 90% | 85 | 115 | 0% | |
| Vanadium | A | mg/L | 0.04792 | 0.0493576 | | 0.05 | 0 | 0 | 0.0044772 | 0.0044772 | 1 | 99% | 85 | 115 | 0% | |
| Zinc | A | mg/L | 0.04687 | 0.0482761 | | 0.05 | 0 | 0 | 0.0011946 | 0.0011946 | 1 | 97% | 85 | 115 | 0% | |
| Iron, Ferrous | C | mg/L | 5.383 | 5.54449 | | 0 | 0 | 0 | 0.0047679 | 0.0047679 | 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 | | | | | |
|---------------|--------|--------------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985149 | ICSA | ICPMS-6020-W- ICSA | | | 1/18/2022 11:15: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 35 | 35 | | 40 | 0 | 0 | 0.0006548 | 0.001 | 1 | 88% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.00004723 | 0.00004723 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.0000672 | 0.0000672 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | 0.00006922 | 0.00006922 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | -7.049E-06 | -7.049E-06 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.0004629 | 0.0004629 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0002035 | 0.0002035 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | 103.4 | 103.4 | | 120 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 86% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 2.108E-06 | 2.108E-06 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Chromium | A | mg/L | 0.0008054 | 0.0008054 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | 0.0003553 | 0.0003553 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | 0.00001757 | 0.00001757 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | 91.37 | 91.37 | | 100 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 91% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 8.014E-06 | 8.014E-06 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Lead | A | mg/L | 0.00001789 | 0.00001789 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | 0% | |
| Lithium | A | mg/L | 0.001196 | 0.001196 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | 0% | |
| Magnesium | A | mg/L | 37.62 | 37.62 | | 50 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 75% | | | 0% | |
| Manganese | A | mg/L | 0.0002076 | 0.0002076 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | 0% | |
| Mercury | A | mg/L | 6.353E-06 | 6.353E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.7737 | 0.7737 | | 0.8 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 97% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0001753 | 0.0001753 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | 35.68 | 35.68 | | 50 | 0 | 0 | 0.207399 | 0.207399 | 50 | 71% | | | 0% | |
| Selenium | A | mg/L | 0.0001243 | 0.0001243 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | 0.0006468 | 0.0006468 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | | | 0% | |
| Silver | A | mg/L | 1.245E-06 | 1.245E-06 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | 91.39 | 91.39 | | 100 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 91% | | | 0% | |
| Strontium | A | mg/L | 0.001221 | 0.001221 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | | | 0% | |
| Thallium | A | mg/L | 0.00005934 | 0.00005934 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | | | 0% | |
| Thorium | A | mg/L | 0.0001787 | 0.0001787 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | | | 0% | |
| Tin | A | mg/L | -0.002292 | -0.002292 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | | | 0% | |
| Titanium | A | mg/L | 0.7694 | 0.7694 | | 0.8 | 0 | 0 | 0.0002974 | 0.001 | 1 | 96% | | | 0% | |
| Uranium | A | mg/L | 2.639E-06 | 2.639E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | | | 0% | |
| Vanadium | A | mg/L | -1.102E-06 | -1.102E-06 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | | | 0% | |
| Zinc | A | mg/L | 0.000327 | 0.000327 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 91.37 | 91.37 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985150 | ICSAB | ICPMS-6020-W- ICSAB | | | 1/18/2022 11:20: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 32.31 | 32.31 | | 40 | 0 | 0 | 0.0006548 | 0.001 | 1 | 81% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0000256 | 0.0000256 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.009932 | 0.009932 | | 0.01 | 0 | 0 | 0.0001814 | 0.001 | 1 | 99% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.00005794 | 0.00005794 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | -9.32E-06 | -9.32E-06 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.00004334 | 0.00004334 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.009772 | 0.009772 | | 0.01 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 98% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 91.66 | 91.66 | | 120 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 76% | 80 | 120 | 0% | S |
| Cerium | A | mg/L | 3.443E-06 | 3.443E-06 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Chromium | A | mg/L | 0.01884 | 0.01884 | | 0.02 | 0 | 0 | 0.0005481 | 0.001 | 1 | 94% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.01929 | 0.01929 | | 0.02 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 96% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.01869 | 0.01869 | | 0.02 | 0 | 0 | 0.0003828 | 0.001 | 1 | 93% | 80 | 120 | 0% | |
| Iron | A | mg/L | 82.29 | 82.29 | | 100 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 82% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.00001052 | 0.00001052 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Lead | A | mg/L | 0.00001701 | 0.00001701 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | 0% | |
| Lithium | A | mg/L | 0.0002865 | 0.0002865 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | 0% | |
| Magnesium | A | mg/L | 32.85 | 32.85 | | 40 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 82% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.01903 | 0.01903 | | 0.02 | 0 | 0 | 0.0001444 | 0.001 | 1 | 95% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 1.227E-06 | 1.227E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.76 | 0.76 | | 0.8 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 95% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.01904 | 0.01904 | | 0.02 | 0 | 0 | 0.0002531 | 0.001 | 1 | 95% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 33.57 | 33.57 | | 40 | 0 | 0 | 0.207399 | 0.207399 | 50 | 84% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.01042 | 0.01042 | | 0.01 | 0 | 0 | 0.0001415 | 0.001 | 1 | 104% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.000719 | 0.000719 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | | | 0% | |
| Silver | A | mg/L | 0.004793 | 0.004793 | | 0.005 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 96% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 85.1 | 85.1 | | 100 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 85% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.001186 | 0.001186 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | | | 0% | |
| Thallium | A | mg/L | 0.0000225 | 0.0000225 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | | | 0% | |
| Thorium | A | mg/L | 0.0001098 | 0.0001098 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | | | 0% | |
| Tin | A | mg/L | -0.00229 | -0.00229 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | | | 0% | |
| Titanium | A | mg/L | 0.7395 | 0.7395 | | 0.8 | 0 | 0 | 0.0002974 | 0.001 | 1 | 92% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 8.966E-07 | 8.966E-07 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | | | 0% | |
| Vanadium | A | mg/L | 0.01863 | 0.01863 | | 0.02 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 93% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.009528 | 0.009528 | | 0.01 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 95% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 82.29 | 82.29 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------|--------------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985151 | Rinse | ICPMS-6020-W- SAMP | | | 1/18/2022 11:26: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 9.984E-06 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.0000353 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00003494 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003028 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 7.129E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00003102 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00002502 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.00000995 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00003208 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.00003486 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 6.218E-07 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00008336 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.00001998 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.0001864 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.00001542 | 0.00001542 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 0.0000292 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00004192 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00002857 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00003052 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.00001954 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | -2.998E-05 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|-----------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985152 | CCV | ICPMS-6020-W- CCV | | | 1/18/2022 11:32: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04152 | 0.04152 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 83% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.04622 | 0.04622 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 92% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05001 | 0.05001 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04526 | 0.04526 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 91% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.03994 | 0.03994 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 80% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.03854 | 0.03854 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 77% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.04838 | 0.04838 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 10.47 | 10.47 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 84% | 90 | 110 | 0% | S |
| Cerium | A | mg/L | 0.04888 | 0.04888 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 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 | | | | | |
|---------------|--------|-------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985152 | CCV | ICPMS-6020-W- CCV | | | 1/18/2022 11:32: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Chromium | A | mg/L | 0.04628 | 0.04628 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 93% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04661 | 0.04661 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 93% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05019 | 0.05019 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.127 | 1.127 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 87% | 90 | 110 | 0% | S |
| Lanthanum | A | mg/L | 0.04914 | 0.04914 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04572 | 0.04572 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 91% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.3866 | 0.3866 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 62% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 10.38 | 10.38 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 83% | 90 | 110 | 0% | S |
| Manganese | A | mg/L | 0.04601 | 0.04601 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 92% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009002 | 0.0009002 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 90% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.04842 | 0.04842 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 97% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.04856 | 0.04856 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 10.57 | 10.57 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 85% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.05139 | 0.05139 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.1799 | 0.1799 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 90% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.01954 | 0.01954 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 98% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 10.96 | 10.96 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 88% | 90 | 110 | 0% | S |
| Strontium | A | mg/L | 0.04888 | 0.04888 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.04896 | 0.04896 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.04958 | 0.04958 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 99% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04498 | 0.04498 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 90% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04299 | 0.04299 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 86% | 90 | 110 | 0% | S |
| Uranium | A | mg/L | 0.04513 | 0.04513 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 90% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04877 | 0.04877 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 98% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.04963 | 0.04963 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 99% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.127 | 1.127 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|----------|--------|-------------------|------------|------------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14985153 | CCB | ICPMS-6020-W- CCB | | | 1/18/2022 11:38: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -2.724E-05 | -2.724E-05 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | | | 0% | |
| Antimony | A | mg/L | 0.0000424 | 0.0000424 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | 5.812E-06 | 5.812E-06 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | 2.646E-06 | 2.646E-06 | | 0 | 0 | 0 | 0.0001321 | 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 | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985153 | CCB | ICPMS-6020-W- | CCB | | 1/18/2022 11:38: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Beryllium | A | mg/L | 8.244E-07 | 8.244E-07 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.0001344 | 0.0001344 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 2.715E-06 | 2.715E-06 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | -0.0001496 | -0.0001496 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | | | 0% | |
| Cerium | A | mg/L | -4.724E-07 | -4.724E-07 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -1.253E-05 | -1.253E-05 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | -2.116E-06 | -2.116E-06 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | -1.419E-07 | -1.419E-07 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | 0.0001707 | 0.0001707 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | 0% | |
| Lanthanum | A | mg/L | 1.266E-06 | 1.266E-06 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 1.013E-06 | 1.013E-06 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | 0% | |
| Lithium | A | mg/L | 0.0007954 | 0.0007954 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | 0% | |
| Magnesium | A | mg/L | -0.0001394 | -0.0001394 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | | | 0% | |
| Manganese | A | mg/L | 0.00000222 | 0.00000222 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | 0% | |
| Mercury | A | mg/L | 6.972E-06 | 6.972E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00001747 | 0.00001747 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Nickel | A | mg/L | -0.0000109 | -0.0000109 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | -0.007152 | -0.007152 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | | | 0% | |
| Selenium | A | mg/L | 0.00001925 | 0.00001925 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | 0.0003317 | 0.0003317 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.00001058 | 0.00001058 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | 0.01226 | 0.01226 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | | | 0% | |
| Strontium | A | mg/L | -4.391E-07 | -4.391E-07 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 5.357E-06 | 5.357E-06 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00004591 | 0.00004591 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 5.988E-06 | 5.988E-06 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 6.132E-06 | 6.132E-06 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 1.417E-06 | 1.417E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0.00004501 | 0.00004501 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | -7.498E-05 | -7.498E-05 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | 0.0001707 | 0.0001707 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|------------|--------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985154 | Rinse | ICPMS-6020-W- | SAMP | | 1/18/2022 11:43: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00001098 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00001279 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00001622 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 2.825E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 1.461E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 2.631E-06 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 3.441E-06 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -1.919E-05 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 4.325E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 4.579E-06 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 3.364E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001004 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -1.508E-06 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.0001765 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 7.016E-06 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.00000688 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 5.997E-06 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00000326 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00002326 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.00004988 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | -5.328E-05 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|-----------|-----------|---------------|------------|---------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985155 | MB-162360 | ICPMS-6020-W- | MBLK | | 1/18/2022 11:49: | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0018 | 0 | | 0 | 0 | 0 | 0.0031975 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00003785 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00002225 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00008732 | 0 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | -3.666E-06 | 0 | | 0 | 0 | 0 | 0.0001563 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0.0004547 | 0 | | 0 | 0 | 0 | 0.01467 | 0.01467 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00001777 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0.008141 | 0 | | 0 | 0 | 0 | 0.1103481 | 0.1103481 | 150 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 1.576E-06 | 0 | | 0 | 0 | 0 | 0.00005 | 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 | | | | | |
|-----------------|-----------|--------------------|------------|------------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985155 | MB-162360 | ICPMS-6020-W- MBLK | | | 1/18/2022 11:49: | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Chromium | A | mg/L | 0.000676 | 0 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 4.654E-06 | 0 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0001632 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0.003345 | 0 | | 0 | 0 | 0 | 0.00513 | 0.00513 | 5 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 1.956E-06 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00002803 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.0005 | 1 | 0% | 0 | 0 | 0% | |
| Magnesium | A | mg/L | 0.001317 | 0 | | 0 | 0 | 0 | 0.0081522 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.00005451 | 0 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00005617 | 0 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.0002035 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | -0.01061 | 0 | | 0 | 0 | 0 | 0.0261205 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00002558 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.009822 | 0.009822 | | 0 | 0 | 0 | 0.0053212 | 0.0053212 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -5.298E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | -0.004526 | 0 | | 0 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.00002152 | 0 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 2.717E-06 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.0001205 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | -0.002358 | 0 | | 0 | 0 | 0 | 0.0011175 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.0002967 | 0.0002967 | | 0 | 0 | 0 | 0.0001634 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 2.491E-06 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0.00008229 | 0 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | 0.002962 | 0 | | 0 | 0 | 0 | 0.0065544 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | |
| Silica | C | mg/L | 0.02101122 | 0.02101122 | | 0 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 0.02101122 | 0.02101122 | | 0 | 0 | 0 | 0.0113831 | 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 | | | | | |
|-----------|-----------|--------------------|------------|---------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985156 | MB-162497 | ICPMS-6020-W- MBLK | | | 1/18/2022 11:55: | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001929 | 0 | | 0 | 0 | 0 | 0.0031975 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00001772 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 3.253E-06 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00003707 | 0 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 4.483E-07 | 0 | | 0 | 0 | 0 | 0.0001563 | 0.01 | 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 | | | | | |
|-----------------|-----------|--------------------|------------|------------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985156 | MB-162497 | ICPMS-6020-W- MBLK | | | 1/18/2022 11:55: | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Boron | A | mg/L | 0.0004885 | 0 | | 0 | 0 | 0 | 0.01467 | 0.01467 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00002346 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0.02088 | 0 | | 0 | 0 | 0 | 0.1103481 | 0.1103481 | 150 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 8.546E-07 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.0002287 | 0 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 1.238E-06 | 0 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.00009799 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0.001128 | 0 | | 0 | 0 | 0 | 0.00513 | 0.00513 | 5 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 1.238E-06 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001182 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.0005 | 1 | 0% | 0 | 0 | 0% | |
| Magnesium | A | mg/L | 0.001095 | 0 | | 0 | 0 | 0 | 0.0081522 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.00001966 | 0 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00003501 | 0 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 4.127E-06 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | -0.01123 | 0 | | 0 | 0 | 0 | 0.0261205 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00004939 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.008677 | 0.008677 | | 0 | 0 | 0 | 0.0053212 | 0.0053212 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -6.165E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | -0.007982 | 0 | | 0 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.00003052 | 0 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00000212 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00006674 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | -0.002409 | 0 | | 0 | 0 | 0 | 0.0011175 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.000252 | 0.000252 | | 0 | 0 | 0 | 0.0001634 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | -5.589E-08 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0.00003228 | 0 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | 0.0002024 | 0 | | 0 | 0 | 0 | 0.0065544 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | |
| Silica | C | mg/L | 0.01856184 | 0.01856184 | | 0 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 0.01856184 | 0.01856184 | | 0 | 0 | 0 | 0.0113831 | 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 | | | | | |
|----------|-----------|--------------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14985157 | MB-162992 | ICPMS-6020-W- MBLK | | | 1/19/2022 12:01: | 1 | 162992 | 1/17/2022 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 | | | | | |
|-----------------|-----------|--------------------|------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985157 | MB-162992 | ICPMS-6020-W- MBLK | | | 1/19/2022 12:01: | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.003364 | 0.003364 | | 0 | 0 | 0 | 0.0031975 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00004159 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00001939 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00002748 | 0 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 1.765E-06 | 0 | | 0 | 0 | 0 | 0.0001563 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0.0002253 | 0 | | 0 | 0 | 0 | 0.01467 | 0.01467 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.0000129 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0.0325 | 0 | | 0 | 0 | 0 | 0.1103481 | 0.1103481 | 150 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 1.196E-06 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00005728 | 0 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 5.189E-06 | 0 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -1.094E-05 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0.001344 | 0 | | 0 | 0 | 0 | 0.00513 | 0.00513 | 5 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 7.207E-07 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001277 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.0005 | 1 | 0% | 0 | 0 | 0% | |
| Magnesium | A | mg/L | 0.000806 | 0 | | 0 | 0 | 0 | 0.0081522 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.00001526 | 0 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0001409 | 0 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -3.491E-06 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | -0.01039 | 0 | | 0 | 0 | 0 | 0.0261205 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00001406 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.009825 | 0.009825 | | 0 | 0 | 0 | 0.0053212 | 0.0053212 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -6.698E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | -0.006902 | 0 | | 0 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.00006311 | 0 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 1.749E-07 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00005833 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | -0.002148 | 0 | | 0 | 0 | 0 | 0.0011175 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.000341 | 0.000341 | | 0 | 0 | 0 | 0.0001634 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 2.344E-07 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0.00004559 | 0 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | 0.006809 | 0.006809 | | 0 | 0 | 0 | 0.0065544 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | |
| Silica | C | mg/L | 0.02101764 | 0.02101764 | | 0 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 0.02101764 | 0.02101764 | | 0 | 0 | 0 | 0.0113831 | 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 | | | | | |
|-----------------|-------------|--------------------|------------|------------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985158 | LCS4-162360 | ICPMS-6020-W- LCS4 | | | 1/19/2022 12:06: | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.4409 | 0.4409 | | 0.5 | 0 | 0 | 0.0031975 | 0.0031975 | 1 | 88% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0953 | 0.0953 | | 0.1 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 95% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.09367 | 0.09367 | | 0.1 | 0 | 0 | 0.0002677 | 0.001 | 1 | 94% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.08864 | 0.08864 | | 0.1 | 0 | 0 | 0.0002408 | 0.001 | 1 | 89% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.04233 | 0.04233 | | 0.05 | 0 | 0 | 0.0001563 | 0.01 | 1 | 85% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.09163 | 0.09163 | | 0.1 | 0 | 0 | 0.01467 | 0.01467 | 1 | 92% | 80 | 120 | 0% | |
| Cadmium | A | mg/L | 0.04707 | 0.04707 | | 0.05 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 94% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 4.306 | 4.306 | | 5 | 0 | 0 | 0.1103481 | 0.1103481 | 150 | 86% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.09882 | 0.09882 | | 0.1 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 99% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.09932 | 0.09932 | | 0.1 | 0 | 0 | 0.00154 | 0.00154 | 1 | 99% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.0983 | 0.0983 | | 0.1 | 0 | 0 | 0.000072 | 0.001 | 1 | 98% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.1029 | 0.1029 | | 0.1 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 103% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.4456 | 0.4456 | | 0.5 | 0 | 0 | 0.00513 | 0.00513 | 5 | 89% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.09906 | 0.09906 | | 0.1 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 99% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.1018 | 0.1018 | | 0.1 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 102% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 4.758 | 4.758 | | 5 | 0 | 0 | 0.0081522 | 0.0081522 | 50 | 95% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.4905 | 0.4905 | | 0.5 | 0 | 0 | 0.0002139 | 0.001 | 1 | 98% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.1033 | 0.1033 | | 0.1 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 103% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.102 | 0.102 | | 0.1 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 102% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 4.458 | 4.458 | | 5 | 0 | 0 | 0.0261205 | 0.0261205 | 50 | 89% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.09472 | 0.09472 | | 0.1 | 0 | 0 | 0.0005855 | 0.001 | 1 | 95% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.9631 | 0.9631 | | 1 | 0 | 0 | 0.0053212 | 0.0053212 | 0.4 | 96% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.01058 | 0.01058 | | 0.01 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 106% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 4.8 | 4.8 | | 5 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 96% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.1031 | 0.1031 | | 0.1 | 0 | 0 | 0.0001264 | 0.001 | 1 | 103% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.1063 | 0.1063 | | 0.1 | 0 | 0 | 0.0001114 | 0.001 | 1 | 106% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.1029 | 0.1029 | | 0.1 | 0 | 0 | 0.00415 | 0.00415 | 1 | 103% | 80 | 120 | 0% | |
| Tin | A | mg/L | 0.09951 | 0.09951 | | 0.1 | 0 | 0 | 0.0011175 | 0.0011175 | 0.1 | 100% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.08925 | 0.08925 | | 0.1 | 0 | 0 | 0.0001634 | 0.001 | 1 | 89% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.09903 | 0.09903 | | 0.1 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 99% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.09778 | 0.09778 | | 0.1 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 98% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.09383 | 0.09383 | | 0.1 | 0 | 0 | 0.0065544 | 0.0065544 | 1 | 94% | 80 | 120 | 0% | |
| Silica | C | mg/L | 2.06026352 | 2.06026352 | | 0 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 2.06026352 | 2.06026352 | | 2.14 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 96% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|--------------------|------------|------------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985159 | LCS4-162497 | ICPMS-6020-W- LCS4 | | | 1/19/2022 12:12: | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.4533 | 0.4533 | | 0.5 | 0 | 0 | 0.0031975 | 0.0031975 | 1 | 91% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.09902 | 0.09902 | | 0.1 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 99% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.09696 | 0.09696 | | 0.1 | 0 | 0 | 0.0002677 | 0.001 | 1 | 97% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0923 | 0.0923 | | 0.1 | 0 | 0 | 0.0002408 | 0.001 | 1 | 92% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.04235 | 0.04235 | | 0.05 | 0 | 0 | 0.0001563 | 0.01 | 1 | 85% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.09027 | 0.09027 | | 0.1 | 0 | 0 | 0.01467 | 0.01467 | 1 | 90% | 80 | 120 | 0% | |
| Cadmium | A | mg/L | 0.04819 | 0.04819 | | 0.05 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 96% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 4.229 | 4.229 | | 5 | 0 | 0 | 0.1103481 | 0.1103481 | 150 | 85% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.1015 | 0.1015 | | 0.1 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 101% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.09992 | 0.09992 | | 0.1 | 0 | 0 | 0.00154 | 0.00154 | 1 | 100% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.09688 | 0.09688 | | 0.1 | 0 | 0 | 0.000072 | 0.001 | 1 | 97% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.1067 | 0.1067 | | 0.1 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 107% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.4521 | 0.4521 | | 0.5 | 0 | 0 | 0.00513 | 0.00513 | 5 | 90% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.1014 | 0.1014 | | 0.1 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 101% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.09865 | 0.09865 | | 0.1 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 99% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 4.754 | 4.754 | | 5 | 0 | 0 | 0.0081522 | 0.0081522 | 50 | 95% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.5075 | 0.5075 | | 0.5 | 0 | 0 | 0.0002139 | 0.001 | 1 | 102% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.104 | 0.104 | | 0.1 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 104% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.1028 | 0.1028 | | 0.1 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 103% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 4.674 | 4.674 | | 5 | 0 | 0 | 0.0261205 | 0.0261205 | 50 | 93% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.09448 | 0.09448 | | 0.1 | 0 | 0 | 0.0005855 | 0.001 | 1 | 94% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.9763 | 0.9763 | | 1 | 0 | 0 | 0.0053212 | 0.0053212 | 0.4 | 98% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.01065 | 0.01065 | | 0.01 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 106% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 4.957 | 4.957 | | 5 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 99% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.1053 | 0.1053 | | 0.1 | 0 | 0 | 0.0001264 | 0.001 | 1 | 105% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.1082 | 0.1082 | | 0.1 | 0 | 0 | 0.0001114 | 0.001 | 1 | 108% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.1064 | 0.1064 | | 0.1 | 0 | 0 | 0.00415 | 0.00415 | 1 | 106% | 80 | 120 | 0% | |
| Tin | A | mg/L | 0.09878 | 0.09878 | | 0.1 | 0 | 0 | 0.0011175 | 0.0011175 | 0.1 | 99% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.08993 | 0.08993 | | 0.1 | 0 | 0 | 0.0001634 | 0.001 | 1 | 90% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.09703 | 0.09703 | | 0.1 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 97% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.1025 | 0.1025 | | 0.1 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 102% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.09443 | 0.09443 | | 0.1 | 0 | 0 | 0.0065544 | 0.0065544 | 1 | 94% | 80 | 120 | 0% | |
| Silica | C | mg/L | 2.08850096 | 2.08850096 | | 0 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 2.08850096 | 2.08850096 | | 2.14 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|--------------------|------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985160 | LCS4-162992 | ICPMS-6020-W- LCS4 | | | 1/19/2022 12:18: | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.4505 | 0.4505 | | 0.5 | 0 | 0 | 0.0031975 | 0.0031975 | 1 | 90% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.09953 | 0.09953 | | 0.1 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 100% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.09471 | 0.09471 | | 0.1 | 0 | 0 | 0.0002677 | 0.001 | 1 | 95% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.09284 | 0.09284 | | 0.1 | 0 | 0 | 0.0002408 | 0.001 | 1 | 93% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.04314 | 0.04314 | | 0.05 | 0 | 0 | 0.0001563 | 0.01 | 1 | 86% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.09447 | 0.09447 | | 0.1 | 0 | 0 | 0.01467 | 0.01467 | 1 | 94% | 80 | 120 | 0% | |
| Cadmium | A | mg/L | 0.04859 | 0.04859 | | 0.05 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 97% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 4.387 | 4.387 | | 5 | 0 | 0 | 0.1103481 | 0.1103481 | 150 | 88% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.1039 | 0.1039 | | 0.1 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 104% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.09994 | 0.09994 | | 0.1 | 0 | 0 | 0.00154 | 0.00154 | 1 | 100% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.09973 | 0.09973 | | 0.1 | 0 | 0 | 0.000072 | 0.001 | 1 | 100% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.103 | 0.103 | | 0.1 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 103% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.4595 | 0.4595 | | 0.5 | 0 | 0 | 0.00513 | 0.00513 | 5 | 92% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.1021 | 0.1021 | | 0.1 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 102% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.09907 | 0.09907 | | 0.1 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 99% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 4.719 | 4.719 | | 5 | 0 | 0 | 0.0081522 | 0.0081522 | 50 | 94% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.4886 | 0.4886 | | 0.5 | 0 | 0 | 0.0002139 | 0.001 | 1 | 98% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.1043 | 0.1043 | | 0.1 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 104% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.1006 | 0.1006 | | 0.1 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 101% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 4.528 | 4.528 | | 5 | 0 | 0 | 0.0261205 | 0.0261205 | 50 | 91% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.09802 | 0.09802 | | 0.1 | 0 | 0 | 0.0005855 | 0.001 | 1 | 98% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.9809 | 0.9809 | | 1 | 0 | 0 | 0.0053212 | 0.0053212 | 0.4 | 98% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.01068 | 0.01068 | | 0.01 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 107% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 4.843 | 4.843 | | 5 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 97% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.1042 | 0.1042 | | 0.1 | 0 | 0 | 0.0001264 | 0.001 | 1 | 104% | 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 | 0.1044 | 0.1044 | | 0.1 | 0 | 0 | 0.00415 | 0.00415 | 1 | 104% | 80 | 120 | 0% | |
| Tin | A | mg/L | 0.1007 | 0.1007 | | 0.1 | 0 | 0 | 0.0011175 | 0.0011175 | 0.1 | 101% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.08743 | 0.08743 | | 0.1 | 0 | 0 | 0.0001634 | 0.001 | 1 | 87% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.1005 | 0.1005 | | 0.1 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 100% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.09842 | 0.09842 | | 0.1 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 98% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.09313 | 0.09313 | | 0.1 | 0 | 0 | 0.0065544 | 0.0065544 | 1 | 93% | 80 | 120 | 0% | |
| Silica | C | mg/L | 2.09834128 | 2.09834128 | | 0 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 2.09834128 | 2.09834128 | | 2.14 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985161 | Rinse | ICPMS-6020-W- | SAMP | | 1/19/2022 12:23: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00002179 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 1.755E-06 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00001718 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 1.753E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 6.778E-07 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -9.565E-06 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 7.209E-07 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -1.285E-05 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00000441 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 8.407E-07 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 6.599E-07 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001067 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -1.426E-06 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.0001478 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.00000467 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.00000276 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0004223 | 0.0004223 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Uranium | A | mg/L | 6.586E-06 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00008277 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 4.653E-06 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | 0.0001227 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|----------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985162 | B21121609-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 12:29: | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.01549 | 0.01549 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | B | mg/L | 0.0007783 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.001592 | 0.001592 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | B | mg/L | 0.05864 | 0.05864 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.0003391 | 0.0003391 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | B | mg/L | 0.0007825 | 0.0007825 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | B | mg/L | 0.005229 | 0.005229 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | D |
| Cobalt | B | mg/L | 0.002727 | 0.002727 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | B | mg/L | 0.01232 | 0.01232 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985162 | B21121609-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 12:29: | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lanthanum | B | mg/L | 0.0003431 | 0.0003431 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Manganese | B | mg/L | 0.3867 | 0.3867 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | B | mg/L | 0.0007438 | 0.0007438 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | B | mg/L | 0.01856 | 0.01856 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | D |
| Selenium | B | mg/L | 0.002536 | 0.002536 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -2.896E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.3112 | 0.3112 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.0001627 | 0.0001627 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | B | mg/L | 0.0002486 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 0.0000974 | 0.0000974 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Vanadium | B | mg/L | 0.01117 | 0.01117 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.05573 | 0.05573 | | 0 | 0 | 0 | 0.0065544 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|----|
| 14985163 | B21121611-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 12:35: | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.0007437 | 0.0007437 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Antimony | B | mg/L | 0.0009694 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.001138 | 0.001138 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | B | mg/L | 0.01492 | 0.01492 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00002223 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 0.0005363 | 0.0005363 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | B | mg/L | 0.002259 | 0.002259 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | D |
| Cobalt | B | mg/L | 0.001908 | 0.001908 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | B | mg/L | 0.00345 | 0.00345 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | JL |
| Lanthanum | B | mg/L | 0.0002061 | 0.0002061 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Manganese | B | mg/L | 0.1706 | 0.1706 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | B | mg/L | 0.003137 | 0.003137 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | B | mg/L | 0.005309 | 0.005309 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | D |
| Selenium | B | mg/L | 0.000249 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -2.768E-06 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.1754 | 0.1754 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.0001129 | 0.0001129 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | B | mg/L | 0.0001298 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 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 | | | | | |
|----------|---------------|---------------|------------|----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985163 | B21121611-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 12:35: | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Uranium | B | mg/L | 0.000139 | 0.000139 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Vanadium | B | mg/L | 0.01782 | 0.01782 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.005474 | 0 | | 0 | 0 | 0 | 0.0065544 | 0.0065544 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985164 | B21121613-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 12:40: | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.0002825 | 0.0002825 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Antimony | B | mg/L | 0.0001466 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.0002728 | 0.0002728 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | B | mg/L | 0.006222 | 0.006222 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00002373 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 0.0007694 | 0.0007694 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | B | mg/L | 0.006728 | 0.006728 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | D |
| Cobalt | B | mg/L | 0.0005254 | 0.0005254 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | B | mg/L | 0.001968 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Lanthanum | B | mg/L | 0.0002204 | 0.0002204 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Manganese | B | mg/L | 0.01634 | 0.01634 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | B | mg/L | 0.0007119 | 0.0007119 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | B | mg/L | 0.001439 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Selenium | B | mg/L | 0.0003382 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -5.794E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.05878 | 0.05878 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.00007152 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.0001519 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 0.00002998 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.04636 | 0.04636 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.004279 | 0 | | 0 | 0 | 0 | 0.0065544 | 0.0065544 | 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 | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|------------|--------|--------|--------|------|-----|------|------|---|
| 14985165 | B21121613-001 | ICPMS-6020-W- | SD | | 1/19/2022 12:46: | 5 | 162360 | 12/20/2021 | 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 | | | | | |
|-----------------|---------------|------------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985165 | B21121613-001 | ICPMS-6020-W- SD | | | 1/19/2022 12:46: | 5 | 162360 | 12/20/2021 | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.1531 | 0.7655 | | 0 | 0 | 0.7256 | 0.0159875 | 0.0159875 | 1 | 0% | 0 | 0 | 5% | |
| Antimony | A | mg/L | 0.00004984 | 0 | | 0 | 0 | 0 | 0.0049 | 0.0106858 | 0.1 | 0% | 0 | 0 | | |
| Arsenic | A | mg/L | 0.00004538 | 0 | | 0 | 0 | 0.0002728 | 0.0013383 | 0.0013383 | 1 | 0% | 0 | 0 | | |
| Barium | A | mg/L | 0.001417 | 0.007085 | | 0 | 0 | 0.006222 | 0.0012039 | 0.0012039 | 1 | 0% | 0 | 0 | | N |
| Beryllium | A | mg/L | -2.124E-06 | 0 | | 0 | 0 | 0 | 0.0007817 | 0.01 | 1 | 0% | 0 | 0 | | |
| Boron | A | mg/L | 0.03583 | 0.17915 | | 0 | 0 | 0.1833 | 0.07335 | 0.07335 | 1 | 0% | 0 | 0 | | N |
| Cadmium | A | mg/L | 0.00002957 | 0 | | 0 | 0 | 0 | 0.0002284 | 0.005 | 1 | 0% | 0 | 0 | | |
| Calcium | A | mg/L | 0.9429 | 4.7145 | | 0 | 0 | 4.68 | 0.5517403 | 0.5517403 | 150 | 0% | 0 | 0 | | N |
| Cerium | A | mg/L | 0.0001427 | 0.0007135 | | 0 | 0 | 0.0007694 | 0.00025 | 0.001 | 0.1 | 0% | 0 | 0 | | N |
| Chromium | A | mg/L | 0.001336 | 0 | | 0 | 0 | 0.006728 | 0.0077 | 0.0077 | 1 | 0% | 0 | 0 | | |
| Cobalt | A | mg/L | 0.0001174 | 0.000587 | | 0 | 0 | 0.0005254 | 0.00036 | 0.001 | 1 | 0% | 0 | 0 | | N |
| Copper | A | mg/L | 0.000529 | 0 | | 0 | 0 | 0 | 0.0099 | 0.017376 | 1 | 0% | 0 | 0 | | |
| Iron | A | mg/L | 0.137 | 0.685 | | 0 | 0 | 0.675 | 0.02565 | 0.02565 | 5 | 0% | 0 | 0 | 1% | |
| Lanthanum | A | mg/L | 0.00004486 | 0 | | 0 | 0 | 0.0002204 | 0.000275 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Lead | A | mg/L | 0.00007595 | 0 | | 0 | 0 | 0.0002825 | 0.0003858 | 0.001 | 1 | 0% | 0 | 0 | | |
| Magnesium | A | mg/L | 1.65 | 8.25 | | 0 | 0 | 8.141 | 0.0407608 | 0.0407608 | 50 | 0% | 0 | 0 | 1% | |
| Manganese | A | mg/L | 0.003293 | 0.016465 | | 0 | 0 | 0.01634 | 0.0010695 | 0.0010695 | 1 | 0% | 0 | 0 | 1% | |
| Molybdenum | A | mg/L | 0.0001458 | 0 | | 0 | 0 | 0.0007119 | 0.0008814 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Nickel | A | mg/L | 0.0003329 | 0 | | 0 | 0 | 0 | 0.0121000 | 0.0121000 | 1 | 0% | 0 | 0 | | |
| Potassium | A | mg/L | 0.5615 | 2.8075 | | 0 | 0 | 2.872 | 0.1306027 | 0.1306027 | 50 | 0% | 0 | 0 | 2% | |
| Selenium | A | mg/L | 0.000141 | 0 | | 0 | 0 | 0 | 0.0029274 | 0.0029274 | 1 | 0% | 0 | 0 | | |
| Silicon | A | mg/L | 6.756 | 33.78 | | 0 | 0 | 32.28 | 0.026606 | 0.026606 | 0.4 | 0% | 0 | 0 | 5% | |
| Silver | A | mg/L | -6.935E-05 | 0 | | 0 | 0 | 0 | 0.0002158 | 0.001 | 0.04 | 0% | 0 | 0 | | |
| Sodium | A | mg/L | 18.66 | 93.3 | | 0 | 0 | 93.05 | 3.6651346 | 3.6651346 | 50 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.01137 | 0.05685 | | 0 | 0 | 0.05878 | 0.0006322 | 0.001 | 1 | 0% | 0 | 0 | 3% | |
| Thallium | A | mg/L | 0.00004531 | 0 | | 0 | 0 | 0 | 0.0005569 | 0.001 | 1 | 0% | 0 | 0 | | |
| Thorium | A | mg/L | 0.00002416 | 0 | | 0 | 0 | 0 | 0.02075 | 0.02075 | 1 | 0% | 0 | 0 | | |
| Tin | A | mg/L | -0.002405 | 0 | | 0 | 0 | 0 | 0.0055874 | 0.0055874 | 0.1 | 0% | 0 | 0 | | |
| Titanium | A | mg/L | 0.008213 | 0.041065 | | 0 | 0 | 0.04094 | 0.0008168 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 6.249E-06 | 0 | | 0 | 0 | 0 | 0.0004224 | 0.0004224 | 1 | 0% | 0 | 0 | | |
| Vanadium | A | mg/L | 0.009307 | 0.046535 | | 0 | 0 | 0.04636 | 0.0105423 | 0.0105423 | 1 | 0% | 0 | 0 | | N |
| Zinc | A | mg/L | 0.004665 | 0 | | 0 | 0 | 0 | 0.0327721 | 0.0327721 | 1 | 0% | 0 | 0 | | |
| Silica | C | mg/L | 14.4524352 | 72.262176 | | 0 | 0 | 0 | 0.0569155 | 0.0569155 | 5 | 0% | 0 | 0 | | N |
| Silicon as SiO2 | C | mg/L | 14.4524352 | 72.262176 | | 0 | 0 | 0 | 0.0569155 | 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 | | | | | |
|---------------|--------|------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985166 | CCV | ICPMS-6020-W-CCV | | | 1/19/2022 12:52: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0423 | 0.0423 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 85% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.04757 | 0.04757 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 95% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.04927 | 0.04927 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04705 | 0.04705 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04257 | 0.04257 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 85% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.04156 | 0.04156 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 83% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.04688 | 0.04688 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 10.45 | 10.45 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 84% | 90 | 110 | 0% | S |
| Cerium | A | mg/L | 0.0481 | 0.0481 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 96% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04661 | 0.04661 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 93% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04903 | 0.04903 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.04869 | 0.04869 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.124 | 1.124 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 86% | 90 | 110 | 0% | S |
| Lanthanum | A | mg/L | 0.04718 | 0.04718 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 94% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.0473 | 0.0473 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.3517 | 0.3517 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 56% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 10.53 | 10.53 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 84% | 90 | 110 | 0% | S |
| Manganese | A | mg/L | 0.0468 | 0.0468 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009518 | 0.0009518 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 95% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05261 | 0.05261 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 105% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.04719 | 0.04719 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 9.874 | 9.874 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 79% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.05233 | 0.05233 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.1923 | 0.1923 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 96% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02156 | 0.02156 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 108% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 10.67 | 10.67 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 85% | 90 | 110 | 0% | S |
| Strontium | A | mg/L | 0.05183 | 0.05183 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.04981 | 0.04981 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05104 | 0.05104 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 102% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04605 | 0.04605 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 92% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04437 | 0.04437 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 89% | 90 | 110 | 0% | S |
| Uranium | A | mg/L | 0.04667 | 0.04667 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 93% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04654 | 0.04654 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 93% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.04861 | 0.04861 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 97% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.124 | 1.124 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14985167 | CCB | ICPMS-6020-W- | CCB | | 1/19/2022 12:57: | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -2.564E-05 | -2.564E-05 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.00005595 | 0.00005595 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | 3.337E-09 | 3.337E-09 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | 2.137E-06 | 2.137E-06 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | -2.663E-06 | -2.663E-06 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | 0.0005824 | 0.0005824 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | 1.792E-06 | 1.792E-06 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | -0.0003228 | -0.0003228 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | -8.865E-07 | -8.865E-07 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | -0.0000106 | -0.0000106 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | -1.878E-06 | -1.878E-06 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | -1.316E-05 | -1.316E-05 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | -2.542E-05 | -2.542E-05 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | 9.255E-07 | 9.255E-07 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 9.919E-07 | 9.919E-07 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | | 0% |
| Lithium | A | mg/L | -0.0004386 | -0.0004386 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | | 0% |
| Magnesium | A | mg/L | 0.0003167 | 0.0003167 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | 4.206E-06 | 4.206E-06 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 8.156E-06 | 8.156E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | | 0% |
| Molybdenum | A | mg/L | 7.645E-06 | 7.645E-06 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | -1.023E-05 | -1.023E-05 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | -0.01288 | -0.01288 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.00001531 | 0.00001531 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | 0.0004649 | 0.0004649 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | 0.0000122 | 0.0000122 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | 0.02955 | 0.02955 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | -1.015E-06 | -1.015E-06 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.00003635 | 0.00003635 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.00004573 | 0.00004573 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | -0.0001833 | -0.0001833 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.00000747 | 0.00000747 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 1.996E-06 | 1.996E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | 0.000124 | 0.000124 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | -0.0001295 | -0.0001295 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | -2.542E-05 | -2.542E-05 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|-----------------|---------------|---------------|------------|------------|------------------|--------|-----------|------------|-----------|-----------|--------|---------|-----|------|------|---|
| 14985168 | B21121613-001 | ICPMS-6020-W- | PDS1 | | 1/19/2022 1:03:4 | 1.03 | 162360 | 12/20/2021 | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.7425 | 0.764775 | | 0.0515 | 0.7256 | 0 | 0.0032934 | 0.0032934 | 1 | | 75 | 125 | 0% | A |
| Antimony | A | mg/L | 0.04482 | 0.0461646 | | 0.0515 | 0 | 0 | 0.0010094 | 0.0022013 | 0.1 | 90% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.04471 | 0.0460513 | | 0.0515 | 0.0002728 | 0 | 0.0002757 | 0.001 | 1 | 89% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.05086 | 0.0523858 | | 0.0515 | 0.006222 | 0 | 0.0002480 | 0.001 | 1 | 90% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.03675 | 0.0378525 | | 0.0515 | 0 | 0 | 0.0001610 | 0.01 | 1 | 73% | 75 | 125 | 0% | S |
| Boron | A | mg/L | 0.2122 | 0.218566 | | 0.0515 | 0.1833 | 0 | 0.0151101 | 0.0151101 | 1 | 68% | 75 | 125 | 0% | S |
| Cadmium | A | mg/L | 0.04341 | 0.0447123 | | 0.0515 | 0 | 0 | 4.704E-05 | 0.005 | 1 | 87% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 41.55 | 42.7965 | | 51.5 | 4.68 | 0 | 0.1136585 | 0.1136585 | 150 | 74% | 75 | 125 | 0% | S |
| Cerium | A | mg/L | 0.04724 | 0.0486572 | | 0.0515 | 0.0007694 | 0 | 0.0000515 | 0.001 | 0.1 | 93% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.04829 | 0.0497387 | | 0.0515 | 0.006728 | 0 | 0.0015862 | 0.0015862 | 1 | 84% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.04416 | 0.0454848 | | 0.0515 | 0.0005254 | 0 | 7.416E-05 | 0.001 | 1 | 87% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.04615 | 0.0475345 | | 0.0515 | 0 | 0 | 0.0020394 | 0.0035794 | 1 | 92% | 75 | 125 | 0% | |
| Iron | A | mg/L | 4.697 | 4.83791 | | 5.15 | 0.675 | 0 | 0.0052839 | 0.0052839 | 5 | 81% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 0.0002148 | 0.00022124 | | 0.0515 | 0.0002204 | 0 | 5.665E-05 | 0.001 | 0.1 | 0% | 75 | 125 | 0% | S |
| Lead | A | mg/L | 0.04422 | 0.0455466 | | 0.0515 | 0.0002825 | 0 | 7.947E-05 | 0.001 | 1 | 88% | 82 | 120 | 0% | |
| Magnesium | A | mg/L | 53.39 | 54.9917 | | 51.5 | 8.141 | 0 | 0.0083967 | 0.0083967 | 50 | 91% | 75 | 125 | 0% | |
| Manganese | A | mg/L | 0.05941 | 0.0611923 | | 0.0515 | 0.01634 | 0 | 0.0002203 | 0.001 | 1 | 87% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.05166 | 0.0532098 | | 0.0515 | 0.0007119 | 0 | 0.0001816 | 0.001 | 0.1 | 102% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.04525 | 0.0466075 | | 0.0515 | 0 | 0 | 0.0024926 | 0.0024926 | 1 | 91% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 43.4 | 44.702 | | 51.5 | 2.872 | 0 | 0.0269042 | 0.0269042 | 50 | 81% | 75 | 125 | 0% | |
| Selenium | A | mg/L | 0.0457 | 0.047071 | | 0.0515 | 0 | 0 | 0.0006030 | 0.001 | 1 | 91% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 31.45 | 32.3935 | | 0.206 | 32.28 | 0 | 0.0054808 | 0.0054808 | 0.4 | | 0 | 0 | 0% | A |
| Silver | A | mg/L | 0.02093 | 0.0215579 | | 0.0206 | 0 | 0 | 4.446E-05 | 0.001 | 0.04 | 105% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 133.1 | 137.093 | | 51.5 | 93.05 | 0 | 0.7550177 | 0.7550177 | 50 | 86% | 75 | 125 | 0% | |
| Strontium | A | mg/L | 0.1064 | 0.109592 | | 0.0515 | 0.05878 | 0 | 0.0001302 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.0482 | 0.049646 | | 0.0515 | 0 | 0 | 0.0001147 | 0.001 | 1 | 96% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.05081 | 0.0523343 | | 0.0515 | 0 | 0 | 0.0042745 | 0.0042745 | 1 | 102% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.04519 | 0.0465457 | | 0.0515 | 0 | 0 | 0.001151 | 0.001151 | 0.1 | 90% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.08286 | 0.0853458 | | 0.0515 | 0.04094 | 0 | 0.0001683 | 0.001 | 1 | 86% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.04418 | 0.0455054 | | 0.0515 | 0 | 0 | 8.702E-05 | 0.0003 | 1 | 88% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.08735 | 0.0899705 | | 0.0515 | 0.04636 | 0 | 0.0021717 | 0.0021717 | 1 | 85% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.04312 | 0.0444136 | | 0.0515 | 0 | 0 | 0.0067511 | 0.0067511 | 1 | 86% | 75 | 125 | 0% | |
| Silica | C | mg/L | 67.27784 | 69.2961752 | | 0 | 0 | 0 | 0.0117246 | 0.0117246 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 67.27784 | 69.2961752 | | 0.0515 | 0 | 0 | 0.0117246 | 0.0117246 | 5 | 134556% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|-------------------|------------|-----------|------------------|-------|-----------|------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14985169 | B21121613-001 | ICPMS-6020-W- MS4 | | | 1/19/2022 1:09:2 | 1 | 162360 | 12/20/2021 | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 1.53 | 1.53 | | 0.5 | 0.7256 | 0 | 0.0031975 | 0.0031975 | 1 | 161% | 75 | 125 | 0% | S |
| Antimony | A | mg/L | 0.09734 | 0.09734 | | 0.1 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 97% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.09507 | 0.09507 | | 0.1 | 0.0002728 | 0 | 0.0002677 | 0.001 | 1 | 95% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.09726 | 0.09726 | | 0.1 | 0.006222 | 0 | 0.0002408 | 0.001 | 1 | 91% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.04008 | 0.04008 | | 0.05 | 0 | 0 | 0.0001563 | 0.01 | 1 | 80% | 75 | 125 | 0% | |
| Boron | A | mg/L | 0.2785 | 0.2785 | | 0.1 | 0.1833 | 0 | 0.01467 | 0.01467 | 1 | 95% | 75 | 125 | 0% | |
| Cadmium | A | mg/L | 0.04623 | 0.04623 | | 0.05 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 92% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 8.584 | 8.584 | | 5 | 4.68 | 0 | 0.1103481 | 0.1103481 | 150 | 78% | 75 | 125 | 0% | |
| Cerium | A | mg/L | 0.103 | 0.103 | | 0.1 | 0.0007694 | 0 | 0.00005 | 0.001 | 0.1 | 102% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.1001 | 0.1001 | | 0.1 | 0.006728 | 0 | 0.00154 | 0.00154 | 1 | 93% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.09414 | 0.09414 | | 0.1 | 0.0005254 | 0 | 0.000072 | 0.001 | 1 | 94% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.1014 | 0.1014 | | 0.1 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 101% | 75 | 125 | 0% | |
| Iron | A | mg/L | 1.124 | 1.124 | | 0.5 | 0.675 | 0 | 0.00513 | 0.00513 | 5 | 90% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 0.1025 | 0.1025 | | 0.1 | 0.0002204 | 0 | 0.000055 | 0.001 | 0.1 | 102% | 75 | 125 | 0% | |
| Lead | A | mg/L | 0.09675 | 0.09675 | | 0.1 | 0.0002825 | 0 | 7.716E-05 | 0.001 | 1 | 96% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 12.69 | 12.69 | | 5 | 8.141 | 0 | 0.0081522 | 0.0081522 | 50 | 91% | 75 | 125 | 0% | |
| Manganese | A | mg/L | 0.4914 | 0.4914 | | 0.5 | 0.01634 | 0 | 0.0002139 | 0.001 | 1 | 95% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.1023 | 0.1023 | | 0.1 | 0.0007119 | 0 | 0.0001763 | 0.001 | 0.1 | 102% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.09915 | 0.09915 | | 0.1 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 99% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 6.962 | 6.962 | | 5 | 2.872 | 0 | 0.0261205 | 0.0261205 | 50 | 82% | 75 | 125 | 0% | |
| Selenium | A | mg/L | 0.09291 | 0.09291 | | 0.1 | 0 | 0 | 0.0005855 | 0.001 | 1 | 93% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 30.46 | 30.46 | | 1 | 32.28 | 0 | 0.0053212 | 0.0053212 | 0.4 | | 75 | 125 | 0% | A |
| Silver | A | mg/L | 0.009911 | 0.009911 | | 0.01 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 99% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 93.73 | 93.73 | | 5 | 93.05 | 0 | 0.7330269 | 0.7330269 | 50 | | 75 | 125 | 0% | A |
| Strontium | A | mg/L | 0.1581 | 0.1581 | | 0.1 | 0.05878 | 0 | 0.0001264 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.1033 | 0.1033 | | 0.1 | 0 | 0 | 0.0001114 | 0.001 | 1 | 103% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.1057 | 0.1057 | | 0.1 | 0 | 0 | 0.00415 | 0.00415 | 1 | 106% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.09758 | 0.09758 | | 0.1 | 0 | 0 | 0.0011175 | 0.0011175 | 0.1 | 98% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.1307 | 0.1307 | | 0.1 | 0.04094 | 0 | 0.0001634 | 0.001 | 1 | 90% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.0988 | 0.0988 | | 0.1 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 99% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.1402 | 0.1402 | | 0.1 | 0.04636 | 0 | 0.0021085 | 0.0021085 | 1 | 94% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.0957 | 0.0957 | | 0.1 | 0 | 0 | 0.0065544 | 0.0065544 | 1 | 96% | 75 | 125 | 0% | |
| Silica | C | mg/L | 65.160032 | 65.160032 | | 0 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 65.160032 | 65.160032 | | 2.14 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 3045% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|-------------------|------------|-----------|------------------|-------|-----------|------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14985170 | B21121613-001 | ICPMS-6020-W-MSD4 | | | 1/19/2022 1:14:5 | 1 | 162360 | 12/20/2021 | 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 | 1.482 | 1.482 | | 0.5 | 0.7256 | 1.53 | 0.0031975 | 0.0031975 | 1 | 151% | 75 | 125 | 3% | S |
| Antimony | A | mg/L | 0.09632 | 0.09632 | | 0.1 | 0 | 0.09734 | 0.00098 | 0.0021372 | 0.1 | 96% | 75 | 125 | 1% | |
| Arsenic | A | mg/L | 0.09479 | 0.09479 | | 0.1 | 0.0002728 | 0.09507 | 0.0002677 | 0.001 | 1 | 95% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.09702 | 0.09702 | | 0.1 | 0.006222 | 0.09726 | 0.0002408 | 0.001 | 1 | 91% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.03908 | 0.03908 | | 0.05 | 0 | 0.04008 | 0.0001563 | 0.01 | 1 | 78% | 75 | 125 | 3% | |
| Boron | A | mg/L | 0.2627 | 0.2627 | | 0.1 | 0.1833 | 0.2785 | 0.01467 | 0.01467 | 1 | 79% | 75 | 125 | 6% | |
| Cadmium | A | mg/L | 0.04626 | 0.04626 | | 0.05 | 0 | 0.04623 | 4.567E-05 | 0.005 | 1 | 93% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 8.945 | 8.945 | | 5 | 4.68 | 8.584 | 0.1103481 | 0.1103481 | 150 | 85% | 75 | 125 | 4% | |
| Cerium | A | mg/L | 0.102 | 0.102 | | 0.1 | 0.0007694 | 0.103 | 0.00005 | 0.001 | 0.1 | 101% | 75 | 125 | 1% | |
| Chromium | A | mg/L | 0.1016 | 0.1016 | | 0.1 | 0.006728 | 0.1001 | 0.00154 | 0.00154 | 1 | 95% | 75 | 125 | 1% | |
| Cobalt | A | mg/L | 0.09659 | 0.09659 | | 0.1 | 0.0005254 | 0.09414 | 0.000072 | 0.001 | 1 | 96% | 75 | 125 | 3% | |
| Copper | A | mg/L | 0.1017 | 0.1017 | | 0.1 | 0 | 0.1014 | 0.00198 | 0.0034752 | 1 | 102% | 75 | 125 | 0% | |
| Iron | A | mg/L | 1.129 | 1.129 | | 0.5 | 0.675 | 1.124 | 0.00513 | 0.00513 | 5 | 91% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 0.09923 | 0.09923 | | 0.1 | 0.0002204 | 0.1025 | 0.000055 | 0.001 | 0.1 | 99% | 75 | 125 | 3% | |
| Lead | A | mg/L | 0.09689 | 0.09689 | | 0.1 | 0.0002825 | 0.09675 | 7.716E-05 | 0.001 | 1 | 97% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 12.16 | 12.16 | | 5 | 8.141 | 12.69 | 0.0081522 | 0.0081522 | 50 | 80% | 75 | 125 | 4% | |
| Manganese | A | mg/L | 0.4899 | 0.4899 | | 0.5 | 0.01634 | 0.4914 | 0.0002139 | 0.001 | 1 | 95% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.1053 | 0.1053 | | 0.1 | 0.0007119 | 0.1023 | 0.0001763 | 0.001 | 0.1 | 105% | 75 | 125 | 3% | |
| Nickel | A | mg/L | 0.09788 | 0.09788 | | 0.1 | 0 | 0.09915 | 0.0024200 | 0.0024200 | 1 | 98% | 75 | 125 | 1% | |
| Potassium | A | mg/L | 7.154 | 7.154 | | 5 | 2.872 | 6.962 | 0.0261205 | 0.0261205 | 50 | 86% | 75 | 125 | 3% | |
| Selenium | A | mg/L | 0.09697 | 0.09697 | | 0.1 | 0 | 0.09291 | 0.0005855 | 0.001 | 1 | 97% | 75 | 125 | 4% | |
| Silicon | A | mg/L | 33.21 | 33.21 | | 1 | 32.28 | 30.46 | 0.0053212 | 0.0053212 | 0.4 | | 75 | 125 | 9% | A |
| Silver | A | mg/L | 0.0102 | 0.0102 | | 0.01 | 0 | 0.009911 | 4.316E-05 | 0.001 | 0.04 | 102% | 75 | 125 | 3% | |
| Sodium | A | mg/L | 94.54 | 94.54 | | 5 | 93.05 | 93.73 | 0.7330269 | 0.7330269 | 50 | | 75 | 125 | 1% | A |
| Strontium | A | mg/L | 0.1644 | 0.1644 | | 0.1 | 0.05878 | 0.1581 | 0.0001264 | 0.001 | 1 | 106% | 75 | 125 | 4% | |
| Thallium | A | mg/L | 0.1036 | 0.1036 | | 0.1 | 0 | 0.1033 | 0.0001114 | 0.001 | 1 | 104% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.1047 | 0.1047 | | 0.1 | 0 | 0.1057 | 0.00415 | 0.00415 | 1 | 105% | 75 | 125 | 1% | |
| Tin | A | mg/L | 0.0988 | 0.0988 | | 0.1 | 0 | 0.09758 | 0.0011175 | 0.0011175 | 0.1 | 99% | 75 | 125 | 1% | |
| Titanium | A | mg/L | 0.1261 | 0.1261 | | 0.1 | 0.04094 | 0.1307 | 0.0001634 | 0.001 | 1 | 85% | 75 | 125 | 4% | |
| Uranium | A | mg/L | 0.09639 | 0.09639 | | 0.1 | 0 | 0.0988 | 8.449E-05 | 0.0003 | 1 | 96% | 75 | 125 | 2% | |
| Vanadium | A | mg/L | 0.1433 | 0.1433 | | 0.1 | 0.04636 | 0.1402 | 0.0021085 | 0.0021085 | 1 | 97% | 75 | 125 | 2% | |
| Zinc | A | mg/L | 0.09489 | 0.09489 | | 0.1 | 0 | 0.0957 | 0.0065544 | 0.0065544 | 1 | 95% | 75 | 125 | 1% | |
| Silica | C | mg/L | 71.042832 | 71.042832 | | 0 | 0 | 65.160032 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 9% | |
| Silicon as SiO2 | C | mg/L | 71.042832 | 71.042832 | | 2.14 | 0 | 65.160032 | 0.0113831 | 0.0113831 | 5 | 3320% | 75 | 125 | 9% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985171 | Rinse | ICPMS-6020-W- | SAMP | | 1/19/2022 1:20:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00002394 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.0000347 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00002452 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 6.228E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 8.822E-07 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -2.643E-06 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 3.904E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 1.348E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 6.592E-06 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 8.147E-06 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.003185 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 5.278E-06 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 8.298E-06 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0004456 | 0.0004456 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Uranium | A | mg/L | 5.739E-06 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00007319 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00002086 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985172 | B21121616-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 1:26:1 | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.0001498 | 0.0001498 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Antimony | B | mg/L | 0.0001651 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.0001418 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | B | mg/L | 0.0168 | 0.0168 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00002539 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 0.000152 | 0.000152 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Copper | B | mg/L | 0.001623 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Lanthanum | B | mg/L | 0.00004098 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Molybdenum | B | mg/L | 0.0002318 | 0.0002318 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | B | mg/L | 0.0008616 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Selenium | B | mg/L | 0.00006629 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -4.975E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.1019 | 0.1019 | | 0 | 0 | 0 | 0.0001264 | 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 | | | | | |
|----------|---------------|---------------|------------|----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985172 | B21121616-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 1:26:1 | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Thallium | B | mg/L | 0.000169 | 0.000169 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | B | mg/L | 0.0001742 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 9.845E-06 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.004965 | 0 | | 0 | 0 | 0 | 0.0065544 | 0.0065544 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|----|
| 14985173 | B21121622-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 1:32:0 | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.0002319 | 0.0002319 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Antimony | B | mg/L | 0.0008118 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.001421 | 0.001421 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | B | mg/L | 0.02703 | 0.02703 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00001635 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 0.001069 | 0.001069 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Copper | B | mg/L | 0.002546 | 0.002546 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | JL |
| Lanthanum | B | mg/L | 0.0004916 | 0.0004916 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Molybdenum | B | mg/L | 0.00826 | 0.00826 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | B | mg/L | 0.001951 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Selenium | B | mg/L | 0.0001618 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -3.894E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.1509 | 0.1509 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.000141 | 0.000141 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | B | mg/L | 0.0003238 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 0.0004435 | 0.0004435 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.06934 | 0.06934 | | 0 | 0 | 0 | 0.0065544 | 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 | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985174 | B21121622-002 | ICPMS-6020-W- | SAMP | | 1/19/2022 1:37:4 | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.00005462 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Antimony | B | mg/L | 0.00007404 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.0002417 | 0 | | 0 | 0 | 0 | 0.0002677 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985174 | B21121622-002 | ICPMS-6020-W- | SAMP | | 1/19/2022 1:37:4 | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Barium | B | mg/L | 0.007637 | 0.007637 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00001143 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 0.0003025 | 0.0003025 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Copper | B | mg/L | 0.001077 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Lanthanum | B | mg/L | 0.0001132 | 0.0001132 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Molybdenum | B | mg/L | 0.001205 | 0.001205 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | B | mg/L | 0.0008456 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Selenium | B | mg/L | 0.0001173 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -6.356E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.1343 | 0.1343 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.00009268 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00008225 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 0.00003242 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.09456 | 0.09456 | | 0 | 0 | 0 | 0.0065544 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985175 | B21121622-003 | ICPMS-6020-W- | SAMP | | 1/19/2022 1:43:2 | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.00001692 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Antimony | B | mg/L | 0.00005877 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.00004992 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | B | mg/L | 0.003049 | 0.003049 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00002257 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 1.745E-06 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Copper | B | mg/L | 0.0001763 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Lanthanum | B | mg/L | 2.172E-06 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Molybdenum | B | mg/L | 0.0002784 | 0.0002784 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | B | mg/L | 0.002836 | 0.002836 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | D |
| Selenium | B | mg/L | 0.0000937 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -6.761E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.07504 | 0.07504 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.00006516 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00005214 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 0.00000782 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 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 | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985175 | B21121622-003 | ICPMS-6020-W- | SAMP | | 1/19/2022 1:43:2 | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Zinc | B | mg/L | 0.00816 | 0.00816 | | 0 | 0 | 0 | 0.0065544 | 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 | | | | | |
|------------|---------------|---------------|------------|------------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985176 | B21121623-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 1:49:1 | 1 | 162360 | 12/20/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.00005183 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Antimony | B | mg/L | 0.000145 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.0009841 | 0.0009841 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | B | mg/L | 0.003457 | 0.003457 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00002191 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 0.00009192 | 0.00009192 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Copper | B | mg/L | 0.001024 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Lanthanum | B | mg/L | 0.00002541 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Molybdenum | B | mg/L | 0.001064 | 0.001064 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | B | mg/L | 0.001255 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Selenium | B | mg/L | 0.00004585 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -2.172E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.08631 | 0.08631 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.00005021 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00004748 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 0.00001922 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.001438 | 0 | | 0 | 0 | 0 | 0.0065544 | 0.0065544 | 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 | | | | | |
|----------|---------------|---------------|------------|------------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985177 | B21121957-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 1:54:5 | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.00008207 | 0.00008207 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Antimony | B | mg/L | 0.00006596 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.00007358 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | B | mg/L | 0.002042 | 0.002042 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00001894 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 2.706E-06 | 0 | | 0 | 0 | 0 | 0.00005 | 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 | | | | | |
|------------|---------------|--------------------|------------|----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985177 | B21121957-001 | ICPMS-6020-W- SAMP | | | 1/19/2022 1:54:5 | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Copper | B | mg/L | 0.0003313 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Lanthanum | B | mg/L | 4.434E-06 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Molybdenum | B | mg/L | 0.001054 | 0.001054 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | B | mg/L | 0.0002367 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Selenium | B | mg/L | 0.0001721 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -6.882E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.06671 | 0.06671 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.00004048 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00003527 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 6.631E-06 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.01215 | 0.01215 | | 0 | 0 | 0 | 0.0065544 | 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 | | | | | |
|------------|---------------|------------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985178 | B21121957-001 | ICPMS-6020-W- SD | | | 1/19/2022 2:00:3 | 5 | 162497 | 12/27/2021 | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.002488 | 0 | | 0 | 0 | 0.004864 | 0.0159875 | 0.0159875 | 1 | 0% | 0 | 0 | | |
| Antimony | A | mg/L | 0.00002524 | 0 | | 0 | 0 | 0 | 0.0049 | 0.0106858 | 0.1 | 0% | 0 | 0 | | |
| Arsenic | A | mg/L | 0.00002032 | 0 | | 0 | 0 | 0 | 0.0013383 | 0.0013383 | 1 | 0% | 0 | 0 | | |
| Barium | A | mg/L | 0.0005721 | 0.0028605 | | 0 | 0 | 0.002042 | 0.0012039 | 0.0012039 | 1 | 0% | 0 | 0 | | N |
| Beryllium | A | mg/L | -6.933E-06 | 0 | | 0 | 0 | 0 | 0.0007817 | 0.01 | 1 | 0% | 0 | 0 | | |
| Boron | A | mg/L | 0.01137 | 0 | | 0 | 0 | 0.05816 | 0.07335 | 0.07335 | 1 | 0% | 0 | 0 | | |
| Cadmium | A | mg/L | 0.00002262 | 0 | | 0 | 0 | 0 | 0.0002284 | 0.005 | 1 | 0% | 0 | 0 | | |
| Calcium | A | mg/L | 1.199 | 5.995 | | 0 | 0 | 5.876 | 0.5517403 | 0.5517403 | 150 | 0% | 0 | 0 | 2% | |
| Cerium | A | mg/L | 3.454E-06 | 0 | | 0 | 0 | 0 | 0.00025 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Chromium | A | mg/L | 0.0006161 | 0 | | 0 | 0 | 0.003264 | 0.0077 | 0.0077 | 1 | 0% | 0 | 0 | | |
| Cobalt | A | mg/L | 6.697E-06 | 0 | | 0 | 0 | 0 | 0.00036 | 0.001 | 1 | 0% | 0 | 0 | | |
| Copper | A | mg/L | 0.0002387 | 0 | | 0 | 0 | 0 | 0.0099 | 0.017376 | 1 | 0% | 0 | 0 | | |
| Iron | A | mg/L | 0.003757 | 0 | | 0 | 0 | 0.01726 | 0.02565 | 0.02565 | 5 | 0% | 0 | 0 | | |
| Lanthanum | A | mg/L | 1.759E-06 | 0 | | 0 | 0 | 0 | 0.000275 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Lead | A | mg/L | 0.00004032 | 0 | | 0 | 0 | 8.207E-05 | 0.0003858 | 0.001 | 1 | 0% | 0 | 0 | | |
| Magnesium | A | mg/L | 1.48 | 7.4 | | 0 | 0 | 7.536 | 0.0407608 | 0.0407608 | 50 | 0% | 0 | 0 | 2% | |
| Manganese | A | mg/L | 0.0002195 | 0.0010975 | | 0 | 0 | 0.0008687 | 0.0010695 | 0.0010695 | 1 | 0% | 0 | 0 | | N |
| Molybdenum | A | mg/L | 0.0002146 | 0.001073 | | 0 | 0 | 0.001054 | 0.0008814 | 0.001 | 0.1 | 0% | 0 | 0 | | N |
| Nickel | A | mg/L | 0.00006789 | 0 | | 0 | 0 | 0 | 0.0121000 | 0.0121000 | 1 | 0% | 0 | 0 | | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|------------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985178 | B21121957-001 | ICPMS-6020-W- SD | | | 1/19/2022 2:00:3 | 5 | 162497 | 12/27/2021 | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Potassium | A | mg/L | 0.2774 | 1.387 | | 0 | 0 | 1.433 | 0.1306027 | 0.1306027 | 50 | 0% | 0 | 0 | 3% | |
| Selenium | A | mg/L | 0.00002468 | 0 | | 0 | 0 | 0 | 0.0029274 | 0.0029274 | 1 | 0% | 0 | 0 | | |
| Silicon | A | mg/L | 4.227 | 21.135 | | 0 | 0 | 21.75 | 0.026606 | 0.026606 | 0.4 | 0% | 0 | 0 | 3% | |
| Silver | A | mg/L | -7.267E-05 | 0 | | 0 | 0 | 0 | 0.0002158 | 0.001 | 0.04 | 0% | 0 | 0 | | |
| Sodium | A | mg/L | 6.351 | 31.755 | | 0 | 0 | 34.52 | 3.6651346 | 3.6651346 | 50 | 0% | 0 | 0 | | N |
| Strontium | A | mg/L | 0.01275 | 0.06375 | | 0 | 0 | 0.06671 | 0.0006322 | 0.001 | 1 | 0% | 0 | 0 | 5% | |
| Thallium | A | mg/L | 0.00003567 | 0 | | 0 | 0 | 0 | 0.0005569 | 0.001 | 1 | 0% | 0 | 0 | | |
| Thorium | A | mg/L | -2.253E-06 | 0 | | 0 | 0 | 0 | 0.02075 | 0.02075 | 1 | 0% | 0 | 0 | | |
| Tin | A | mg/L | -0.002346 | 0 | | 0 | 0 | 0 | 0.0055874 | 0.0055874 | 0.1 | 0% | 0 | 0 | | |
| Titanium | A | mg/L | 0.000335 | 0.001675 | | 0 | 0 | 0.001999 | 0.0008168 | 0.001 | 1 | 0% | 0 | 0 | | N |
| Uranium | A | mg/L | 9.779E-07 | 0 | | 0 | 0 | 0 | 0.0004224 | 0.0004224 | 1 | 0% | 0 | 0 | | |
| Vanadium | A | mg/L | 0.003874 | 0.01937 | | 0 | 0 | 0.01937 | 0.0105423 | 0.0105423 | 1 | 0% | 0 | 0 | | N |
| Zinc | A | mg/L | 0.005497 | 0 | | 0 | 0 | 0.01215 | 0.0327721 | 0.0327721 | 1 | 0% | 0 | 0 | | |
| Silica | C | mg/L | 9.0423984 | 45.211992 | | 0 | 0 | 0 | 0.0569155 | 0.0569155 | 5 | 0% | 0 | 0 | | N |
| Silicon as SiO2 | C | mg/L | 9.0423984 | 45.211992 | | 0 | 0 | 0 | 0.0569155 | 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 | | | | | |
|-----------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985179 | CCV | ICPMS-6020-W- CCV | | | 1/19/2022 2:06:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.03756 | 0.03756 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 75% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.04524 | 0.04524 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 90% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.04861 | 0.04861 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04541 | 0.04541 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 91% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.03682 | 0.03682 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 74% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.03565 | 0.03565 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 71% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.04678 | 0.04678 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 10.09 | 10.09 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 81% | 90 | 110 | 0% | S |
| Cerium | A | mg/L | 0.04899 | 0.04899 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.0439 | 0.0439 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 88% | 90 | 110 | 0% | S |
| Cobalt | A | mg/L | 0.04433 | 0.04433 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 89% | 90 | 110 | 0% | S |
| Copper | A | mg/L | 0.04732 | 0.04732 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.079 | 1.079 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 83% | 90 | 110 | 0% | S |
| Lanthanum | A | mg/L | 0.04896 | 0.04896 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04597 | 0.04597 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 92% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|-------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985179 | CCV | ICPMS-6020-W- CCV | | | 1/19/2022 2:06:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lithium | A | mg/L | 0.2878 | 0.2878 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 46% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 10.26 | 10.26 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 82% | 90 | 110 | 0% | S |
| Manganese | A | mg/L | 0.04365 | 0.04365 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 87% | 90 | 110 | 0% | S |
| Mercury | A | mg/L | 0.0009007 | 0.0009007 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 90% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05084 | 0.05084 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.04634 | 0.04634 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 93% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 9.529 | 9.529 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 76% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.05288 | 0.05288 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2198 | 0.2198 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 110% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02102 | 0.02102 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 105% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 10.45 | 10.45 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 84% | 90 | 110 | 0% | S |
| Strontium | A | mg/L | 0.05126 | 0.05126 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05067 | 0.05067 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05245 | 0.05245 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 105% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04452 | 0.04452 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 89% | 90 | 110 | 0% | S |
| Titanium | A | mg/L | 0.03986 | 0.03986 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 80% | 90 | 110 | 0% | S |
| Uranium | A | mg/L | 0.04525 | 0.04525 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 90% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04456 | 0.04456 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 89% | 90 | 110 | 0% | S |
| Zinc | A | mg/L | 0.04732 | 0.04732 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 95% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.079 | 1.079 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|-----------|--------|-------------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985180 | CCB | ICPMS-6020-W- CCB | | | 1/19/2022 2:12:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -4.314E-05 | -4.314E-05 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00006202 | 0.00006202 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.00001029 | 0.00001029 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | 2.698E-06 | 2.698E-06 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | 3.545E-06 | 3.545E-06 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.0003272 | 0.0003272 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 1.634E-06 | 1.634E-06 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | -0.0001894 | -0.0001894 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | | | 0% | |
| Cerium | A | mg/L | -7.381E-07 | -7.381E-07 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -1.729E-05 | -1.729E-05 | | 0 | 0 | 0 | 0.0005481 | 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 | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985180 | CCB | ICPMS-6020-W- | CCB | | 1/19/2022 2:12:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cobalt | A | mg/L | -7.859E-07 | -7.859E-07 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | -1.534E-05 | -1.534E-05 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | -4.669E-05 | -4.669E-05 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | 0% | |
| Lanthanum | A | mg/L | 4.451E-07 | 4.451E-07 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 1.127E-06 | 1.127E-06 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | 0% | |
| Lithium | A | mg/L | 0.0006693 | 0.0006693 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | 0% | |
| Magnesium | A | mg/L | 0.0004189 | 0.0004189 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | | | 0% | |
| Manganese | A | mg/L | 2.445E-06 | 2.445E-06 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | 0% | |
| Mercury | A | mg/L | 7.148E-06 | 7.148E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 8.264E-06 | 8.264E-06 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Nickel | A | mg/L | -1.633E-05 | -1.633E-05 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | -0.007694 | -0.007694 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | | | 0% | |
| Selenium | A | mg/L | 0.00003774 | 0.00003774 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | 0.03156 | 0.03156 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 8.521E-06 | 8.521E-06 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | 0.06035 | 0.06035 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | | | 0% | |
| Strontium | A | mg/L | -4.286E-07 | -4.286E-07 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00003278 | 0.00003278 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00004508 | 0.00004508 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | -8.168E-05 | -8.168E-05 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00003013 | 0.00003013 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 2.703E-06 | 2.703E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0.0001146 | 0.0001146 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | -5.009E-05 | -5.009E-05 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | -4.669E-05 | -4.669E-05 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|-----------|---------------|---------------|------------|-----------|------------------|--------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985181 | B21121957-001 | ICPMS-6020-W- | PDS1 | | 1/19/2022 2:17:5 | 1.03 | 162497 | 12/27/2021 | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0425 | 0.043775 | | 0.0515 | 0.004864 | 0 | 0.0032934 | 0.0032934 | 1 | 76% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.04531 | 0.0466693 | | 0.0515 | 0 | 0 | 0.0010094 | 0.0022013 | 0.1 | 91% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.0452 | 0.046556 | | 0.0515 | 0 | 0 | 0.0002757 | 0.001 | 1 | 90% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.04702 | 0.0484306 | | 0.0515 | 0.002042 | 0 | 0.0002480 | 0.001 | 1 | 90% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.03565 | 0.0367195 | | 0.0515 | 0 | 0 | 0.0001610 | 0.01 | 1 | 71% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|---------------|------------|-----------|------------------|--------|-----------|------------|-----------|-----------|--------|--------|-----|------|------|---|
| 14985181 | B21121957-001 | ICPMS-6020-W- | PDS1 | | 1/19/2022 2:17:5 | 1.03 | 162497 | 12/27/2021 | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Boron | A | mg/L | 0.0923 | 0.095069 | | 0.0515 | 0.05816 | 0 | 0.0151101 | 0.0151101 | 1 | 72% | 75 | 125 | 0% | S |
| Cadmium | A | mg/L | 0.04306 | 0.0443518 | | 0.0515 | 0 | 0 | 4.704E-05 | 0.005 | 1 | 86% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 42.35 | 43.6205 | | 51.5 | 5.876 | 0 | 0.1136585 | 0.1136585 | 150 | 73% | 75 | 125 | 0% | S |
| Cerium | A | mg/L | 0.04659 | 0.0479877 | | 0.0515 | 0 | 0 | 0.0000515 | 0.001 | 0.1 | 93% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.04531 | 0.0466693 | | 0.0515 | 0.003264 | 0 | 0.0015862 | 0.0015862 | 1 | 84% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.04412 | 0.0454436 | | 0.0515 | 0 | 0 | 7.416E-05 | 0.001 | 1 | 88% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.04458 | 0.0459174 | | 0.0515 | 0 | 0 | 0.0020394 | 0.0035794 | 1 | 89% | 75 | 125 | 0% | |
| Iron | A | mg/L | 3.966 | 4.08498 | | 5.15 | 0.01726 | 0 | 0.0052839 | 0.0052839 | 5 | 79% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 4.298E-06 | 0 | | 0.0515 | 0 | 0 | 5.665E-05 | 0.001 | 0.1 | 0% | 75 | 125 | 0% | S |
| Lead | A | mg/L | 0.04649 | 0.0478847 | | 0.0515 | 8.207E-05 | 0 | 7.947E-05 | 0.001 | 1 | 93% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 50.66 | 52.1798 | | 51.5 | 7.536 | 0 | 0.0083967 | 0.0083967 | 50 | 87% | 75 | 125 | 0% | |
| Manganese | A | mg/L | 0.04429 | 0.0456187 | | 0.0515 | 0.0008687 | 0 | 0.0002203 | 0.001 | 1 | 87% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.05227 | 0.0538381 | | 0.0515 | 0.001054 | 0 | 0.0001816 | 0.001 | 0.1 | 102% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.044 | 0.04532 | | 0.0515 | 0 | 0 | 0.0024926 | 0.0024926 | 1 | 88% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 40.51 | 41.7253 | | 51.5 | 1.433 | 0 | 0.0269042 | 0.0269042 | 50 | 78% | 75 | 125 | 0% | |
| Selenium | A | mg/L | 0.0449 | 0.046247 | | 0.0515 | 0 | 0 | 0.0006030 | 0.001 | 1 | 90% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 20.21 | 20.8163 | | 0.206 | 21.75 | 0 | 0.0054808 | 0.0054808 | 0.4 | | 0 | 0 | 0% | A |
| Silver | A | mg/L | 0.02113 | 0.0217639 | | 0.0206 | 0 | 0 | 4.446E-05 | 0.001 | 0.04 | 106% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 73.88 | 76.0964 | | 51.5 | 34.52 | 0 | 0.7550177 | 0.7550177 | 50 | 81% | 75 | 125 | 0% | |
| Strontium | A | mg/L | 0.1119 | 0.115257 | | 0.0515 | 0.06671 | 0 | 0.0001302 | 0.001 | 1 | 94% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.04945 | 0.0509335 | | 0.0515 | 0 | 0 | 0.0001147 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.05078 | 0.0523034 | | 0.0515 | 0 | 0 | 0.0042745 | 0.0042745 | 1 | 102% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.04615 | 0.0475345 | | 0.0515 | 0 | 0 | 0.001151 | 0.001151 | 0.1 | 92% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.04482 | 0.0461646 | | 0.0515 | 0.001999 | 0 | 0.0001683 | 0.001 | 1 | 86% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.04647 | 0.0478641 | | 0.0515 | 0 | 0 | 8.702E-05 | 0.0003 | 1 | 93% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.06209 | 0.0639527 | | 0.0515 | 0.01937 | 0 | 0.0021717 | 0.0021717 | 1 | 87% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.0507 | 0.052221 | | 0.0515 | 0.01215 | 0 | 0.0067511 | 0.0067511 | 1 | 78% | 75 | 125 | 0% | |
| Silica | C | mg/L | 43.233232 | 44.530229 | | 0 | 0 | 0 | 0.0117246 | 0.0117246 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 43.233232 | 44.530229 | | 0.0515 | 0 | 0 | 0.0117246 | 0.0117246 | 5 | 86466% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|------------|--------|--------|--------|------|-----|------|------|---|
| 14985182 | B21121957-001 | ICPMS-6020-W- | MS4 | | 1/19/2022 2:23:3 | 1 | 162497 | 12/27/2021 | 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 | | | | | |
|-----------------|---------------|-------------------|------------|-----------|------------------|-------|-----------|------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14985182 | B21121957-001 | ICPMS-6020-W- MS4 | | | 1/19/2022 2:23:3 | 1 | 162497 | 12/27/2021 | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.4167 | 0.4167 | | 0.5 | 0.004864 | 0 | 0.0031975 | 0.0031975 | 1 | 82% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.1 | 0.1 | | 0.1 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 100% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.09195 | 0.09195 | | 0.1 | 0 | 0 | 0.0002677 | 0.001 | 1 | 92% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.09482 | 0.09482 | | 0.1 | 0.002042 | 0 | 0.0002408 | 0.001 | 1 | 93% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.04012 | 0.04012 | | 0.05 | 0 | 0 | 0.0001563 | 0.01 | 1 | 80% | 75 | 125 | 0% | |
| Boron | A | mg/L | 0.1441 | 0.1441 | | 0.1 | 0.05816 | 0 | 0.01467 | 0.01467 | 1 | 86% | 75 | 125 | 0% | |
| Cadmium | A | mg/L | 0.04715 | 0.04715 | | 0.05 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 94% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 10.82 | 10.82 | | 5 | 5.876 | 0 | 0.1103481 | 0.1103481 | 150 | 99% | 75 | 125 | 0% | |
| Cerium | A | mg/L | 0.09922 | 0.09922 | | 0.1 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 99% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.09271 | 0.09271 | | 0.1 | 0.003264 | 0 | 0.00154 | 0.00154 | 1 | 89% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.09743 | 0.09743 | | 0.1 | 0 | 0 | 0.000072 | 0.001 | 1 | 97% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.0967 | 0.0967 | | 0.1 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 97% | 75 | 125 | 0% | |
| Iron | A | mg/L | 0.4902 | 0.4902 | | 0.5 | 0.01726 | 0 | 0.00513 | 0.00513 | 5 | 95% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 0.0985 | 0.0985 | | 0.1 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 98% | 75 | 125 | 0% | |
| Lead | A | mg/L | 0.09951 | 0.09951 | | 0.1 | 8.207E-05 | 0 | 7.716E-05 | 0.001 | 1 | 99% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 12.06 | 12.06 | | 5 | 7.536 | 0 | 0.0081522 | 0.0081522 | 50 | 90% | 75 | 125 | 0% | |
| Manganese | A | mg/L | 0.4528 | 0.4528 | | 0.5 | 0.0008687 | 0 | 0.0002139 | 0.001 | 1 | 90% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.1064 | 0.1064 | | 0.1 | 0.001054 | 0 | 0.0001763 | 0.001 | 0.1 | 105% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.09457 | 0.09457 | | 0.1 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 95% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 5.385 | 5.385 | | 5 | 1.433 | 0 | 0.0261205 | 0.0261205 | 50 | 79% | 75 | 125 | 0% | |
| Selenium | A | mg/L | 0.1047 | 0.1047 | | 0.1 | 0 | 0 | 0.0005855 | 0.001 | 1 | 105% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 25.29 | 25.29 | | 1 | 21.75 | 0 | 0.0053212 | 0.0053212 | 0.4 | | 75 | 125 | 0% | A |
| Silver | A | mg/L | 0.01082 | 0.01082 | | 0.01 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 108% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 36.73 | 36.73 | | 5 | 34.52 | 0 | 0.7330269 | 0.7330269 | 50 | | 75 | 125 | 0% | A |
| Strontium | A | mg/L | 0.1711 | 0.1711 | | 0.1 | 0.06671 | 0 | 0.0001264 | 0.001 | 1 | 104% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.1033 | 0.1033 | | 0.1 | 0 | 0 | 0.0001114 | 0.001 | 1 | 103% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.1053 | 0.1053 | | 0.1 | 0 | 0 | 0.00415 | 0.00415 | 1 | 105% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.1023 | 0.1023 | | 0.1 | 0 | 0 | 0.0011175 | 0.0011175 | 0.1 | 102% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.0884 | 0.0884 | | 0.1 | 0.001999 | 0 | 0.0001634 | 0.001 | 1 | 86% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.09911 | 0.09911 | | 0.1 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 99% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.1085 | 0.1085 | | 0.1 | 0.01937 | 0 | 0.0021085 | 0.0021085 | 1 | 89% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.09638 | 0.09638 | | 0.1 | 0.01215 | 0 | 0.0065544 | 0.0065544 | 1 | 84% | 75 | 125 | 0% | |
| Silica | C | mg/L | 54.100368 | 54.100368 | | 0 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 54.100368 | 54.100368 | | 2.14 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 2528% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|-------------------|------------|----------|------------------|-------|-----------|------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14985183 | B21121957-001 | ICPMS-6020-W-MSD4 | | | 1/19/2022 2:29:0 | 1 | 162497 | 12/27/2021 | 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 | 0.3989 | 0.3989 | | 0.5 | 0.004864 | 0.4167 | 0.0031975 | 0.0031975 | 1 | 79% | 75 | 125 | 4% | |
| Antimony | A | mg/L | 0.09694 | 0.09694 | | 0.1 | 0 | 0.1 | 0.00098 | 0.0021372 | 0.1 | 97% | 75 | 125 | 3% | |
| Arsenic | A | mg/L | 0.0962 | 0.0962 | | 0.1 | 0 | 0.09195 | 0.0002677 | 0.001 | 1 | 96% | 75 | 125 | 5% | |
| Barium | A | mg/L | 0.09262 | 0.09262 | | 0.1 | 0.002042 | 0.09482 | 0.0002408 | 0.001 | 1 | 91% | 75 | 125 | 2% | |
| Beryllium | A | mg/L | 0.0384 | 0.0384 | | 0.05 | 0 | 0.04012 | 0.0001563 | 0.01 | 1 | 77% | 75 | 125 | 4% | |
| Boron | A | mg/L | 0.1395 | 0.1395 | | 0.1 | 0.05816 | 0.1441 | 0.01467 | 0.01467 | 1 | 81% | 75 | 125 | 3% | |
| Cadmium | A | mg/L | 0.04515 | 0.04515 | | 0.05 | 0 | 0.04715 | 4.567E-05 | 0.005 | 1 | 90% | 75 | 125 | 4% | |
| Calcium | A | mg/L | 10.43 | 10.43 | | 5 | 5.876 | 10.82 | 0.1103481 | 0.1103481 | 150 | 91% | 75 | 125 | 4% | |
| Cerium | A | mg/L | 0.1048 | 0.1048 | | 0.1 | 0 | 0.09922 | 0.00005 | 0.001 | 0.1 | 105% | 75 | 125 | 5% | |
| Chromium | A | mg/L | 0.09651 | 0.09651 | | 0.1 | 0.003264 | 0.09271 | 0.00154 | 0.00154 | 1 | 93% | 75 | 125 | 4% | |
| Cobalt | A | mg/L | 0.09568 | 0.09568 | | 0.1 | 0 | 0.09743 | 0.000072 | 0.001 | 1 | 96% | 75 | 125 | 2% | |
| Copper | A | mg/L | 0.09974 | 0.09974 | | 0.1 | 0 | 0.0967 | 0.00198 | 0.0034752 | 1 | 100% | 75 | 125 | 3% | |
| Iron | A | mg/L | 0.456 | 0.456 | | 0.5 | 0.01726 | 0.4902 | 0.00513 | 0.00513 | 5 | 88% | 75 | 125 | 7% | |
| Lanthanum | A | mg/L | 0.1029 | 0.1029 | | 0.1 | 0 | 0.0985 | 0.000055 | 0.001 | 0.1 | 103% | 75 | 125 | 4% | |
| Lead | A | mg/L | 0.09607 | 0.09607 | | 0.1 | 8.207E-05 | 0.09951 | 7.716E-05 | 0.001 | 1 | 96% | 88 | 115 | 4% | |
| Magnesium | A | mg/L | 12.14 | 12.14 | | 5 | 7.536 | 12.06 | 0.0081522 | 0.0081522 | 50 | 92% | 75 | 125 | 1% | |
| Manganese | A | mg/L | 0.4679 | 0.4679 | | 0.5 | 0.0008687 | 0.4528 | 0.0002139 | 0.001 | 1 | 93% | 75 | 125 | 3% | |
| Molybdenum | A | mg/L | 0.1084 | 0.1084 | | 0.1 | 0.001054 | 0.1064 | 0.0001763 | 0.001 | 0.1 | 107% | 75 | 125 | 2% | |
| Nickel | A | mg/L | 0.09719 | 0.09719 | | 0.1 | 0 | 0.09457 | 0.0024200 | 0.0024200 | 1 | 97% | 75 | 125 | 3% | |
| Potassium | A | mg/L | 5.413 | 5.413 | | 5 | 1.433 | 5.385 | 0.0261205 | 0.0261205 | 50 | 80% | 75 | 125 | 1% | |
| Selenium | A | mg/L | 0.09844 | 0.09844 | | 0.1 | 0 | 0.1047 | 0.0005855 | 0.001 | 1 | 98% | 75 | 125 | 6% | |
| Silicon | A | mg/L | 23.3 | 23.3 | | 1 | 21.75 | 25.29 | 0.0053212 | 0.0053212 | 0.4 | | 75 | 125 | 8% | A |
| Silver | A | mg/L | 0.01069 | 0.01069 | | 0.01 | 0 | 0.01082 | 4.316E-05 | 0.001 | 0.04 | 107% | 75 | 125 | 1% | |
| Sodium | A | mg/L | 37.4 | 37.4 | | 5 | 34.52 | 36.73 | 0.7330269 | 0.7330269 | 50 | | 75 | 125 | 2% | A |
| Strontium | A | mg/L | 0.1672 | 0.1672 | | 0.1 | 0.06671 | 0.1711 | 0.0001264 | 0.001 | 1 | 100% | 75 | 125 | 2% | |
| Thallium | A | mg/L | 0.1097 | 0.1097 | | 0.1 | 0 | 0.1033 | 0.0001114 | 0.001 | 1 | 110% | 75 | 125 | 6% | |
| Thorium | A | mg/L | 0.1095 | 0.1095 | | 0.1 | 0 | 0.1053 | 0.00415 | 0.00415 | 1 | 109% | 75 | 125 | 4% | |
| Tin | A | mg/L | 0.09897 | 0.09897 | | 0.1 | 0 | 0.1023 | 0.0011175 | 0.0011175 | 0.1 | 99% | 75 | 125 | 3% | |
| Titanium | A | mg/L | 0.08443 | 0.08443 | | 0.1 | 0.001999 | 0.0884 | 0.0001634 | 0.001 | 1 | 82% | 75 | 125 | 5% | |
| Uranium | A | mg/L | 0.09803 | 0.09803 | | 0.1 | 0 | 0.09911 | 8.449E-05 | 0.0003 | 1 | 98% | 75 | 125 | 1% | |
| Vanadium | A | mg/L | 0.1142 | 0.1142 | | 0.1 | 0.01937 | 0.1085 | 0.0021085 | 0.0021085 | 1 | 95% | 75 | 125 | 5% | |
| Zinc | A | mg/L | 0.1056 | 0.1056 | | 0.1 | 0.01215 | 0.09638 | 0.0065544 | 0.0065544 | 1 | 93% | 75 | 125 | 9% | |
| Silica | C | mg/L | 49.84336 | 49.84336 | | 0 | 0 | 54.100368 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 8% | |
| Silicon as SiO2 | C | mg/L | 49.84336 | 49.84336 | | 2.14 | 0 | 54.100368 | 0.0113831 | 0.0113831 | 5 | 2329% | 75 | 125 | 8% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985184 | Rinse | ICPMS-6020-W- | SAMP | | 1/19/2022 2:34:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00002161 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00001496 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.0000176 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00000658 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 1.051E-07 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -9.543E-06 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 4.616E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 1.832E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001295 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -1.008E-05 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.02315 | 0.02315 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | 4.778E-06 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 8.373E-06 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0005687 | 0.0005687 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Uranium | A | mg/L | 7.057E-06 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00007642 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00003928 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|----------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14985185 | B21121957-001I | ICPMS-6020-W- | SAMP | | 1/19/2022 2:40:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.00003965 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Antimony | B | mg/L | 0.00002724 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | B | mg/L | 0.0001134 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Barium | B | mg/L | 0.002125 | 0.002125 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00001269 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | B | mg/L | 2.552E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Copper | B | mg/L | 0.0005441 | 0.0005441 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | B | mg/L | 2.018E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | H |
| Molybdenum | B | mg/L | 0.0008784 | 0.0008784 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | B | mg/L | 0.0001524 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Silver | B | mg/L | -7.455E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | B | mg/L | 0.06214 | 0.06214 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.0002752 | 0 | | 0 | 0 | 0 | 0.0002991 | 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 | | | | | |
|----------|----------------|--------------------|------------|----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985185 | B21121957-001I | ICPMS-6020-W- SAMP | | | 1/19/2022 2:40:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Thorium | B | mg/L | 0.00001497 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | B | mg/L | 6.618E-06 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Zinc | B | mg/L | 0.008454 | 0.008454 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|----------------|------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985186 | B21121957-001I | ICPMS-6020-W- SD | | | 1/19/2022 2:46:0 | 5 | R373351 | | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001109 | 0.005545 | | 0 | 0 | 0.001899 | 0.0032741 | 0.0032741 | 1 | 0% | | | | N |
| Antimony | A | mg/L | 0.00001227 | 0 | | 0 | 0 | 0 | 0.0014934 | 0.0014934 | 0.1 | 0% | | | | |
| Arsenic | A | mg/L | 0.00001735 | 0 | | 0 | 0 | 0 | 0.0009071 | 0.001 | 1 | 0% | | | | |
| Barium | A | mg/L | 0.0004578 | 0.002289 | | 0 | 0 | 0.002125 | 0.0006604 | 0.001 | 1 | 0% | | | | N |
| Beryllium | A | mg/L | -1.587E-05 | 0 | | 0 | 0 | 0 | 0.0003733 | 0.001 | 1 | 0% | | | | |
| Boron | A | mg/L | 0.01156 | 0.0578 | | 0 | 0 | 0.06528 | 0.0150159 | 0.0150159 | 1 | 0% | | | | N |
| Cadmium | A | mg/L | 0.00000451 | 0 | | 0 | 0 | 0 | 0.000257 | 0.001 | 1 | 0% | | | | |
| Calcium | A | mg/L | 1.338 | 6.69 | | 0 | 0 | 7.188 | 0.3748981 | 0.3748981 | 50 | 0% | | | 7% | |
| Cerium | A | mg/L | 1.291E-06 | 0 | | 0 | 0 | 0 | 0.0000731 | 0.001 | 0.1 | 0% | | | | |
| Chromium | A | mg/L | 0.0006063 | 0.0030315 | | 0 | 0 | 0.002869 | 0.0027407 | 0.0027407 | 1 | 0% | | | | N |
| Cobalt | A | mg/L | 1.411E-06 | 0 | | 0 | 0 | 0 | 0.0002378 | 0.001 | 1 | 0% | | | | |
| Copper | A | mg/L | 0.000333 | 0 | | 0 | 0 | 0.0005441 | 0.001914 | 0.001914 | 1 | 0% | | | | |
| Iron | A | mg/L | 0.00215 | 0 | | 0 | 0 | 0.007755 | 0.0231453 | 0.0231453 | 5 | 0% | | | | |
| Lanthanum | A | mg/L | 1.789E-06 | 0 | | 0 | 0 | 0 | 8.415E-05 | 0.001 | 0.1 | 0% | | | | |
| Lead | A | mg/L | 0.0000181 | 0 | | 0 | 0 | 0 | 0.0003132 | 0.001 | 1 | 0% | | | | |
| Lithium | A | mg/L | 0.0003263 | 0 | | 0 | 0 | 0 | 0.0260526 | 0.0260526 | 2.5 | 0% | | | | |
| Magnesium | A | mg/L | 1.387 | 6.935 | | 0 | 0 | 7.629 | 0.0594967 | 0.0594967 | 50 | 0% | | | 10% | |
| Manganese | A | mg/L | 0.0001571 | 0.0007855 | | 0 | 0 | 0.0007952 | 0.0007221 | 0.001 | 1 | 0% | | | | N |
| Mercury | A | mg/L | 1.002E-06 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 0.02 | 0% | | | | |
| Molybdenum | A | mg/L | 0.0001991 | 0.0009955 | | 0 | 0 | 0.0008784 | 0.0004169 | 0.001 | 0.1 | 0% | | | | N |
| Nickel | A | mg/L | 0.00005759 | 0 | | 0 | 0 | 0 | 0.0012656 | 0.0012656 | 1 | 0% | | | | |
| Potassium | A | mg/L | 0.2704 | 1.352 | | 0 | 0 | 1.604 | 1.0369948 | 1.0369948 | 50 | 0% | | | | N |
| Selenium | A | mg/L | 0.00005051 | 0 | | 0 | 0 | 0.0001632 | 0.0007077 | 0.001 | 1 | 0% | | | | |
| Silicon | A | mg/L | 5.359 | 26.795 | | 0 | 0 | 22.47 | 0.0730871 | 0.1 | 0.4 | 0% | | | 18% | R |
| Silver | A | mg/L | -0.0000726 | 0 | | 0 | 0 | 0 | 5.615E-05 | 0.001 | 0.04 | 0% | | | | |
| Sodium | A | mg/L | 5.975 | 29.875 | | 0 | 0 | 32.82 | 0.4046363 | 0.4046363 | 50 | 0% | | | 9% | |
| Strontium | A | mg/L | 0.0121 | 0.0605 | | 0 | 0 | 0.06214 | 0.0009125 | 0.001 | 1 | 0% | | | 3% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|----------------|------------------|------------|----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985186 | B21121957-001I | ICPMS-6020-W- SD | | | 1/19/2022 2:46:0 | 5 | R373351 | | | 0 | 1E+07 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Thallium | A | mg/L | 0.0001228 | 0 | | 0 | 0 | 0 | 0.0014956 | 0.0014956 | 1 | 0% | | | | |
| Thorium | A | mg/L | 7.558E-06 | 0 | | 0 | 0 | 0 | 0.0052364 | 0.0052364 | 1 | 0% | | | | |
| Tin | A | mg/L | 0.005687 | 0.028435 | | 0 | 0 | 0.04075 | 0.011194 | 0.011194 | 0.1 | 0% | | | | N |
| Titanium | A | mg/L | 0.0003362 | 0.001681 | | 0 | 0 | 0.001768 | 0.0014871 | 0.0014871 | 1 | 0% | | | | N |
| Uranium | A | mg/L | 1.518E-06 | 0 | | 0 | 0 | 0 | 0.000157 | 0.0003 | 1 | 0% | | | | |
| Vanadium | A | mg/L | 0.003692 | 0 | | 0 | 0 | 0.01909 | 0.0217338 | 0.0217338 | 1 | 0% | | | | |
| Zinc | A | mg/L | 0.003064 | 0.01532 | | 0 | 0 | 0.008454 | 0.0057989 | 0.0057989 | 1 | 0% | | | | N |
| Iron, Ferrous | C | mg/L | 0.00215 | 0 | | 0 | 0 | 0 | 0.0231453 | 0.0231453 | 5 | 0% | | | | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|----------------|------------------|------------|------------|------------------|-------|-----------|-----------|-----------|-----------|--------|-------|-----|------|------|---|
| 14985187 | B21121957-001I | ICPMS-6020-W- MS | | | 1/19/2022 2:51:5 | 1.03 | R373351 | | | 1E+07 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04124 | 0.0424772 | | 0.05 | 0.001899 | 0 | 0.0006745 | 0.001 | 1 | 81% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.04957 | 0.0510571 | | 0.05 | 0 | 0 | 0.0003076 | 0.001 | 0.1 | 102% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.04924 | 0.0507172 | | 0.05 | 0 | 0 | 0.0001869 | 0.001 | 1 | 101% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.04895 | 0.0504185 | | 0.05 | 0.002125 | 0 | 0.0001360 | 0.001 | 1 | 97% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.03868 | 0.0398404 | | 0.05 | 0 | 0 | 7.689E-05 | 0.001 | 1 | 80% | 75 | 125 | 0% | |
| Boron | A | mg/L | 0.08987 | 0.0925661 | | 0.05 | 0.06528 | 0 | 0.0030933 | 0.0030933 | 1 | 55% | 75 | 125 | 0% | S |
| Cadmium | A | mg/L | 0.04498 | 0.0463294 | | 0.05 | 0 | 0 | 5.293E-05 | 0.001 | 1 | 93% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 47.18 | 48.5954 | | 50 | 7.188 | 0 | 0.0772290 | 0.0772290 | 50 | 83% | 75 | 125 | 0% | |
| Cerium | A | mg/L | 0.04742 | 0.0488426 | | 0.05 | 0 | 0 | 1.506E-05 | 0.001 | 0.1 | 98% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.04512 | 0.0464736 | | 0.05 | 0.002869 | 0 | 0.0005646 | 0.001 | 1 | 87% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.04498 | 0.0463294 | | 0.05 | 0 | 0 | 4.899E-05 | 0.001 | 1 | 93% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.04396 | 0.0452788 | | 0.05 | 0.0005441 | 0 | 0.0003943 | 0.001 | 1 | 89% | 75 | 125 | 0% | |
| Iron | A | mg/L | 4.286 | 4.41458 | | 5.05 | 0.007755 | 0 | 0.0047679 | 0.0047679 | 5 | 87% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 5.222E-06 | 0 | | 0.05 | 0 | 0 | 1.733E-05 | 0.001 | 0.1 | 0% | 75 | 125 | 0% | S |
| Lead | A | mg/L | 0.0457 | 0.047071 | | 0.05 | 0 | 0 | 6.452E-05 | 0.001 | 1 | 94% | 88 | 115 | 0% | |
| Lithium | A | mg/L | 1.285 | 1.32355 | | 0.05 | 0 | 0 | 0.0053668 | 0.0053668 | 2.5 | 2647% | 75 | 125 | 0% | S |
| Magnesium | A | mg/L | 49.42 | 50.9026 | | 50 | 7.629 | 0 | 0.0122563 | 0.0122563 | 50 | 87% | 75 | 125 | 0% | |
| Manganese | A | mg/L | 0.04556 | 0.0469268 | | 0.05 | 0.0007952 | 0 | 0.0001487 | 0.001 | 1 | 92% | 75 | 125 | 0% | |
| Mercury | A | mg/L | 0.0009503 | 0.00097881 | | 0.001 | 0 | 0 | 6.798E-05 | 0.001 | 0.02 | 98% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.05042 | 0.0519326 | | 0.05 | 0.0008784 | 0 | 8.588E-05 | 0.001 | 0.1 | 102% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.04489 | 0.0462367 | | 0.05 | 0 | 0 | 0.0002607 | 0.001 | 1 | 92% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 41.91 | 43.1673 | | 50 | 1.604 | 0 | 0.2136209 | 0.2136209 | 50 | 83% | 75 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|----------------|------------------|------------|-----------|------------------|-------|-----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14985187 | B21121957-001I | ICPMS-6020-W- MS | | | 1/19/2022 2:51:5 | 1.03 | R373351 | | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Selenium | A | mg/L | 0.05083 | 0.0523549 | | 0.05 | 0.0001632 | 0 | 0.0001458 | 0.001 | 1 | 104% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 21.48 | 22.1244 | | 0.2 | 22.47 | 0 | 0.0150559 | 0.1 | 0.4 | | 75 | 125 | 0% | AE |
| Silver | A | mg/L | 0.02093 | 0.0215579 | | 0.02 | 0 | 0 | 1.157E-05 | 0.001 | 0.04 | 108% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 70.94 | 73.0682 | | 50 | 32.82 | 0 | 0.0833551 | 0.0833551 | 50 | 80% | 75 | 125 | 0% | E |
| Strontium | A | mg/L | 0.1102 | 0.113506 | | 0.05 | 0.06214 | 0 | 0.000188 | 0.001 | 1 | 103% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.04601 | 0.0473903 | | 0.05 | 0 | 0 | 0.0003081 | 0.001 | 1 | 95% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.04928 | 0.0507584 | | 0.05 | 0 | 0 | 0.0010787 | 0.0010787 | 1 | 102% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.08382 | 0.0863346 | | 0.05 | 0.04075 | 0 | 0.002306 | 0.002306 | 0.1 | 91% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.0465 | 0.047895 | | 0.05 | 0.001768 | 0 | 0.0003063 | 0.001 | 1 | 92% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.04542 | 0.0467826 | | 0.05 | 0 | 0 | 3.233E-05 | 0.0003 | 1 | 94% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.06255 | 0.0644265 | | 0.05 | 0.01909 | 0 | 0.0044772 | 0.0044772 | 1 | 91% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.05356 | 0.0551668 | | 0.05 | 0.008454 | 0 | 0.0011946 | 0.0011946 | 1 | 93% | 75 | 125 | 0% | |
| Iron, Ferrous | C | mg/L | 4.286 | 4.41458 | | 0 | 0 | 0 | 0.0047679 | 0.0047679 | 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 | | | | | |
|-----------|----------------|-------------------|------------|-----------|------------------|-------|-----------|-----------|-----------|-----------|--------|-------|-----|------|------|----|
| 14985188 | B21121957-001I | ICPMS-6020-W- MSD | | | 1/19/2022 2:57:3 | 1.03 | R373351 | | 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 | 0.04195 | 0.0432085 | | 0.05 | 0.001899 | 0.0424772 | 0.0006745 | 0.001 | 1 | 83% | 75 | 125 | 2% | |
| Antimony | A | mg/L | 0.05084 | 0.0523652 | | 0.05 | 0 | 0.0510571 | 0.0003076 | 0.001 | 0.1 | 105% | 75 | 125 | 3% | |
| Arsenic | A | mg/L | 0.04862 | 0.0500786 | | 0.05 | 0 | 0.0507172 | 0.0001869 | 0.001 | 1 | 100% | 75 | 125 | 1% | |
| Barium | A | mg/L | 0.04894 | 0.0504082 | | 0.05 | 0.002125 | 0.0504185 | 0.0001360 | 0.001 | 1 | 97% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.03939 | 0.0405717 | | 0.05 | 0 | 0.0398404 | 7.689E-05 | 0.001 | 1 | 81% | 75 | 125 | 2% | |
| Boron | A | mg/L | 0.09295 | 0.0957385 | | 0.05 | 0.06528 | 0.0925661 | 0.0030933 | 0.0030933 | 1 | 61% | 75 | 125 | 3% | S |
| Cadmium | A | mg/L | 0.04655 | 0.0479465 | | 0.05 | 0 | 0.0463294 | 5.293E-05 | 0.001 | 1 | 96% | 75 | 125 | 3% | |
| Calcium | A | mg/L | 46.8 | 48.204 | | 50 | 7.188 | 48.5954 | 0.0772290 | 0.0772290 | 50 | 82% | 75 | 125 | 1% | |
| Cerium | A | mg/L | 0.04855 | 0.0500065 | | 0.05 | 0 | 0.0488426 | 1.506E-05 | 0.001 | 0.1 | 100% | 75 | 125 | 2% | |
| Chromium | A | mg/L | 0.04635 | 0.0477405 | | 0.05 | 0.002869 | 0.0464736 | 0.0005646 | 0.001 | 1 | 90% | 75 | 125 | 3% | |
| Cobalt | A | mg/L | 0.04462 | 0.0459586 | | 0.05 | 0 | 0.0463294 | 4.899E-05 | 0.001 | 1 | 92% | 75 | 125 | 1% | |
| Copper | A | mg/L | 0.04496 | 0.0463088 | | 0.05 | 0.0005441 | 0.0452788 | 0.0003943 | 0.001 | 1 | 92% | 75 | 125 | 2% | |
| Iron | A | mg/L | 4.13 | 4.2539 | | 5.05 | 0.007755 | 4.41458 | 0.0047679 | 0.0047679 | 5 | 84% | 75 | 125 | 4% | |
| Lanthanum | A | mg/L | 5.033E-06 | 0 | | 0.05 | 0 | 0 | 1.733E-05 | 0.001 | 0.1 | 0% | 75 | 125 | | S |
| Lead | A | mg/L | 0.04551 | 0.0468753 | | 0.05 | 0 | 0.047071 | 6.452E-05 | 0.001 | 1 | 94% | 88 | 115 | 0% | |
| Lithium | A | mg/L | 1.622 | 1.67066 | | 0.05 | 0 | 1.32355 | 0.0053668 | 0.0053668 | 2.5 | 3341% | 75 | 125 | 23% | SR |
| Magnesium | A | mg/L | 50.67 | 52.1901 | | 50 | 7.629 | 50.9026 | 0.0122563 | 0.0122563 | 50 | 89% | 75 | 125 | 2% | E |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|----------------|-------------------|------------|------------|------------------|-------|-----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14985188 | B21121957-001I | ICPMS-6020-W- MSD | | | 1/19/2022 2:57:3 | 1.03 | R373351 | | 1E+07 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Manganese | A | mg/L | 0.04623 | 0.0476169 | | 0.05 | 0.0007952 | 0.0469268 | 0.0001487 | 0.001 | 1 | 94% | 75 | 125 | 1% | |
| Mercury | A | mg/L | 0.0009139 | 0.00094132 | | 0.001 | 0 | 0.0009788 | 6.798E-05 | 0.001 | 0.02 | 94% | 75 | 125 | | |
| Molybdenum | A | mg/L | 0.04895 | 0.0504185 | | 0.05 | 0.0008784 | 0.0519326 | 8.588E-05 | 0.001 | 0.1 | 99% | 75 | 125 | 3% | |
| Nickel | A | mg/L | 0.04498 | 0.0463294 | | 0.05 | 0 | 0.0462367 | 0.0002607 | 0.001 | 1 | 93% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 43.08 | 44.3724 | | 50 | 1.604 | 43.1673 | 0.2136209 | 0.2136209 | 50 | 86% | 75 | 125 | 3% | |
| Selenium | A | mg/L | 0.04988 | 0.0513764 | | 0.05 | 0.0001632 | 0.0523549 | 0.0001458 | 0.001 | 1 | 102% | 75 | 125 | 2% | |
| Silicon | A | mg/L | 21.07 | 21.7021 | | 0.2 | 22.47 | 22.1244 | 0.0150559 | 0.1 | 0.4 | | 75 | 125 | 2% | AE |
| Silver | A | mg/L | 0.01986 | 0.0204558 | | 0.02 | 0 | 0.0215579 | 1.157E-05 | 0.001 | 0.04 | 102% | 75 | 125 | 5% | |
| Sodium | A | mg/L | 72.73 | 74.9119 | | 50 | 32.82 | 73.0682 | 0.0833551 | 0.0833551 | 50 | 84% | 75 | 125 | 2% | E |
| Strontium | A | mg/L | 0.1063 | 0.109489 | | 0.05 | 0.06214 | 0.113506 | 0.000188 | 0.001 | 1 | 95% | 75 | 125 | 4% | |
| Thallium | A | mg/L | 0.04665 | 0.0480495 | | 0.05 | 0 | 0.0473903 | 0.0003081 | 0.001 | 1 | 96% | 75 | 125 | 1% | |
| Thorium | A | mg/L | 0.04924 | 0.0507172 | | 0.05 | 0 | 0.0507584 | 0.0010787 | 0.0010787 | 1 | 101% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.08824 | 0.0908872 | | 0.05 | 0.04075 | 0.0863346 | 0.002306 | 0.002306 | 0.1 | 100% | 75 | 125 | 5% | |
| Titanium | A | mg/L | 0.04909 | 0.0505627 | | 0.05 | 0.001768 | 0.047895 | 0.0003063 | 0.001 | 1 | 98% | 75 | 125 | 5% | |
| Uranium | A | mg/L | 0.04537 | 0.0467311 | | 0.05 | 0 | 0.0467826 | 3.233E-05 | 0.0003 | 1 | 93% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.06374 | 0.0656522 | | 0.05 | 0.01909 | 0.0644265 | 0.0044772 | 0.0044772 | 1 | 93% | 75 | 125 | 2% | |
| Zinc | A | mg/L | 0.05284 | 0.0544252 | | 0.05 | 0.008454 | 0.0551668 | 0.0011946 | 0.0011946 | 1 | 92% | 75 | 125 | 1% | |
| Iron, Ferrous | C | mg/L | 4.13 | 4.2539 | | 0 | 0 | 4.41458 | 0.0047679 | 0.0047679 | 5 | 0% | 0 | 0 | 4% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------|--------------------|------------|---------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14985189 | Rinse | ICPMS-6020-W- SAMP | | | 1/19/2022 3:03:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00001673 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 6.135E-06 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00001748 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 4.918E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 2.522E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -9.06E-06 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 6.415E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 5.025E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00003033 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -6.69E-06 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.008082 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 7.039E-06 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985189 | Rinse | ICPMS-6020-W- | SAMP | | 1/19/2022 3:03:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Strontium | A | mg/L | 8.502E-06 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0002418 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00000516 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00006198 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | -5.184E-05 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985190 | B21121959-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 3:08:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.00003395 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Antimony | B | mg/L | 0.000339 | 0.000339 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Arsenic | B | mg/L | 0.000356 | 0.000356 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | B | mg/L | 0.01718 | 0.01718 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 4.575E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | B | mg/L | 0.00006938 | 0.00006938 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Copper | B | mg/L | 0.0004991 | 0.0004991 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | B | mg/L | 5.463E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | H |
| Molybdenum | B | mg/L | 0.0002202 | 0.0002202 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | B | mg/L | 0.002106 | 0.002106 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -7.359E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | B | mg/L | 0.09094 | 0.09094 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.0001669 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Thorium | B | mg/L | 0.00006185 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | B | mg/L | 4.861E-06 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Zinc | B | mg/L | 0.004768 | 0.004768 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|----------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985191 | B21121959-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 3:14:4 | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.0005666 | 0.0005666 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Antimony | B | mg/L | 0.0005342 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.0005552 | 0.0005552 | | 0 | 0 | 0 | 0.0002677 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985191 | B21121959-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 3:14:4 | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Barium | B | mg/L | 0.01884 | 0.01884 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.0000262 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 0.0005996 | 0.0005996 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Copper | B | mg/L | 0.00538 | 0.00538 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | D |
| Lanthanum | B | mg/L | 0.0001739 | 0.0001739 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Molybdenum | B | mg/L | 0.0004003 | 0.0004003 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | B | mg/L | 0.004049 | 0.004049 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | D |
| Selenium | B | mg/L | 0.00007171 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | 0.00002615 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.1061 | 0.1061 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.0000855 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.000127 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 0.00001859 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.007762 | 0.007762 | | 0 | 0 | 0 | 0.0065544 | 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 | | | | | |
|------------|---------------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985192 | B21121961-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 3:20:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 6.927E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Antimony | B | mg/L | 0.0001421 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | B | mg/L | 0.00106 | 0.00106 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | B | mg/L | 0.003179 | 0.003179 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 1.814E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | B | mg/L | 0.00001639 | 0.00001639 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Copper | B | mg/L | 0.00008461 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Mercury | B | mg/L | 0.000035 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | H |
| Molybdenum | B | mg/L | 0.0006096 | 0.0006096 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | B | mg/L | 0.0009743 | 0.0009743 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | B | mg/L | -7.357E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | B | mg/L | 0.07238 | 0.07238 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.0001094 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Thorium | B | mg/L | 8.174E-06 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | B | mg/L | 0.00001663 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Zinc | B | mg/L | 0.002469 | 0.002469 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|--------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985192 | B21121961-001 | ICPMS-6020-W- SAMP | | | 1/19/2022 3:20:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| 14985193 | CCV | ICPMS-6020-W- CCV | | | 1/19/2022 3:26:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04274 | 0.04274 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 85% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.05002 | 0.05002 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 100% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.04861 | 0.04861 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04987 | 0.04987 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.0412 | 0.0412 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 82% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.04035 | 0.04035 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 81% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.04664 | 0.04664 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 93% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 11 | 11 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 88% | 90 | 110 | 0% | S |
| Cerium | A | mg/L | 0.04934 | 0.04934 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 99% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04526 | 0.04526 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 91% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04786 | 0.04786 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.04753 | 0.04753 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.118 | 1.118 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 86% | 90 | 110 | 0% | S |
| Lanthanum | A | mg/L | 0.04947 | 0.04947 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 99% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04865 | 0.04865 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.3635 | 0.3635 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 58% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 10.4 | 10.4 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 83% | 90 | 110 | 0% | S |
| Manganese | A | mg/L | 0.04701 | 0.04701 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009494 | 0.0009494 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 95% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05093 | 0.05093 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.0468 | 0.0468 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 10.16 | 10.16 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 81% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.05217 | 0.05217 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2036 | 0.2036 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 102% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02104 | 0.02104 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 105% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 10.6 | 10.6 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 85% | 90 | 110 | 0% | S |
| Strontium | A | mg/L | 0.05264 | 0.05264 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05038 | 0.05038 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05042 | 0.05042 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 101% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04847 | 0.04847 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 97% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985193 | CCV | ICPMS-6020-W- CCV | | | 1/19/2022 3:26:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Titanium | A | mg/L | 0.04337 | 0.04337 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 87% | 90 | 110 | 0% | S |
| Uranium | A | mg/L | 0.04752 | 0.04752 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 95% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04633 | 0.04633 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 93% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.04726 | 0.04726 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 95% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.118 | 1.118 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|------------|--------|-------------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985194 | CCB | ICPMS-6020-W- CCB | | | 1/19/2022 3:31:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -6.036E-05 | -6.036E-05 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00005372 | 0.00005372 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | 5.451E-06 | 5.451E-06 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | -1.627E-06 | -1.627E-06 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | -9.666E-06 | -9.666E-06 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.000407 | 0.000407 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 4.283E-07 | 4.283E-07 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | -0.0006494 | -0.0006494 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | | | 0% | |
| Cerium | A | mg/L | -1.371E-07 | -1.371E-07 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -2.435E-06 | -2.435E-06 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | -1.201E-06 | -1.201E-06 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | -8.531E-06 | -8.531E-06 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | -6.424E-05 | -6.424E-05 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | 0% | |
| Lanthanum | A | mg/L | 9.524E-07 | 9.524E-07 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 7.104E-07 | 7.104E-07 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | 0% | |
| Lithium | A | mg/L | 0.002188 | 0.002188 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | 0% | |
| Magnesium | A | mg/L | 0.001076 | 0.001076 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | | | 0% | |
| Manganese | A | mg/L | 4.415E-06 | 4.415E-06 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | 0% | |
| Mercury | A | mg/L | 3.797E-06 | 3.797E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.0000988 | 0.0000988 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Nickel | A | mg/L | -2.248E-06 | -2.248E-06 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | -0.009519 | -0.009519 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | | | 0% | |
| Selenium | A | mg/L | 0.00004496 | 0.00004496 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | 0.02851 | 0.02851 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.00000654 | 0.00000654 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985194 | CCB | ICPMS-6020-W- | CCB | | 1/19/2022 3:31:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Sodium | A | mg/L | 0.03202 | 0.03202 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | | | 0% | |
| Strontium | A | mg/L | 1.636E-06 | 1.636E-06 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00005303 | 0.00005303 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00003702 | 0.00003702 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0.0000121 | 0.0000121 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00002495 | 0.00002495 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 1.852E-06 | 1.852E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0.0001102 | 0.0001102 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | -0.000023 | -0.000023 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | -6.424E-05 | -6.424E-05 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985195 | B21121961-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 3:37:3 | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0009578 | 0.0009578 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.00006244 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Antimony | B | mg/L | 0.000176 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Barium | B | mg/L | 0.003599 | 0.003599 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00002125 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 0.0001111 | 0.0001111 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | B | mg/L | 0.00046 | 0 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | L |
| Cobalt | B | mg/L | 0.000543 | 0.000543 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | B | mg/L | 0.0008815 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Lanthanum | B | mg/L | 0.0000293 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Manganese | B | mg/L | 0.4757 | 0.4757 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | B | mg/L | 0.000735 | 0.000735 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | B | mg/L | 0.001159 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Selenium | B | mg/L | 0.00005671 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -1.329E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.07957 | 0.07957 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.0000424 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.0001089 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 0.0000197 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.0009671 | 0 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 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 | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985195 | B21121961-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 3:37:3 | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Zinc | B | mg/L | 0.002521 | 0 | | 0 | 0 | 0 | 0.0065544 | 0.0065544 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985196 | B21121965-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 3:43:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.00004699 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Antimony | B | mg/L | 0.0004111 | 0.0004111 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Barium | B | mg/L | 0.01538 | 0.01538 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | B | mg/L | 0.001491 | 0.001491 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | B | mg/L | 0.2022 | 0.2022 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | B | mg/L | 0.00004793 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | H |
| Molybdenum | B | mg/L | 0.002919 | 0.002919 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -7.403E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | B | mg/L | 0.1566 | 0.1566 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.00006599 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Thorium | B | mg/L | 0.00001179 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | B | mg/L | 0.0001359 | 0.0001359 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 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 | | | | | |
|-----------|---------------|---------------|------------|------------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985197 | B21121965-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 3:49:0 | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.0001378 | 0.0001378 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Antimony | B | mg/L | 0.0002411 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.0007481 | 0.0007481 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | B | mg/L | 0.01455 | 0.01455 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00002051 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 0.00008193 | 0.00008193 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | B | mg/L | 0.001329 | 0 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | L |
| Cobalt | B | mg/L | 0.001528 | 0.001528 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | B | mg/L | 0.00137 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Lanthanum | B | mg/L | 0.00003313 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Manganese | B | mg/L | 0.1322 | 0.1322 | | 0 | 0 | 0 | 0.0002139 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985197 | B21121965-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 3:49:0 | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Molybdenum | B | mg/L | 0.003117 | 0.003117 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | B | mg/L | 0.005108 | 0.005108 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | D |
| Selenium | B | mg/L | 0.0001912 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -0.0000571 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.1651 | 0.1651 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.00002646 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00004851 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 0.0001453 | 0.0001453 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Vanadium | B | mg/L | 0.01919 | 0.01919 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.002828 | 0 | | 0 | 0 | 0 | 0.0065544 | 0.0065544 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985198 | B21121967-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 3:54:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.0001154 | 0.0001154 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Antimony | B | mg/L | 0.0002757 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | B | mg/L | 0.0004376 | 0.0004376 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | B | mg/L | 0.0539 | 0.0539 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 9.369E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Cobalt | B | mg/L | 0.002019 | 0.002019 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | B | mg/L | 0.3441 | 0.3441 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | B | mg/L | 5.192E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | H |
| Molybdenum | B | mg/L | 0.0004638 | 0.0004638 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Silver | B | mg/L | -7.513E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | B | mg/L | 0.2792 | 0.2792 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.00003833 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Thorium | B | mg/L | 0.00009567 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | B | mg/L | 0.0000544 | 0.0000544 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Zinc | B | mg/L | 0.01745 | 0.01745 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|------------|-----------|-----------|--------|------|-----|------|------|---|
| 14985199 | B21121967-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 4:00:3 | 1 | 162497 | 12/27/2021 | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0007202 | 0.0007202 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.006248 | 0.006248 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | B | mg/L | 0.0004776 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Barium | B | mg/L | 0.05518 | 0.05518 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.0002641 | 0.0002641 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | B | mg/L | 0.0003277 | 0.0003277 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | B | mg/L | 0.002324 | 0.002324 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | D |
| Cobalt | B | mg/L | 0.002398 | 0.002398 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | B | mg/L | 0.007111 | 0.007111 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | D |
| Lanthanum | B | mg/L | 0.0001533 | 0.0001533 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Manganese | B | mg/L | 0.3455 | 0.3455 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | B | mg/L | 0.0005134 | 0.0005134 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | B | mg/L | 0.0123 | 0.0123 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | D |
| Selenium | B | mg/L | 0.00224 | 0.00224 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -5.674E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.291 | 0.291 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.00002111 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00004758 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 0.00006401 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.009736 | 0.009736 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.03718 | 0.03718 | | 0 | 0 | 0 | 0.0065544 | 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 | | | | | |
|----------|---------------|---------------|------------|----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985200 | B21121968-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 4:06:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 5.803E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Antimony | B | mg/L | 6.264E-06 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Barium | B | mg/L | 0.003086 | 0.003086 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 3.334E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | B | mg/L | 5.968E-07 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Mercury | B | mg/L | 0.00000233 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | H |
| Thallium | B | mg/L | 0.00003344 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Thorium | B | mg/L | -1.012E-05 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | B | mg/L | 7.828E-06 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 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 | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985200 | B21121968-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 4:06:1 | 1 | R373351 | | | 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 | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|------------|--------|--------|--------|------|-----|------|------|---|
| 14985201 | B21121968-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 4:12:0 | 1 | 162497 | 12/27/2021 | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| | | | | | | | | | | | | | | | | |
|------------|---|------|------------|-----------|--|---|---|---|-----------|-----------|------|----|---|---|----|---|
| Lead | A | mg/L | 0.00001009 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Antimony | B | mg/L | 0.00002372 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Arsenic | B | mg/L | 0.00008562 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | B | mg/L | 0.003137 | 0.003137 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.00002472 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | B | mg/L | 1.199E-06 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | B | mg/L | 0.003014 | 0.003014 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | D |
| Cobalt | B | mg/L | 0.00005439 | 0 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | B | mg/L | 0.0001733 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Lanthanum | B | mg/L | 2.484E-06 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Manganese | B | mg/L | 0.0005496 | 0.0005496 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Molybdenum | B | mg/L | 0.0004337 | 0.0004337 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | B | mg/L | 0.003308 | 0.003308 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | D |
| Selenium | B | mg/L | 0.0001442 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -6.892E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | B | mg/L | 0.07273 | 0.07273 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.00001427 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00001736 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Uranium | B | mg/L | 7.722E-06 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.02079 | 0.02079 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.008699 | 0.008699 | | 0 | 0 | 0 | 0.0065544 | 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 | | | | | |
|----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985202 | CCV | ICPMS-6020-W- | CCV | | 1/19/2022 4:17:4 | 1 | R373351 | | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| | | | | | | | | | | | | | | | | |
|----------|---|------|---------|---------|--|------|---|---|-----------|-------|-----|-----|----|-----|----|--|
| Aluminum | A | mg/L | 0.046 | 0.046 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 92% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.04902 | 0.04902 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.04779 | 0.04779 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 96% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|-------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985202 | CCV | ICPMS-6020-W- CCV | | | 1/19/2022 4:17:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Barium | A | mg/L | 0.04784 | 0.04784 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04571 | 0.04571 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 91% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.04567 | 0.04567 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 91% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.04785 | 0.04785 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.16 | 12.16 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 97% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.04863 | 0.04863 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 97% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04615 | 0.04615 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 92% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04915 | 0.04915 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.04597 | 0.04597 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 92% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.201 | 1.201 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 92% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.04893 | 0.04893 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04753 | 0.04753 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.4781 | 0.4781 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 76% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 11.12 | 11.12 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 89% | 90 | 110 | 0% | S |
| Manganese | A | mg/L | 0.04899 | 0.04899 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009248 | 0.0009248 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 92% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.04879 | 0.04879 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.04684 | 0.04684 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 10.96 | 10.96 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 88% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.05064 | 0.05064 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2559 | 0.2559 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 128% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.01972 | 0.01972 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 99% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 11.26 | 11.26 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 90% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05117 | 0.05117 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.0481 | 0.0481 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.04853 | 0.04853 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 97% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04899 | 0.04899 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 98% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04693 | 0.04693 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04538 | 0.04538 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 91% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.0478 | 0.0478 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 96% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.04722 | 0.04722 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 94% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.201 | 1.201 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14985203 | CCB | ICPMS-6020-W- | CCB | | 1/19/2022 4:23:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -3.132E-05 | -3.132E-05 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.00005319 | 0.00005319 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | -5.29E-06 | -5.29E-06 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | -4.432E-07 | -4.432E-07 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | -1.312E-05 | -1.312E-05 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | 0.0007944 | 0.0007944 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | 1.282E-06 | 1.282E-06 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | 0.0001727 | 0.0001727 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | 1.391E-06 | 1.391E-06 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | -2.437E-05 | -2.437E-05 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | -1.322E-07 | -1.322E-07 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | -1.299E-05 | -1.299E-05 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | -5.788E-05 | -5.788E-05 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | 5.346E-07 | 5.346E-07 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 8.738E-07 | 8.738E-07 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | | 0% |
| Lithium | A | mg/L | 0.0009 | 0.0009 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | | 0% |
| Magnesium | A | mg/L | 0.0008226 | 0.0008226 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | 0.00001855 | 0.00001855 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 6.469E-06 | 6.469E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | | 0% |
| Molybdenum | A | mg/L | 6.015E-06 | 6.015E-06 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | -1.605E-05 | -1.605E-05 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | -0.006594 | -0.006594 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.00002005 | 0.00002005 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | 0.06429 | 0.06429 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | -6.451E-07 | -6.451E-07 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | 0.02797 | 0.02797 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | 2.017E-06 | 2.017E-06 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.00002786 | 0.00002786 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.00003466 | 0.00003466 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | 0.00007451 | 0.00007451 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.00003498 | 0.00003498 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 3.173E-06 | 3.173E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | 0.0001396 | 0.0001396 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | -0.0001025 | -0.0001025 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | -5.788E-05 | -5.788E-05 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|--------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985204 | BLANK | ICPMS-6020-W- | SAMP | | 1/19/2022 4:29:1 | 1 | R373351 | | 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 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | L |
| Cadmium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | 0 | 0 | 0% | L |
| Cerium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Lanthanum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lithium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | 0 | 0 | 0% | L |
| Magnesium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | 0 | 0 | 0% | L |
| Manganese | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | 0 | 0 | 0% | L |
| Selenium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | L |
| Strontium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | L |
| Titanium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|-----------------|---------------|---------------|------------|------------|------------------|-----------|----------|-----------|--------|--------|--------|---------|-----|------|------|---|
| 14985205 | 0.025 PPB STD | ICPMS-6020B-C | Ca11 | | 1/19/2022 4:35:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.00007578 | 0.00007578 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00001622 | 0.00001622 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.0000192 | 0.0000192 | | 0.000025 | 0 | 0 | | 0.001 | | 77% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.00002175 | 0.00002175 | | 0.000025 | 0 | 0 | | 0.0003 | | 87% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.00003446 | 0.00003446 | | 0.000025 | 0 | 0 | | 0.001 | | 138% | 80 | 120 | 0% | S |
| Boron | A | mg/L | -0.0002005 | -0.0002005 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00002788 | 0.00002788 | | 0.000025 | 0 | 0 | | 0.001 | | 112% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.00685 | 0.00685 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Chromium | A | mg/L | 8.259E-08 | 8.259E-08 | | 0.000025 | 0 | 0 | | 0.001 | | 0% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.00002387 | 0.00002387 | | 0.000025 | 0 | 0 | | 0.001 | | 95% | 80 | 120 | 0% | |
| Copper | A | mg/L | 2.22E-08 | 2.22E-08 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Iron | A | mg/L | 0.0005772 | 0.0005772 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Lanthanum | A | mg/L | 0.00002455 | 0.00002455 | | 0.000025 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.00002401 | 0.00002401 | | 0.000025 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.004452 | 0.004452 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Manganese | A | mg/L | 0.00002133 | 0.00002133 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Mercury | A | mg/L | -5.818E-07 | -5.818E-07 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00003663 | 0.00003663 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Nickel | A | mg/L | 8.179E-06 | 8.179E-06 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.004117 | 0.004117 | | 0.00625 | 0 | 0 | | 1 | | 66% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.00002815 | 0.00002815 | | 0.000025 | 0 | 0 | | 0.005 | | 113% | 80 | 120 | 0% | |
| Silicon | A | mg/L | -0.01609 | -0.01609 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.0000109 | 0.0000109 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Sodium | A | mg/L | -0.001795 | -0.001795 | | 0.00625 | 0 | 0 | | 1 | | -29% | 80 | 120 | 0% | S |
| Strontium | A | mg/L | 0.00002657 | 0.00002657 | | 0 | 0 | 0 | | 0.001 | | 0% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.0000191 | 0.0000191 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00001114 | 0.00001114 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |
| Tin | A | mg/L | -0.002413 | -0.002413 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00002252 | 0.00002252 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.00002298 | 0.00002298 | | 0.000025 | 0 | 0 | | 0.001 | | 92% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.00004879 | 0.00004879 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | 0.00002792 | 0.00002792 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.0005772 | 0.0005772 | | 0.000025 | 0 | 0 | | 0.01 | 5 | 2309% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.0344326 | -0.0344326 | | 0.0000535 | 0 | 0 | | 0.214 | 0.9 | -64360% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|--------------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|--------|-----|------|------|---|
| 14985206 | 0.05 PPB STD | ICPMS-6020B-C Cal2 | | | 1/19/2022 4:40:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.00006563 | 0.00006563 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00006236 | 0.00006236 | | 0.00005 | 0 | 0 | | 0.001 | | 125% | 80 | 120 | 0% | S |
| Arsenic | A | mg/L | 0.00004931 | 0.00004931 | | 0.00005 | 0 | 0 | | 0.001 | | 99% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.00005927 | 0.00005927 | | 0.00005 | 0 | 0 | | 0.0003 | | 119% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.00004913 | 0.00004913 | | 0.00005 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Boron | A | mg/L | -0.0003987 | -0.0003987 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0000613 | 0.0000613 | | 0.00005 | 0 | 0 | | 0.001 | | 123% | 80 | 120 | 0% | S |
| Calcium | A | mg/L | 0.01401 | 0.01401 | | 0.0125 | 0 | 0 | | 1 | | 112% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.00006062 | 0.00006062 | | 0.00005 | 0 | 0 | | 0.001 | | 121% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.00005715 | 0.00005715 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Copper | A | mg/L | 0.00003771 | 0.00003771 | | 0.00005 | 0 | 0 | | 0.005 | | 75% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.001396 | 0.001396 | | 0.00125 | 0 | 0 | | 0.01 | | 112% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.00005363 | 0.00005363 | | 0.00005 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.00005194 | 0.00005194 | | 0.00005 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.01249 | 0.01249 | | 0.0125 | 0 | 0 | | 1 | | 100% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.00004738 | 0.00004738 | | 0.00005 | 0 | 0 | | 0.001 | | 95% | 80 | 120 | 0% | |
| Mercury | A | mg/L | -5.592E-07 | -5.592E-07 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00004636 | 0.00004636 | | 0.00005 | 0 | 0 | | 0.001 | | 93% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.00005083 | 0.00005083 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.008203 | 0.008203 | | 0.0125 | 0 | 0 | | 1 | | 66% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.00005621 | 0.00005621 | | 0.00005 | 0 | 0 | | 0.005 | | 112% | 80 | 120 | 0% | |
| Silicon | A | mg/L | -0.02523 | -0.02523 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.00001906 | 0.00001906 | | 0.00002 | 0 | 0 | | 0.001 | | 95% | 80 | 120 | 0% | |
| Sodium | A | mg/L | -0.0003585 | -0.0003585 | | 0.0125 | 0 | 0 | | 1 | | -3% | 80 | 120 | 0% | S |
| Strontium | A | mg/L | 0.00005241 | 0.00005241 | | 0.00005 | 0 | 0 | | 0.001 | | 105% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.00005005 | 0.00005005 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00003159 | 0.00003159 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |
| Tin | A | mg/L | -0.002379 | -0.002379 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00007451 | 0.00007451 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.00005103 | 0.00005103 | | 0.00005 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.00005954 | 0.00005954 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | 0.00001975 | 0.00001975 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.001396 | 0.001396 | | 0.00005 | 0 | 0 | | 0.01 | 5 | 2792% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.0539922 | -0.0539922 | | 0.00428 | 0 | 0 | | 0.214 | 0.9 | -1262% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|----------|----------|-----------|--------|--------|--------|--------|-----|------|------|---|
| 14985207 | 0.10 PPB STD | ICPMS-6020B-C | Cal3 | | 1/19/2022 4:46:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0005498 | 0.0005498 | | 0.0001 | 0 | 0 | | 0.01 | | 550% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.0001139 | 0.0001139 | | 0.0001 | 0 | 0 | | 0.001 | | 114% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0001016 | 0.0001016 | | 0.0001 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0001161 | 0.0001161 | | 0.0001 | 0 | 0 | | 0.0003 | | 116% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.0001021 | 0.0001021 | | 0.0001 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Boron | A | mg/L | -0.0003879 | -0.0003879 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0001261 | 0.0001261 | | 0.0001 | 0 | 0 | | 0.001 | | 126% | 80 | 120 | 0% | S |
| Calcium | A | mg/L | 0.0322 | 0.0322 | | 0.025 | 0 | 0 | | 1 | | 129% | 80 | 120 | 0% | S |
| Chromium | A | mg/L | 0.0001228 | 0.0001228 | | 0.0001 | 0 | 0 | | 0.001 | | 123% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.0001219 | 0.0001219 | | 0.0001 | 0 | 0 | | 0.001 | | 122% | 80 | 120 | 0% | S |
| Copper | A | mg/L | 0.0001264 | 0.0001264 | | 0.0001 | 0 | 0 | | 0.005 | | 126% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.003252 | 0.003252 | | 0.0025 | 0 | 0 | | 0.01 | | 130% | 80 | 120 | 0% | S |
| Lanthanum | A | mg/L | 0.000117 | 0.000117 | | 0.0001 | 0 | 0 | | 0.001 | | 117% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.0001157 | 0.0001157 | | 0.0001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.02632 | 0.02632 | | 0.025 | 0 | 0 | | 1 | | 105% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.0001246 | 0.0001246 | | 0.0001 | 0 | 0 | | 0.001 | | 125% | 80 | 120 | 0% | S |
| Mercury | A | mg/L | 1.939E-07 | 1.939E-07 | | 0.000002 | 0 | 0 | | 0.001 | | 10% | 80 | 120 | 0% | S |
| Molybdenum | A | mg/L | 0.000115 | 0.000115 | | 0.0001 | 0 | 0 | | 0.001 | | 115% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0001355 | 0.0001355 | | 0.0001 | 0 | 0 | | 0.005 | | 136% | 80 | 120 | 0% | S |
| Potassium | A | mg/L | 0.02323 | 0.02323 | | 0.025 | 0 | 0 | | 1 | | 93% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.00006625 | 0.00006625 | | 0.0001 | 0 | 0 | | 0.005 | | 66% | 80 | 120 | 0% | S |
| Silicon | A | mg/L | -0.0347 | -0.0347 | | 0.0004 | 0 | 0 | | 0.1 | | -8675% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.00004745 | 0.00004745 | | 0.00004 | 0 | 0 | | 0.001 | | 119% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.02364 | 0.02364 | | 0.025 | 0 | 0 | | 1 | | 95% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.0001219 | 0.0001219 | | 0.0001 | 0 | 0 | | 0.001 | | 122% | 80 | 120 | 0% | S |
| Thallium | A | mg/L | 0.0001065 | 0.0001065 | | 0.0001 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.00008275 | 0.00008275 | | 0.0001 | 0 | 0 | | 0.05 | | 83% | 80 | 120 | 0% | |
| Tin | A | mg/L | -0.002339 | -0.002339 | | 0.0001 | 0 | 0 | | 0.001 | | -2339% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.000142 | 0.000142 | | 0.0001 | 0 | 0 | | 0.001 | | 142% | 80 | 120 | 0% | S |
| Uranium | A | mg/L | 0.0001109 | 0.0001109 | | 0.0001 | 0 | 0 | | 0.001 | | 111% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.00009245 | 0.00009245 | | 0.0001 | 0 | 0 | | 0.005 | | 92% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.0002357 | 0.0002357 | | 0.0001 | 0 | 0 | | 0.01 | | 236% | 80 | 120 | 0% | S |
| Iron, Ferrous | C | mg/L | 0.003252 | 0.003252 | | 0.0001 | 0 | 0 | | 0.01 | 5 | 3252% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.074258 | -0.074258 | | 0.00856 | 0 | 0 | | 0.214 | 0.9 | -868% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|--------------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|--------|-----|------|------|---|
| 14985208 | 0.5 PPB STD | ICPMS-6020B-C Cal4 | | | 1/19/2022 4:52:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0005409 | 0.0005409 | | 0.0005 | 0 | 0 | | 0.01 | | 108% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0004376 | 0.0004376 | | 0.0005 | 0 | 0 | | 0.001 | | 88% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0004641 | 0.0004641 | | 0.0005 | 0 | 0 | | 0.001 | | 93% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0004505 | 0.0004505 | | 0.0005 | 0 | 0 | | 0.0003 | | 90% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.0004772 | 0.0004772 | | 0.0005 | 0 | 0 | | 0.001 | | 95% | 80 | 120 | 0% | |
| Boron | A | mg/L | -4.613E-05 | -4.613E-05 | | 0.0005 | 0 | 0 | | 0.1 | | -9% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.0005062 | 0.0005062 | | 0.0005 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.1172 | 0.1172 | | 0.125 | 0 | 0 | | 1 | | 94% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.0004889 | 0.0004889 | | 0.0005 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.0004615 | 0.0004615 | | 0.0005 | 0 | 0 | | 0.001 | | 92% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0005308 | 0.0005308 | | 0.0005 | 0 | 0 | | 0.005 | | 106% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.01287 | 0.01287 | | 0.0125 | 0 | 0 | | 0.01 | | 103% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.0004984 | 0.0004984 | | 0.0005 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.0004926 | 0.0004926 | | 0.0005 | 0 | 0 | | 0.001 | | 99% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.1212 | 0.1212 | | 0.125 | 0 | 0 | | 1 | | 97% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.0005026 | 0.0005026 | | 0.0005 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 6.952E-06 | 6.952E-06 | | 0.00001 | 0 | 0 | | 0.001 | | 70% | 80 | 120 | 0% | S |
| Molybdenum | A | mg/L | 0.0005041 | 0.0005041 | | 0.0005 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0005091 | 0.0005091 | | 0.0005 | 0 | 0 | | 0.005 | | 102% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.1082 | 0.1082 | | 0.125 | 0 | 0 | | 1 | | 87% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.0006428 | 0.0006428 | | 0.0005 | 0 | 0 | | 0.005 | | 129% | 80 | 120 | 0% | S |
| Silicon | A | mg/L | -0.04016 | -0.04016 | | 0.002 | 0 | 0 | | 0.1 | | -2008% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.0002072 | 0.0002072 | | 0.0002 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.1151 | 0.1151 | | 0.125 | 0 | 0 | | 1 | | 92% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.0005141 | 0.0005141 | | 0.0005 | 0 | 0 | | 0.001 | | 103% | 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 | 0.0004087 | 0.0004087 | | 0.0005 | 0 | 0 | | 0.05 | | 82% | 80 | 120 | 0% | |
| Tin | A | mg/L | -0.001964 | -0.001964 | | 0.0005 | 0 | 0 | | 0.001 | | -393% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.0004574 | 0.0004574 | | 0.0005 | 0 | 0 | | 0.001 | | 91% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.0004703 | 0.0004703 | | 0.0005 | 0 | 0 | | 0.001 | | 94% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0004522 | 0.0004522 | | 0.0005 | 0 | 0 | | 0.005 | | 90% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.000531 | 0.000531 | | 0.0005 | 0 | 0 | | 0.01 | | 106% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 0.01287 | 0.01287 | | 0.0005 | 0 | 0 | | 0.01 | 5 | 2574% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.0859424 | -0.0859424 | | 0.0428 | 0 | 0 | | 0.214 | 0.9 | -201% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-----------|---------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|--------|-----|------|------|---|
| 14985209 | 1 PPB STD | ICPMS-6020B-C | Cal5 | | 1/19/2022 4:58:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001138 | 0.001138 | | 0.001 | 0 | 0 | | 0.01 | | 114% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.001072 | 0.001072 | | 0.001 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.001102 | 0.001102 | | 0.001 | 0 | 0 | | 0.001 | | 110% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.001087 | 0.001087 | | 0.001 | 0 | 0 | | 0.0003 | | 109% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.001082 | 0.001082 | | 0.001 | 0 | 0 | | 0.001 | | 108% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.0005368 | 0.0005368 | | 0.001 | 0 | 0 | | 0.1 | | 54% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.001144 | 0.001144 | | 0.001 | 0 | 0 | | 0.001 | | 114% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.2689 | 0.2689 | | 0.25 | 0 | 0 | | 1 | | 108% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.001126 | 0.001126 | | 0.001 | 0 | 0 | | 0.001 | | 113% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.001082 | 0.001082 | | 0.001 | 0 | 0 | | 0.001 | | 108% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.00121 | 0.00121 | | 0.001 | 0 | 0 | | 0.005 | | 121% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.02912 | 0.02912 | | 0.025 | 0 | 0 | | 0.01 | | 116% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.001109 | 0.001109 | | 0.001 | 0 | 0 | | 0.001 | | 111% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.001126 | 0.001126 | | 0.001 | 0 | 0 | | 0.001 | | 113% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.2842 | 0.2842 | | 0.25 | 0 | 0 | | 1 | | 114% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.001133 | 0.001133 | | 0.001 | 0 | 0 | | 0.001 | | 113% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.00002074 | 0.00002074 | | 0.00002 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.001233 | 0.001233 | | 0.001 | 0 | 0 | | 0.001 | | 123% | 80 | 120 | 0% | S |
| Nickel | A | mg/L | 0.001213 | 0.001213 | | 0.001 | 0 | 0 | | 0.005 | | 121% | 80 | 120 | 0% | S |
| Potassium | A | mg/L | 0.2453 | 0.2453 | | 0.25 | 0 | 0 | | 1 | | 98% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.001332 | 0.001332 | | 0.001 | 0 | 0 | | 0.005 | | 133% | 80 | 120 | 0% | S |
| Silicon | A | mg/L | -0.04743 | -0.04743 | | 0.004 | 0 | 0 | | 0.1 | | -1186% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.0004491 | 0.0004491 | | 0.0004 | 0 | 0 | | 0.001 | | 112% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.269 | 0.269 | | 0.25 | 0 | 0 | | 1 | | 108% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.001087 | 0.001087 | | 0.001 | 0 | 0 | | 0.001 | | 109% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.001136 | 0.001136 | | 0.001 | 0 | 0 | | 0.001 | | 114% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.001007 | 0.001007 | | 0.001 | 0 | 0 | | 0.05 | | 101% | 80 | 120 | 0% | |
| Tin | A | mg/L | -0.001281 | -0.001281 | | 0.001 | 0 | 0 | | 0.001 | | -128% | 80 | 120 | 0% | S |
| Titanium | A | mg/L | 0.001099 | 0.001099 | | 0.001 | 0 | 0 | | 0.001 | | 110% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.001077 | 0.001077 | | 0.001 | 0 | 0 | | 0.001 | | 108% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.001083 | 0.001083 | | 0.001 | 0 | 0 | | 0.005 | | 108% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.001159 | 0.001159 | | 0.001 | 0 | 0 | | 0.01 | | 116% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 0.02912 | 0.02912 | | 0.001 | 0 | 0 | | 0.01 | 5 | 2912% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.1015002 | -0.1015002 | | 0.0856 | 0 | 0 | | 0.214 | 0.9 | -119% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|------------|--------------------|------------|------------|------------------|--------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985210 | 10 PPB STD | ICPMS-6020B-C Cal6 | | | 1/19/2022 5:04:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.009137 | 0.009137 | | 0.01 | 0 | 0 | | 0.01 | | 91% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.009517 | 0.009517 | | 0.01 | 0 | 0 | | 0.001 | | 95% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.01016 | 0.01016 | | 0.01 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.009545 | 0.009545 | | 0.01 | 0 | 0 | | 0.0003 | | 95% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.008806 | 0.008806 | | 0.01 | 0 | 0 | | 0.001 | | 88% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.008351 | 0.008351 | | 0.01 | 0 | 0 | | 0.1 | | 84% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.009646 | 0.009646 | | 0.01 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 2.514 | 2.514 | | 2.5 | 0 | 0 | | 1 | | 101% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.009875 | 0.009875 | | 0.01 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.00941 | 0.00941 | | 0.01 | 0 | 0 | | 0.001 | | 94% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.01062 | 0.01062 | | 0.01 | 0 | 0 | | 0.005 | | 106% | 90 | 110 | 0% | |
| Iron | A | mg/L | 0.2549 | 0.2549 | | 0.25 | 0 | 0 | | 0.01 | | 102% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.009559 | 0.009559 | | 0.01 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.009571 | 0.009571 | | 0.01 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 2.322 | 2.322 | | 2.5 | 0 | 0 | | 1 | | 93% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.009762 | 0.009762 | | 0.01 | 0 | 0 | | 0.001 | | 98% | 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 | 0.01057 | 0.01057 | | 0.01 | 0 | 0 | | 0.001 | | 106% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.01035 | 0.01035 | | 0.01 | 0 | 0 | | 0.005 | | 103% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 2.232 | 2.232 | | 2.5 | 0 | 0 | | 1 | | 89% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.01152 | 0.01152 | | 0.01 | 0 | 0 | | 0.005 | | 115% | 90 | 110 | 0% | S |
| Silicon | A | mg/L | -0.0001659 | -0.0001659 | | 0.04 | 0 | 0 | | 0.1 | | 0% | 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 | 2.374 | 2.374 | | 2.5 | 0 | 0 | | 1 | | 95% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.01004 | 0.01004 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.0102 | 0.0102 | | 0.01 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.0099 | 0.0099 | | 0.01 | 0 | 0 | | 0.05 | | 99% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.007551 | 0.007551 | | 0.01 | 0 | 0 | | 0.001 | | 76% | 90 | 110 | 0% | S |
| Titanium | A | mg/L | 0.009082 | 0.009082 | | 0.01 | 0 | 0 | | 0.001 | | 91% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.009236 | 0.009236 | | 0.01 | 0 | 0 | | 0.001 | | 92% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.009719 | 0.009719 | | 0.01 | 0 | 0 | | 0.005 | | 97% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.009726 | 0.009726 | | 0.01 | 0 | 0 | | 0.01 | | 97% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.2549 | 0.2549 | | 0.01 | 0 | 0 | | 0.01 | 5 | 2549% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.0003550 | -0.0003550 | | 0.856 | 0 | 0 | | 0.214 | 0.9 | 0% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|------------|--------------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985211 | 50 PPB STD | ICPMS-6020B-C Cal7 | | | 1/19/2022 5:10:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04903 | 0.04903 | | 0.05 | 0 | 0 | | 0.01 | | 98% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.04857 | 0.04857 | | 0.05 | 0 | 0 | | 0.001 | | 97% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05059 | 0.05059 | | 0.05 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.048 | 0.048 | | 0.05 | 0 | 0 | | 0.0003 | | 96% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04942 | 0.04942 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.04814 | 0.04814 | | 0.05 | 0 | 0 | | 0.1 | | 96% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.04991 | 0.04991 | | 0.05 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.42 | 12.42 | | 12.5 | 0 | 0 | | 1 | | 99% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04986 | 0.04986 | | 0.05 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.0472 | 0.0472 | | 0.05 | 0 | 0 | | 0.001 | | 94% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05079 | 0.05079 | | 0.05 | 0 | 0 | | 0.005 | | 102% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.283 | 1.283 | | 1.25 | 0 | 0 | | 0.01 | | 103% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.0493 | 0.0493 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04947 | 0.04947 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 11.84 | 11.84 | | 12.5 | 0 | 0 | | 1 | | 95% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.04967 | 0.04967 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.00101 | 0.00101 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05107 | 0.05107 | | 0.05 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05045 | 0.05045 | | 0.05 | 0 | 0 | | 0.005 | | 101% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 11.19 | 11.19 | | 12.5 | 0 | 0 | | 1 | | 90% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05315 | 0.05315 | | 0.05 | 0 | 0 | | 0.005 | | 106% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.1888 | 0.1888 | | 0.2 | 0 | 0 | | 0.1 | | 94% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.01992 | 0.01992 | | 0.02 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.72 | 12.72 | | 12.5 | 0 | 0 | | 1 | | 102% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.04963 | 0.04963 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.0519 | 0.0519 | | 0.05 | 0 | 0 | | 0.001 | | 104% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05179 | 0.05179 | | 0.05 | 0 | 0 | | 0.05 | | 104% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04721 | 0.04721 | | 0.05 | 0 | 0 | | 0.001 | | 94% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.0468 | 0.0468 | | 0.05 | 0 | 0 | | 0.001 | | 94% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04879 | 0.04879 | | 0.05 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04936 | 0.04936 | | 0.05 | 0 | 0 | | 0.005 | | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05073 | 0.05073 | | 0.05 | 0 | 0 | | 0.01 | | 101% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.283 | 1.283 | | 0.05 | 0 | 0 | | 0.01 | 5 | 2566% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.404032 | 0.404032 | | 4.28 | 0 | 0 | | 0.214 | 0.9 | 9% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|--------------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14985212 | 100 PPB STD | ICPMS-6020B-C Cal8 | | | 1/19/2022 5:16:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.1006 | 0.1006 | | 0.1 | 0 | 0 | | 0.01 | | 101% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.1008 | 0.1008 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.09969 | 0.09969 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.101 | 0.101 | | 0.1 | 0 | 0 | | 0.0003 | | 101% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.1004 | 0.1004 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.1011 | 0.1011 | | 0.1 | 0 | 0 | | 0.1 | | 101% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.1001 | 0.1001 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 23.77 | 23.77 | | 25 | 0 | 0 | | 1 | | 95% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.1001 | 0.1001 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.1015 | 0.1015 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.09954 | 0.09954 | | 0.1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Iron | A | mg/L | 2.602 | 2.602 | | 2.5 | 0 | 0 | | 0.01 | | 104% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.1004 | 0.1004 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.1003 | 0.1003 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 24.39 | 24.39 | | 25 | 0 | 0 | | 1 | | 98% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.1002 | 0.1002 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.001996 | 0.001996 | | 0.002 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.09941 | 0.09941 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.09974 | 0.09974 | | 0.1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 24.09 | 24.09 | | 25 | 0 | 0 | | 1 | | 96% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.09827 | 0.09827 | | 0.1 | 0 | 0 | | 0.005 | | 98% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.4104 | 0.4104 | | 0.4 | 0 | 0 | | 0.1 | | 103% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.04004 | 0.04004 | | 0.04 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 24.63 | 24.63 | | 25 | 0 | 0 | | 1 | | 99% | 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 | 0.09903 | 0.09903 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.09912 | 0.09912 | | 0.1 | 0 | 0 | | 0.05 | | 99% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.1017 | 0.1017 | | 0.1 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.1017 | 0.1017 | | 0.1 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.1007 | 0.1007 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.1003 | 0.1003 | | 0.1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.09966 | 0.09966 | | 0.1 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 2.602 | 2.602 | | 0.1 | 0 | 0 | | 0.01 | 5 | 2602% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.878256 | 0.878256 | | 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 | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985213 | 1000 PPB STD | ICPMS-6020B-C | Cal10 | | 1/19/2022 5:21:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 1.017 | 1.017 | | 1 | 0 | 0 | | 0.01 | | 102% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.0001085 | 0.0001085 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Arsenic | A | mg/L | 1.01 | 1.01 | | 1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.9526 | 0.9526 | | 1 | 0 | 0 | | 0.0003 | | 95% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.995 | 0.995 | | 1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.9843 | 0.9843 | | 1 | 0 | 0 | | 0.1 | | 98% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.9848 | 0.9848 | | 1 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 50.63 | 50.63 | | 50 | 0 | 0 | | 1 | | 101% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 1.068 | 1.068 | | 1 | 0 | 0 | | 0.001 | | 107% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 1.043 | 1.043 | | 1 | 0 | 0 | | 0.001 | | 104% | 90 | 110 | 0% | |
| Copper | A | mg/L | 1.007 | 1.007 | | 1 | 0 | 0 | | 0.005 | | 101% | 90 | 110 | 0% | |
| Iron | A | mg/L | 6.003 | 6.003 | | 6 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.00001252 | 0.00001252 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Lead | A | mg/L | 0.9456 | 0.9456 | | 1 | 0 | 0 | | 0.001 | | 95% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 50.48 | 50.48 | | 50 | 0 | 0 | | 1 | | 101% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 1.027 | 1.027 | | 1 | 0 | 0 | | 0.001 | | 103% | 90 | | 0% | |
| Mercury | A | mg/L | 0.00001021 | 0.00001021 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00004479 | 0.00004479 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Nickel | A | mg/L | 1.037 | 1.037 | | 1 | 0 | 0 | | 0.005 | | 104% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 50.79 | 50.79 | | 50 | 0 | 0 | | 1 | | 102% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.9916 | 0.9916 | | 1 | 0 | 0 | | 0.005 | | 99% | 90 | 110 | 0% | |
| Silicon | A | mg/L | -0.06033 | -0.06033 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.3453 | 0.3453 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Sodium | A | mg/L | 50.14 | 50.14 | | 50 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 1.018 | 1.018 | | 1 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.9263 | 0.9263 | | 1 | 0 | 0 | | 0.001 | | 93% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.9589 | 0.9589 | | 1 | 0 | 0 | | 0.05 | | 96% | 90 | 110 | 0% | |
| Tin | A | mg/L | -0.002332 | -0.002332 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.006022 | 0.006022 | | 1 | 0 | 0 | | 0.001 | | 1% | 90 | 110 | 0% | S |
| Uranium | A | mg/L | 0.9586 | 0.9586 | | 1 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 1.065 | 1.065 | | 1 | 0 | 0 | | 0.005 | | 106% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.9985 | 0.9985 | | 1 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 6.003 | 6.003 | | 0 | 0 | 0 | | 0.01 | 5 | 0% | | | 0% | |
| Silicon as SiO2 | C | mg/L | -0.1291062 | -0.1291062 | | 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 | | | | | |
|---------------|-----------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985214 | 100 ppb Bromine | ICPMS-6020-W- | SAMP | | 1/19/2022 5:27:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.009077 | 0.009077 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00002214 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.000143 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.0001376 | 0.0001376 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Beryllium | A | mg/L | 0.0001928 | 0.0001928 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cadmium | A | mg/L | 0.0000985 | 0.0000985 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.00000391 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.0001453 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.0001107 | 0.0001107 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0001956 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.0001171 | 0.0001171 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.0001192 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.00000398 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001768 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.0002128 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.001581 | 0.001581 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.0000991 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0003628 | 0.0003628 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Titanium | A | mg/L | 0.00008862 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0001259 | 0.0001259 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Boron | B | mg/L | 0.005777 | 0.005777 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.001235 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Iron, Ferrous | B | mg/L | 0.001235 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 0.03946 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | L |
| Thorium | B | mg/L | 0.0002959 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.00001983 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | 0.0006131 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|----------|--------|---------------|------------|----------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14985215 | Rinse | ICPMS-6020-W- | SAMP | | 1/19/2022 5:33:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001119 | 0.001119 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | -1.692E-06 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00001964 | 0 | | 0 | 0 | 0 | 0.0001814 | 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 | | | | | |
|---------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985215 | Rinse | ICPMS-6020-W- | SAMP | | 1/19/2022 5:33:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Barium | A | mg/L | 0.00004017 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0.00005676 | 0 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00001977 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 8.56E-07 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00001121 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00001346 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.00001657 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001299 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 7.373E-06 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 1.344E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 7.478E-06 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -1.223E-07 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.0001701 | 0.0001701 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 0.00001544 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0002095 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 5.939E-06 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001554 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.001265 | 0 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0003575 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Iron, Ferrous | B | mg/L | 0.0003575 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 0.1272 | 0.1272 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00005305 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | -0.0000792 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | 0.00004756 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|-----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985216 | QCS | ICPMS-6020-W- | ICV | | 1/19/2022 5:38:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.2541 | 0.2541 | | 0.25 | 0 | 0 | 0.0006548 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.04968 | 0.04968 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 99% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.0509 | 0.0509 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05037 | 0.05037 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.02504 | 0.02504 | | 0.025 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05056 | 0.05056 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 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 | | | | | |
|---------------|--------|-------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985216 | QCS | ICPMS-6020-W- ICV | | | 1/19/2022 5:38:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cadmium | A | mg/L | 0.02705 | 0.02705 | | 0.025 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 108% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 2.601 | 2.601 | | 2.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 104% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05227 | 0.05227 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 105% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05148 | 0.05148 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04982 | 0.04982 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05452 | 0.05452 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 109% | 90 | 110 | 0% | |
| Iron | A | mg/L | 0.2453 | 0.2453 | | 0.25 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 98% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05103 | 0.05103 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05076 | 0.05076 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.04488 | 0.04488 | | 0.05 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 90% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 2.403 | 2.403 | | 2.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 96% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.2541 | 0.2541 | | 0.25 | 0 | 0 | 0.0001444 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009787 | 0.0009787 | | 0.001 | 0 | 0 | 0.0000666 | 0.001 | 0.02 | 98% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.04802 | 0.04802 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 96% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05286 | 0.05286 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 2.413 | 2.413 | | 2.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 97% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05295 | 0.05295 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.565 | 0.565 | | 0.5 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 113% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.02492 | 0.02492 | | 0.025 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 100% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 2.489 | 2.489 | | 2.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 100% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.04863 | 0.04863 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05363 | 0.05363 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 107% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05313 | 0.05313 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 106% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04942 | 0.04942 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 99% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04851 | 0.04851 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05216 | 0.05216 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 104% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.05067 | 0.05067 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 101% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05368 | 0.05368 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 107% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.2453 | 0.2453 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|----------|--------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985217 | ICSA | ICPMS-6020-W- ICSA | | | 1/19/2022 5:44:4 | 1 | R373351 | | 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 | | | | | |
|---------------|--------|--------------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985217 | ICSA | ICPMS-6020-W- ICSA | | | 1/19/2022 5:44:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 36.35 | 36.35 | | 40 | 0 | 0 | 0.0006548 | 0.001 | 1 | 91% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0000504 | 0.0000504 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.00006899 | 0.00006899 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | 0.0000704 | 0.0000704 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | 0.00001687 | 0.00001687 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.0006054 | 0.0006054 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0001979 | 0.0001979 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | 106.6 | 106.6 | | 120 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 89% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 4.632E-06 | 4.632E-06 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Chromium | A | mg/L | 0.0008709 | 0.0008709 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | 0.0003529 | 0.0003529 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | 0.00002341 | 0.00002341 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | 90.8 | 90.8 | | 100 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 91% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.00001013 | 0.00001013 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Lead | A | mg/L | 0.00001918 | 0.00001918 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | 0% | |
| Lithium | A | mg/L | -0.0001796 | -0.0001796 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | 0% | |
| Magnesium | A | mg/L | 38.62 | 38.62 | | 50 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 77% | | | 0% | |
| Manganese | A | mg/L | 0.0001812 | 0.0001812 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | 0% | |
| Mercury | A | mg/L | 5.591E-06 | 5.591E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.7712 | 0.7712 | | 0.8 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 96% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0001704 | 0.0001704 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | 35.3 | 35.3 | | 50 | 0 | 0 | 0.207399 | 0.207399 | 50 | 71% | | | 0% | |
| Selenium | A | mg/L | 0.0001392 | 0.0001392 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | -0.06645 | -0.06645 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | | | 0% | |
| Silver | A | mg/L | 0.00005844 | 0.00005844 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | 96.16 | 96.16 | | 100 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 96% | | | 0% | |
| Strontium | A | mg/L | 0.001214 | 0.001214 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | | | 0% | |
| Thallium | A | mg/L | 0.0001769 | 0.0001769 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | | | 0% | |
| Thorium | A | mg/L | 0.0001569 | 0.0001569 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | | | 0% | |
| Tin | A | mg/L | -0.002146 | -0.002146 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | | | 0% | |
| Titanium | A | mg/L | 0.7884 | 0.7884 | | 0.8 | 0 | 0 | 0.0002974 | 0.001 | 1 | 99% | | | 0% | |
| Uranium | A | mg/L | 6.311E-06 | 6.311E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | | | 0% | |
| Vanadium | A | mg/L | -0.0001624 | -0.0001624 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | | | 0% | |
| Zinc | A | mg/L | 0.0004544 | 0.0004544 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 90.8 | 90.8 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985218 | IC SAB | ICPMS-6020-W- ICSAB | | | 1/19/2022 5:50:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 34.29 | 34.29 | | 40 | 0 | 0 | 0.0006548 | 0.001 | 1 | 86% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.00001619 | 0.00001619 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.01042 | 0.01042 | | 0.01 | 0 | 0 | 0.0001814 | 0.001 | 1 | 104% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.00006868 | 0.00006868 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | 0.00002178 | 0.00002178 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | -0.000295 | -0.000295 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.009732 | 0.009732 | | 0.01 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 97% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 96.84 | 96.84 | | 120 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 81% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 4.297E-06 | 4.297E-06 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Chromium | A | mg/L | 0.02019 | 0.02019 | | 0.02 | 0 | 0 | 0.0005481 | 0.001 | 1 | 101% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.01893 | 0.01893 | | 0.02 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 95% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.01951 | 0.01951 | | 0.02 | 0 | 0 | 0.0003828 | 0.001 | 1 | 98% | 80 | 120 | 0% | |
| Iron | A | mg/L | 86.81 | 86.81 | | 100 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 87% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 8.962E-06 | 8.962E-06 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Lead | A | mg/L | 0.00001885 | 0.00001885 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | 0% | |
| Lithium | A | mg/L | -0.0005909 | -0.0005909 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | 0% | |
| Magnesium | A | mg/L | 36 | 36 | | 40 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 90% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.01844 | 0.01844 | | 0.02 | 0 | 0 | 0.0001444 | 0.001 | 1 | 92% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 1.381E-06 | 1.381E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.7958 | 0.7958 | | 0.8 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 99% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.01986 | 0.01986 | | 0.02 | 0 | 0 | 0.0002531 | 0.001 | 1 | 99% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 32.99 | 32.99 | | 40 | 0 | 0 | 0.207399 | 0.207399 | 50 | 82% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.01098 | 0.01098 | | 0.01 | 0 | 0 | 0.0001415 | 0.001 | 1 | 110% | 80 | 120 | 0% | |
| Silicon | A | mg/L | -0.06594 | -0.06594 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | | | 0% | |
| Silver | A | mg/L | 0.004843 | 0.004843 | | 0.005 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 97% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 92.37 | 92.37 | | 100 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 92% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.001226 | 0.001226 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | | | 0% | |
| Thallium | A | mg/L | 0.0001433 | 0.0001433 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | | | 0% | |
| Thorium | A | mg/L | 0.0000863 | 0.0000863 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | | | 0% | |
| Tin | A | mg/L | -0.002154 | -0.002154 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | | | 0% | |
| Titanium | A | mg/L | 0.7268 | 0.7268 | | 0.8 | 0 | 0 | 0.0002974 | 0.001 | 1 | 91% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 2.057E-06 | 2.057E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | | | 0% | |
| Vanadium | A | mg/L | 0.01855 | 0.01855 | | 0.02 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 93% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.01011 | 0.01011 | | 0.01 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 101% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 86.81 | 86.81 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985219 | Rinse | ICPMS-6020-W- | SAMP | | 1/19/2022 5:56:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0008047 | 0.0008047 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Antimony | A | mg/L | 0.00001088 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00004529 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00007118 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00006788 | 0.00006788 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.00001098 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00006033 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00005198 | 0.00005198 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.00005872 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00005762 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.00006848 | 0 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | -8.672E-08 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0001032 | 0.0001032 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.00004375 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.00003135 | 0.00003135 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 0.00006096 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0001686 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.0000593 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00005118 | 0.00005118 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Iron | B | mg/L | 0.002587 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Iron, Ferrous | B | mg/L | 0.002587 | 0 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 0.02861 | 0 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | L |
| Thorium | B | mg/L | 0.00004952 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | -9.041E-05 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | 0.00008212 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|-----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14985220 | CCV | ICPMS-6020-W- | CCV | | 1/19/2022 6:01:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04523 | 0.04523 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 90% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.04601 | 0.04601 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 92% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05165 | 0.05165 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04814 | 0.04814 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04103 | 0.04103 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 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 | | | | | |
|---------------|--------|-------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14985220 | CCV | ICPMS-6020-W- CCV | | | 1/19/2022 6:01:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Boron | A | mg/L | 0.04033 | 0.04033 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 81% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.04959 | 0.04959 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 11.07 | 11.07 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 89% | 90 | 110 | 0% | S |
| Cerium | A | mg/L | 0.04877 | 0.04877 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05099 | 0.05099 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04717 | 0.04717 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05247 | 0.05247 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.168 | 1.168 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 90% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.0493 | 0.0493 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 99% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04831 | 0.04831 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.3681 | 0.3681 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 59% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 10.9 | 10.9 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 87% | 90 | 110 | 0% | S |
| Manganese | A | mg/L | 0.04665 | 0.04665 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 93% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009892 | 0.0009892 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 99% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05025 | 0.05025 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 100% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05192 | 0.05192 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 10.64 | 10.64 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 85% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.05446 | 0.05446 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 109% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.1795 | 0.1795 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 90% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02012 | 0.02012 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 101% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 11.79 | 11.79 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 94% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.0513 | 0.0513 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.0508 | 0.0508 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05132 | 0.05132 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 103% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04699 | 0.04699 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 94% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04643 | 0.04643 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 93% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04786 | 0.04786 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 96% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.0486 | 0.0486 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 97% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.0519 | 0.0519 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 104% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.168 | 1.168 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|----------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14985221 | CCB | ICPMS-6020-W- CCB | | | 1/19/2022 6:07:3 | 1 | R373351 | | 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 | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14985221 | CCB | ICPMS-6020-W- | CCB | | 1/19/2022 6:07:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001734 | 0.0001734 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.00003263 | 0.00003263 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | 1.997E-06 | 1.997E-06 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | 3.884E-06 | 3.884E-06 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | 0.00002558 | 0.00002558 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | -0.0001061 | -0.0001061 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | 5.024E-07 | 5.024E-07 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | 0.0003661 | 0.0003661 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | 1.103E-06 | 1.103E-06 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | 0.00001348 | 0.00001348 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | 2.286E-06 | 2.286E-06 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | 4.363E-07 | 4.363E-07 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | 0.0008886 | 0.0008886 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | 1.779E-07 | 1.779E-07 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 1.919E-06 | 1.919E-06 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | | 0% |
| Lithium | A | mg/L | -0.0007969 | -0.0007969 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | | 0% |
| Magnesium | A | mg/L | -0.0005714 | -0.0005714 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | -6.216E-06 | -6.216E-06 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 4.956E-06 | 4.956E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | | 0% |
| Molybdenum | A | mg/L | 0.00002203 | 0.00002203 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | -1.837E-05 | -1.837E-05 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | 0.001241 | 0.001241 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.00005299 | 0.00005299 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | -0.06969 | -0.06969 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | 0.00001094 | 0.00001094 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | -0.01214 | -0.01214 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | 1.881E-06 | 1.881E-06 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.00009062 | 0.00009062 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.0000314 | 0.0000314 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | 0.0002201 | 0.0002201 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.00000503 | 0.00000503 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 2.046E-06 | 2.046E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | -0.0001168 | -0.0001168 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | -4.588E-06 | -4.588E-06 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | 0.0008886 | 0.0008886 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|---------------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14985222 | B22010751-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 6:13:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Copper | A | mg/L | 0.003026 | 0.003026 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00007415 | 0.00007415 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Aluminum | B | mg/L | 0.007666 | 0.007666 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Antimony | B | mg/L | 0.0001937 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | B | mg/L | 0.0005006 | 0.0005006 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | B | mg/L | 0.07784 | 0.07784 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | B | mg/L | 0.0000741 | 0.0000741 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | B | mg/L | 0.00001642 | 0.00001642 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | B | mg/L | 0.001328 | 0.001328 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | B | mg/L | 0.0009353 | 0.0009353 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Iron | B | mg/L | 0.007702 | 0.007702 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | UD |
| Iron, Ferrous | B | mg/L | 0.007702 | 0.007702 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | 0% | UD |
| Manganese | B | mg/L | 0.1321 | 0.1321 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | B | mg/L | 6.791E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | B | mg/L | 0.001579 | 0.001579 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | B | mg/L | 0.007172 | 0.007172 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | B | mg/L | -7.111E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | B | mg/L | 0.3701 | 0.3701 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | B | mg/L | 0.00008374 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Thorium | B | mg/L | 0.00005992 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | B | mg/L | 0.001696 | 0.001696 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | B | mg/L | 0.0002716 | 0.0002716 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Vanadium | B | mg/L | 0.009638 | 0.009638 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | UD |
| Zinc | B | mg/L | 0.009536 | 0.009536 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|----------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14987728 | B22010971-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 6:19:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0004223 | 0.0004223 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Arsenic | A | mg/L | 0.001495 | 0.001495 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.02037 | 0.02037 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 3.754E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 1.856E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Chromium | A | mg/L | 0.002148 | 0.002148 | | 0 | 0 | 0 | 0.0005481 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14987728 | B22010971-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 6:19:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cobalt | A | mg/L | 0.00002415 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Copper | A | mg/L | 0.0002148 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.0001167 | 0.0001167 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.00001857 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.004748 | 0.004748 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.0003526 | 0.0003526 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -6.939E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.1131 | 0.1131 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00005609 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.001362 | 0.001362 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0002638 | 0.0002638 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Sodium | B | mg/L | 41.12 | 41.12 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | -0.0000147 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.009093 | 0.009093 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | UD |
| Zinc | B | mg/L | 0.004286 | 0.004286 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|------------|------------------|-------|----------|--------------|-----------|--------|--------|------|-----|------|------|---|
| 14987729 | B22010971-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 6:25:1 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.001501 | 0.001501 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.02173 | 0.02173 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00002234 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.00005411 | 0.00005411 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.00005673 | 0 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 0.00002107 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00004372 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.008162 | 0.008162 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00559 | 0.00559 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001159 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.0000344 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.1269 | 0.1269 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00003037 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.003366 | 0.003366 | | 0 | 0 | 0 | 0.0001634 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0002998 | 0.0002998 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 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 | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987729 | B22010971-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 6:25:1 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | B | mg/L | 0.0004418 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Chromium | B | mg/L | 0.00269 | 0.00269 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | D |
| Copper | B | mg/L | 0.0006115 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Nickel | B | mg/L | 0.0004916 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 49.45 | 49.45 | | 0 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00009433 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.0104 | 0.0104 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 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 | | | | | |
|------------|---------------|---------------|------------|----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987730 | B22010971-001 | ICPMS-6020-W- | SD | | 1/19/2022 6:30:5 | 5 | 162992 | 1/17/2022 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 | 0.007542 | 0.03771 | | 0 | 0 | 0.03352 | 0.0159875 | 0.0159875 | 1 | 0% | 0 | 0 | | N |
| Antimony | A | mg/L | 0.00008447 | 0 | | 0 | 0 | 0 | 0.0049 | 0.0106858 | 0.1 | 0% | 0 | 0 | | |
| Arsenic | A | mg/L | 0.0003024 | 0.001512 | | 0 | 0 | 0.001501 | 0.0013383 | 0.0013383 | 1 | 0% | 0 | 0 | | N |
| Barium | A | mg/L | 0.004657 | 0.023285 | | 0 | 0 | 0.02173 | 0.0012039 | 0.0012039 | 1 | 0% | 0 | 0 | 7% | |
| Beryllium | A | mg/L | 3.695E-06 | 0 | | 0 | 0 | 0 | 0.0007817 | 0.01 | 1 | 0% | 0 | 0 | | |
| Boron | A | mg/L | 0.007351 | 0 | | 0 | 0 | 0.03606 | 0.07335 | 0.07335 | 1 | 0% | 0 | 0 | | |
| Cadmium | A | mg/L | 0.0000259 | 0 | | 0 | 0 | 0 | 0.0002284 | 0.005 | 1 | 0% | 0 | 0 | | |
| Calcium | A | mg/L | 2.357 | 11.785 | | 0 | 0 | 11.99 | 0.5517403 | 0.5517403 | 150 | 0% | 0 | 0 | 2% | |
| Cerium | A | mg/L | 0.0000134 | 0 | | 0 | 0 | 5.411E-05 | 0.00025 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Chromium | A | mg/L | 0.0004723 | 0 | | 0 | 0 | 0.00269 | 0.0077 | 0.0077 | 1 | 0% | 0 | 0 | | |
| Cobalt | A | mg/L | 0.00001001 | 0 | | 0 | 0 | 0 | 0.00036 | 0.001 | 1 | 0% | 0 | 0 | | |
| Copper | A | mg/L | 0.0001438 | 0 | | 0 | 0 | 0 | 0.0099 | 0.017376 | 1 | 0% | 0 | 0 | | |
| Iron | A | mg/L | 0.006265 | 0.031325 | | 0 | 0 | 0.03101 | 0.02565 | 0.02565 | 5 | 0% | 0 | 0 | | N |
| Lanthanum | A | mg/L | 5.415E-06 | 0 | | 0 | 0 | 0 | 0.000275 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Lead | A | mg/L | 0.00001384 | 0 | | 0 | 0 | 0 | 0.0003858 | 0.001 | 1 | 0% | 0 | 0 | | |
| Magnesium | A | mg/L | 1.796 | 8.98 | | 0 | 0 | 9.482 | 0.0407608 | 0.0407608 | 50 | 0% | 0 | 0 | 5% | |
| Manganese | A | mg/L | 0.001454 | 0.00727 | | 0 | 0 | 0.008162 | 0.0010695 | 0.0010695 | 1 | 0% | 0 | 0 | | N |
| Molybdenum | A | mg/L | 0.001152 | 0.00576 | | 0 | 0 | 0.00559 | 0.0008814 | 0.001 | 0.1 | 0% | 0 | 0 | | N |
| Nickel | A | mg/L | 0.0001076 | 0 | | 0 | 0 | 0 | 0.0121000 | 0.0121000 | 1 | 0% | 0 | 0 | | |
| Potassium | A | mg/L | 0.5349 | 2.6745 | | 0 | 0 | 3.116 | 0.1306027 | 0.1306027 | 50 | 0% | 0 | 0 | 15% | R |
| Selenium | A | mg/L | 0.0000302 | 0 | | 0 | 0 | 0 | 0.0029274 | 0.0029274 | 1 | 0% | 0 | 0 | | |
| Silicon | A | mg/L | 4.7 | 23.5 | | 0 | 0 | 23.35 | 0.026606 | 0.026606 | 0.4 | 0% | 0 | 0 | 1% | |
| Silver | A | mg/L | -0.0000642 | 0 | | 0 | 0 | 0 | 0.0002158 | 0.001 | 0.04 | 0% | 0 | 0 | | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|------------------|------------|----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987730 | B22010971-001 | ICPMS-6020-W- SD | | | 1/19/2022 6:30:5 | 5 | 162992 | 1/17/2022 1: | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Sodium | A | mg/L | 8.799 | 43.995 | | 0 | 0 | 49.45 | 3.6651346 | 3.6651346 | 50 | 0% | 0 | 0 | 12% | R |
| Strontium | A | mg/L | 0.02489 | 0.12445 | | 0 | 0 | 0.1269 | 0.0006322 | 0.001 | 1 | 0% | 0 | 0 | 2% | |
| Thallium | A | mg/L | 0.00002316 | 0 | | 0 | 0 | 0 | 0.0005569 | 0.001 | 1 | 0% | 0 | 0 | | |
| Thorium | A | mg/L | -9.021E-07 | 0 | | 0 | 0 | 0 | 0.02075 | 0.02075 | 1 | 0% | 0 | 0 | | |
| Tin | A | mg/L | -0.002334 | 0 | | 0 | 0 | 0 | 0.0055874 | 0.0055874 | 0.1 | 0% | 0 | 0 | | |
| Titanium | A | mg/L | 0.0006318 | 0.003159 | | 0 | 0 | 0.003366 | 0.0008168 | 0.001 | 1 | 0% | 0 | 0 | | N |
| Uranium | A | mg/L | 0.00006062 | 0 | | 0 | 0 | 0.0002998 | 0.0004224 | 0.0004224 | 1 | 0% | 0 | 0 | | |
| Vanadium | A | mg/L | 0.001713 | 0 | | 0 | 0 | 0.0104 | 0.0105423 | 0.0105423 | 1 | 0% | 0 | 0 | | |
| Zinc | A | mg/L | 0.001992 | 0 | | 0 | 0 | 0.02303 | 0.0327721 | 0.0327721 | 1 | 0% | 0 | 0 | | |
| Silica | C | mg/L | 10.05424 | 50.2712 | | 0 | 0 | 0 | 0.0569155 | 0.0569155 | 5 | 0% | 0 | 0 | | N |
| Silicon as SiO2 | C | mg/L | 10.05424 | 50.2712 | | 0 | 0 | 0 | 0.0569155 | 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 | | | | | |
|------------|---------------|--------------------|------------|-----------|------------------|--------|-----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987731 | B22010971-001 | ICPMS-6020-W- PDS1 | | | 1/19/2022 6:36:3 | 1.03 | 162992 | 1/17/2022 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 | 0.07638 | 0.0786714 | | 0.0515 | 0.03352 | 0 | 0.0032934 | 0.0032934 | 1 | 88% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.04363 | 0.0449389 | | 0.0515 | 0 | 0 | 0.0010094 | 0.0022013 | 0.1 | 87% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.04882 | 0.0502846 | | 0.0515 | 0.001501 | 0 | 0.0002757 | 0.001 | 1 | 95% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.06633 | 0.0683199 | | 0.0515 | 0.02173 | 0 | 0.0002480 | 0.001 | 1 | 90% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.04028 | 0.0414884 | | 0.0515 | 0 | 0 | 0.0001610 | 0.01 | 1 | 81% | 75 | 125 | 0% | |
| Boron | A | mg/L | 0.07992 | 0.0823176 | | 0.0515 | 0.03606 | 0 | 0.0151101 | 0.0151101 | 1 | 90% | 75 | 125 | 0% | |
| Cadmium | A | mg/L | 0.04277 | 0.0440531 | | 0.0515 | 0 | 0 | 4.704E-05 | 0.005 | 1 | 86% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 53.27 | 54.8681 | | 51.5 | 11.99 | 0 | 0.1136585 | 0.1136585 | 150 | 83% | 75 | 125 | 0% | |
| Cerium | A | mg/L | 0.04726 | 0.0486778 | | 0.0515 | 5.411E-05 | 0 | 0.0000515 | 0.001 | 0.1 | 94% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.0524 | 0.053972 | | 0.0515 | 0.00269 | 0 | 0.0015862 | 0.0015862 | 1 | 100% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.04328 | 0.0445784 | | 0.0515 | 0 | 0 | 7.416E-05 | 0.001 | 1 | 87% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.04877 | 0.0502331 | | 0.0515 | 0 | 0 | 0.0020394 | 0.0035794 | 1 | 98% | 75 | 125 | 0% | |
| Iron | A | mg/L | 4.426 | 4.55878 | | 5.15 | 0.03101 | 0 | 0.0052839 | 0.0052839 | 5 | 88% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 0.00002805 | 0 | | 0.0515 | 0 | 0 | 5.665E-05 | 0.001 | 0.1 | 0% | 75 | 125 | 0% | S |
| Lead | A | mg/L | 0.04618 | 0.0475654 | | 0.0515 | 0 | 0 | 7.947E-05 | 0.001 | 1 | 92% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 59.06 | 60.8318 | | 51.5 | 9.482 | 0 | 0.0083967 | 0.0083967 | 50 | 100% | 75 | 125 | 0% | |
| Manganese | A | mg/L | 0.05494 | 0.0565882 | | 0.0515 | 0.008162 | 0 | 0.0002203 | 0.001 | 1 | 94% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.05399 | 0.0556097 | | 0.0515 | 0.00559 | 0 | 0.0001816 | 0.001 | 0.1 | 97% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.04955 | 0.0510365 | | 0.0515 | 0 | 0 | 0.0024926 | 0.0024926 | 1 | 99% | 75 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|---------------|------------|------------|------------------|--------|-----------|--------------|-----------|-----------|--------|--------|-----|------|------|---|
| 14987731 | B22010971-001 | ICPMS-6020-W- | PDS1 | | 1/19/2022 6:36:3 | 1.03 | 162992 | 1/17/2022 1: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Potassium | A | mg/L | 46.55 | 47.9465 | | 51.5 | 3.116 | 0 | 0.0269042 | 0.0269042 | 50 | 87% | 75 | 125 | 0% | |
| Selenium | A | mg/L | 0.04651 | 0.0479053 | | 0.0515 | 0 | 0 | 0.0006030 | 0.001 | 1 | 93% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 23.03 | 23.7209 | | 0.206 | 23.35 | 0 | 0.0054808 | 0.0054808 | 0.4 | | 0 | 0 | 0% | A |
| Silver | A | mg/L | 0.01972 | 0.0203116 | | 0.0206 | 0 | 0 | 4.446E-05 | 0.001 | 0.04 | 99% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 94.03 | 96.8509 | | 51.5 | 49.45 | 0 | 0.7550177 | 0.7550177 | 50 | 92% | 75 | 125 | 0% | |
| Strontium | A | mg/L | 0.1668 | 0.171804 | | 0.0515 | 0.1269 | 0 | 0.0001302 | 0.001 | 1 | 87% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.0486 | 0.050058 | | 0.0515 | 0 | 0 | 0.0001147 | 0.001 | 1 | 97% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.05176 | 0.0533128 | | 0.0515 | 0 | 0 | 0.0042745 | 0.0042745 | 1 | 104% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.04411 | 0.0454333 | | 0.0515 | 0 | 0 | 0.001151 | 0.001151 | 0.1 | 88% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.05231 | 0.0538793 | | 0.0515 | 0.003366 | 0 | 0.0001683 | 0.001 | 1 | 98% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.04688 | 0.0482864 | | 0.0515 | 0.0002998 | 0 | 8.702E-05 | 0.0003 | 1 | 93% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.0568 | 0.058504 | | 0.0515 | 0.0104 | 0 | 0.0021717 | 0.0021717 | 1 | 93% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.04786 | 0.0492958 | | 0.0515 | 0.02303 | 0 | 0.0067511 | 0.0067511 | 1 | 51% | 75 | 125 | 0% | S |
| Silica | C | mg/L | 49.265776 | 50.7437493 | | 0 | 0 | 0 | 0.0117246 | 0.0117246 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 49.265776 | 50.7437493 | | 0.0515 | 0 | 0 | 0.0117246 | 0.0117246 | 5 | 98532% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|---------------|------------|---------|------------------|-------|-----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987732 | B22010971-001 | ICPMS-6020-W- | MS4 | | 1/19/2022 6:42:1 | 1 | 162992 | 1/17/2022 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 | 0.5082 | 0.5082 | | 0.5 | 0.03352 | 0 | 0.0031975 | 0.0031975 | 1 | 95% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.09497 | 0.09497 | | 0.1 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 95% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.1006 | 0.1006 | | 0.1 | 0.001501 | 0 | 0.0002677 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.114 | 0.114 | | 0.1 | 0.02173 | 0 | 0.0002408 | 0.001 | 1 | 92% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.04324 | 0.04324 | | 0.05 | 0 | 0 | 0.0001563 | 0.01 | 1 | 86% | 75 | 125 | 0% | |
| Boron | A | mg/L | 0.1366 | 0.1366 | | 0.1 | 0.03606 | 0 | 0.01467 | 0.01467 | 1 | 101% | 75 | 125 | 0% | |
| Cadmium | A | mg/L | 0.04716 | 0.04716 | | 0.05 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 94% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 16.85 | 16.85 | | 5 | 11.99 | 0 | 0.1103481 | 0.1103481 | 150 | 97% | 75 | 125 | 0% | |
| Cerium | A | mg/L | 0.1012 | 0.1012 | | 0.1 | 5.411E-05 | 0 | 0.00005 | 0.001 | 0.1 | 101% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.106 | 0.106 | | 0.1 | 0.00269 | 0 | 0.00154 | 0.00154 | 1 | 103% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.09581 | 0.09581 | | 0.1 | 0 | 0 | 0.000072 | 0.001 | 1 | 96% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.1072 | 0.1072 | | 0.1 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 107% | 75 | 125 | 0% | |
| Iron | A | mg/L | 0.489 | 0.489 | | 0.5 | 0.03101 | 0 | 0.00513 | 0.00513 | 5 | 92% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 0.1005 | 0.1005 | | 0.1 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 100% | 75 | 125 | 0% | |
| Lead | A | mg/L | 0.09976 | 0.09976 | | 0.1 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 100% | 88 | 115 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|-------------------|------------|-----------|------------------|-------|-----------|--------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14987732 | B22010971-001 | ICPMS-6020-W- MS4 | | | 1/19/2022 6:42:1 | 1 | 162992 | 1/17/2022 1: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Magnesium | A | mg/L | 13.83 | 13.83 | | 5 | 9.482 | 0 | 0.0081522 | 0.0081522 | 50 | 87% | 75 | 125 | 0% | |
| Manganese | A | mg/L | 0.5204 | 0.5204 | | 0.5 | 0.008162 | 0 | 0.0002139 | 0.001 | 1 | 102% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.1048 | 0.1048 | | 0.1 | 0.00559 | 0 | 0.0001763 | 0.001 | 0.1 | 99% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.1073 | 0.1073 | | 0.1 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 107% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 7.66 | 7.66 | | 5 | 3.116 | 0 | 0.0261205 | 0.0261205 | 50 | 91% | 75 | 125 | 0% | |
| Selenium | A | mg/L | 0.09983 | 0.09983 | | 0.1 | 0 | 0 | 0.0005855 | 0.001 | 1 | 100% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 23.92 | 23.92 | | 1 | 23.35 | 0 | 0.0053212 | 0.0053212 | 0.4 | | 75 | 125 | 0% | A |
| Silver | A | mg/L | 0.009808 | 0.009808 | | 0.01 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 98% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 49.97 | 49.97 | | 5 | 49.45 | 0 | 0.7330269 | 0.7330269 | 50 | | 75 | 125 | 0% | A |
| Strontium | A | mg/L | 0.2204 | 0.2204 | | 0.1 | 0.1269 | 0 | 0.0001264 | 0.001 | 1 | 93% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.09843 | 0.09843 | | 0.1 | 0 | 0 | 0.0001114 | 0.001 | 1 | 98% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.105 | 0.105 | | 0.1 | 0 | 0 | 0.00415 | 0.00415 | 1 | 105% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.1006 | 0.1006 | | 0.1 | 0 | 0 | 0.0011175 | 0.0011175 | 0.1 | 101% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.09638 | 0.09638 | | 0.1 | 0.003366 | 0 | 0.0001634 | 0.001 | 1 | 93% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.1 | 0.1 | | 0.1 | 0.0002998 | 0 | 8.449E-05 | 0.0003 | 1 | 100% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.1125 | 0.1125 | | 0.1 | 0.0104 | 0 | 0.0021085 | 0.0021085 | 1 | 102% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.1006 | 0.1006 | | 0.1 | 0.02303 | 0 | 0.0065544 | 0.0065544 | 1 | 78% | 75 | 125 | 0% | |
| Silica | C | mg/L | 51.169664 | 51.169664 | | 0 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 51.169664 | 51.169664 | | 2.14 | 0 | 0 | 0.0113831 | 0.0113831 | 5 | 2391% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|--------------------|------------|---------|------------------|-------|-----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987733 | B22010971-001 | ICPMS-6020-W- MSD4 | | | 1/19/2022 6:47:5 | 1 | 162992 | 1/17/2022 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 | 0.5032 | 0.5032 | | 0.5 | 0.03352 | 0.5082 | 0.0031975 | 0.0031975 | 1 | 94% | 75 | 125 | 1% | |
| Antimony | A | mg/L | 0.09441 | 0.09441 | | 0.1 | 0 | 0.09497 | 0.00098 | 0.0021372 | 0.1 | 94% | 75 | 125 | 1% | |
| Arsenic | A | mg/L | 0.1024 | 0.1024 | | 0.1 | 0.001501 | 0.1006 | 0.0002677 | 0.001 | 1 | 101% | 75 | 125 | 2% | |
| Barium | A | mg/L | 0.1095 | 0.1095 | | 0.1 | 0.02173 | 0.114 | 0.0002408 | 0.001 | 1 | 88% | 75 | 125 | 4% | |
| Beryllium | A | mg/L | 0.0428 | 0.0428 | | 0.05 | 0 | 0.04324 | 0.0001563 | 0.01 | 1 | 86% | 75 | 125 | 1% | |
| Boron | A | mg/L | 0.1277 | 0.1277 | | 0.1 | 0.03606 | 0.1366 | 0.01467 | 0.01467 | 1 | 92% | 75 | 125 | 7% | |
| Cadmium | A | mg/L | 0.04575 | 0.04575 | | 0.05 | 0 | 0.04716 | 4.567E-05 | 0.005 | 1 | 91% | 75 | 125 | 3% | |
| Calcium | A | mg/L | 16.64 | 16.64 | | 5 | 11.99 | 16.85 | 0.1103481 | 0.1103481 | 150 | 93% | 75 | 125 | 1% | |
| Cerium | A | mg/L | 0.1016 | 0.1016 | | 0.1 | 5.411E-05 | 0.1012 | 0.00005 | 0.001 | 0.1 | 102% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.1076 | 0.1076 | | 0.1 | 0.00269 | 0.106 | 0.00154 | 0.00154 | 1 | 105% | 75 | 125 | 1% | |
| Cobalt | A | mg/L | 0.09415 | 0.09415 | | 0.1 | 0 | 0.09581 | 0.000072 | 0.001 | 1 | 94% | 75 | 125 | 2% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|-------------------|------------|-----------|------------------|-------|-----------|--------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14987733 | B22010971-001 | ICPMS-6020-W-MSD4 | | | 1/19/2022 6:47:5 | 1 | 162992 | 1/17/2022 1: | 1E+07 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Copper | A | mg/L | 0.1082 | 0.1082 | | 0.1 | 0 | 0.1072 | 0.00198 | 0.0034752 | 1 | 108% | 75 | 125 | 1% | |
| Iron | A | mg/L | 0.4919 | 0.4919 | | 0.5 | 0.03101 | 0.489 | 0.00513 | 0.00513 | 5 | 92% | 75 | 125 | 1% | |
| Lanthanum | A | mg/L | 0.1022 | 0.1022 | | 0.1 | 0 | 0.1005 | 0.000055 | 0.001 | 0.1 | 102% | 75 | 125 | 2% | |
| Lead | A | mg/L | 0.09603 | 0.09603 | | 0.1 | 0 | 0.09976 | 7.716E-05 | 0.001 | 1 | 96% | 88 | 115 | 4% | |
| Magnesium | A | mg/L | 14.37 | 14.37 | | 5 | 9.482 | 13.83 | 0.0081522 | 0.0081522 | 50 | 98% | 75 | 125 | 4% | |
| Manganese | A | mg/L | 0.5155 | 0.5155 | | 0.5 | 0.008162 | 0.5204 | 0.0002139 | 0.001 | 1 | 101% | 75 | 125 | 1% | |
| Molybdenum | A | mg/L | 0.1047 | 0.1047 | | 0.1 | 0.00559 | 0.1048 | 0.0001763 | 0.001 | 0.1 | 99% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.1066 | 0.1066 | | 0.1 | 0 | 0.1073 | 0.0024200 | 0.0024200 | 1 | 107% | 75 | 125 | 1% | |
| Potassium | A | mg/L | 7.498 | 7.498 | | 5 | 3.116 | 7.66 | 0.0261205 | 0.0261205 | 50 | 88% | 75 | 125 | 2% | |
| Selenium | A | mg/L | 0.09929 | 0.09929 | | 0.1 | 0 | 0.09983 | 0.0005855 | 0.001 | 1 | 99% | 75 | 125 | 1% | |
| Silicon | A | mg/L | 24.56 | 24.56 | | 1 | 23.35 | 23.92 | 0.0053212 | 0.0053212 | 0.4 | | 75 | 125 | 3% | A |
| Silver | A | mg/L | 0.009975 | 0.009975 | | 0.01 | 0 | 0.009808 | 4.316E-05 | 0.001 | 0.04 | 100% | 75 | 125 | 2% | |
| Sodium | A | mg/L | 51.73 | 51.73 | | 5 | 49.45 | 49.97 | 0.7330269 | 0.7330269 | 50 | | 75 | 125 | 3% | A |
| Strontium | A | mg/L | 0.2223 | 0.2223 | | 0.1 | 0.1269 | 0.2204 | 0.0001264 | 0.001 | 1 | 95% | 75 | 125 | 1% | |
| Thallium | A | mg/L | 0.1028 | 0.1028 | | 0.1 | 0 | 0.09843 | 0.0001114 | 0.001 | 1 | 103% | 75 | 125 | 4% | |
| Thorium | A | mg/L | 0.1095 | 0.1095 | | 0.1 | 0 | 0.105 | 0.00415 | 0.00415 | 1 | 109% | 75 | 125 | 4% | |
| Tin | A | mg/L | 0.1001 | 0.1001 | | 0.1 | 0 | 0.1006 | 0.0011175 | 0.0011175 | 0.1 | 100% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.09454 | 0.09454 | | 0.1 | 0.003366 | 0.09638 | 0.0001634 | 0.001 | 1 | 91% | 75 | 125 | 2% | |
| Uranium | A | mg/L | 0.09582 | 0.09582 | | 0.1 | 0.0002998 | 0.1 | 8.449E-05 | 0.0003 | 1 | 96% | 75 | 125 | 4% | |
| Vanadium | A | mg/L | 0.1113 | 0.1113 | | 0.1 | 0.0104 | 0.1125 | 0.0021085 | 0.0021085 | 1 | 101% | 75 | 125 | 1% | |
| Zinc | A | mg/L | 0.1022 | 0.1022 | | 0.1 | 0.02303 | 0.1006 | 0.0065544 | 0.0065544 | 1 | 79% | 75 | 125 | 2% | |
| Silica | C | mg/L | 52.538752 | 52.538752 | | 0 | 0 | 51.169664 | 0.0113831 | 0.0113831 | 5 | 0% | 0 | 0 | 3% | |
| Silicon as SiO2 | C | mg/L | 52.538752 | 52.538752 | | 2.14 | 0 | 51.169664 | 0.0113831 | 0.0113831 | 5 | 2455% | 75 | 125 | 3% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14987734 | Rinse | ICPMS-6020-W-SAMP | | | 1/19/2022 6:54:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00001203 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00001473 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00003987 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 7.042E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 3.653E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -1.179E-05 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 6.979E-06 | 0 | | 0 | 0 | 0 | 4.756E-05 | 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 | | | | | |
|------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987734 | Rinse | ICPMS-6020-W- | SAMP | | 1/19/2022 6:54:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Copper | A | mg/L | 0.00001029 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001118 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 1.164E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00002029 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -2.491E-06 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.00001326 | 0.00001326 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 0.00002151 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0003563 | 0.0003563 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Titanium | A | mg/L | 0.00001586 | 0 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001339 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Sodium | B | mg/L | 0.1688 | 0.1688 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00005949 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | -5.902E-05 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | 0.00005399 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14987735 | B22010972-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 6:59:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 5.386E-08 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.0004752 | 0.0004752 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.006174 | 0.006174 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 4.268E-07 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 2.545E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Chromium | A | mg/L | 0.00195 | 0.00195 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00002238 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Copper | A | mg/L | 0.0006316 | 0.0006316 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 3.547E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Mercury | A | mg/L | -4.537E-07 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0007275 | 0.0007275 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.0002213 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Silver | A | mg/L | -6.599E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.1201 | 0.1201 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0002706 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.001521 | 0.001521 | | 0 | 0 | 0 | 0.0002974 | 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 | | | | | |
|----------|---------------|---------------|------------|----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14987735 | B22010972-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 6:59:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Uranium | A | mg/L | 0.000032 | 0.000032 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Sodium | B | mg/L | 37.15 | 37.15 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | -4.427E-06 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.009589 | 0.009589 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | UD |
| Zinc | B | mg/L | 0.009863 | 0.009863 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987736 | B22010972-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 7:05:4 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0005148 | 0.0005148 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.005705 | 0.005705 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 7.582E-06 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.00003357 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.0000649 | 0 | | 0 | 0 | 0 | 0.000072 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 0.00001516 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00002195 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.0008469 | 0.0008469 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Molybdenum | A | mg/L | 0.001212 | 0.001212 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001091 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.0005388 | 0.0005388 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 0.1301 | 0.1301 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.000112 | 0.000112 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Titanium | A | mg/L | 0.00799 | 0.00799 | | 0 | 0 | 0 | 0.0001634 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00003595 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | B | mg/L | 0.00001793 | 0 | | 0 | 0 | 0 | 0.00098 | 0.0021372 | 0.1 | 0% | 0 | 0 | 0% | L |
| Chromium | B | mg/L | 0.002293 | 0.002293 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | D |
| Copper | B | mg/L | 0.0002056 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Nickel | B | mg/L | 0.0004531 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 37.71 | 37.71 | | 0 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.0001139 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.009729 | 0.009729 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 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 | | | | | |
|------------|---------------|--------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14987737 | B22010973-001 | ICPMS-6020-W- SAMP | | | 1/19/2022 7:11:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00003666 | 0 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.0001602 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Barium | A | mg/L | 0.002402 | 0.002402 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 8.545E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 2.888E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Chromium | A | mg/L | 0.00006629 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cobalt | A | mg/L | 0.00003216 | 0 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Copper | A | mg/L | 0.0002244 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.00001314 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Mercury | A | mg/L | 1.065E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0169 | 0.0169 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.0002432 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Silver | A | mg/L | -7.323E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.09147 | 0.09147 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.000129 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.0005931 | 0.0005931 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Uranium | A | mg/L | 6.999E-06 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Sodium | B | mg/L | 41.82 | 41.82 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | -1.393E-05 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | -9.172E-05 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | UL |
| Zinc | B | mg/L | 0.003723 | 0.003723 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|-----------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987738 | CCV | ICPMS-6020-W- CCV | | | 1/19/2022 7:17:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04441 | 0.04441 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 89% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.04537 | 0.04537 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 91% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05055 | 0.05055 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.0472 | 0.0472 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04339 | 0.04339 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 87% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.04388 | 0.04388 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 88% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.0492 | 0.0492 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 11.09 | 11.09 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 89% | 90 | 110 | 0% | S |
| Cerium | A | mg/L | 0.04726 | 0.04726 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 95% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|-------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987738 | CCV | ICPMS-6020-W- CCV | | | 1/19/2022 7:17:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Chromium | A | mg/L | 0.0495 | 0.0495 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04545 | 0.04545 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 91% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05161 | 0.05161 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.124 | 1.124 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 86% | 90 | 110 | 0% | S |
| Lanthanum | A | mg/L | 0.04731 | 0.04731 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 95% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04833 | 0.04833 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.3358 | 0.3358 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 54% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 11.25 | 11.25 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 90% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.04475 | 0.04475 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 89% | 90 | 110 | 0% | S |
| Mercury | A | mg/L | 0.0009825 | 0.0009825 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 98% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.0507 | 0.0507 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 101% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05159 | 0.05159 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 10.46 | 10.46 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 84% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.05519 | 0.05519 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 110% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.1827 | 0.1827 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 91% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02078 | 0.02078 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 104% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 11.35 | 11.35 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 91% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05146 | 0.05146 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05134 | 0.05134 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05302 | 0.05302 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 106% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04571 | 0.04571 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 91% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04504 | 0.04504 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 90% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04829 | 0.04829 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 97% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04773 | 0.04773 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 95% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05092 | 0.05092 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 102% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.124 | 1.124 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|----------|--------|-------------------|------------|------------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14987739 | CCB | ICPMS-6020-W- CCB | | | 1/19/2022 7:22:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 6.281E-06 | 6.281E-06 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00003508 | 0.00003508 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | -2.457E-06 | -2.457E-06 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | 6.179E-06 | 6.179E-06 | | 0 | 0 | 0 | 0.0001321 | 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 | | | | | |
|---------------|--------|-------------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987739 | CCB | ICPMS-6020-W- CCB | | | 1/19/2022 7:22:4 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Beryllium | A | mg/L | 8.688E-06 | 8.688E-06 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | -8.952E-05 | -8.952E-05 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | -7.987E-07 | -7.987E-07 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | -1.213E-05 | -1.213E-05 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | | | 0% | |
| Cerium | A | mg/L | 1.066E-06 | 1.066E-06 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00001546 | 0.00001546 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | 1.537E-06 | 1.537E-06 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | -6.68E-06 | -6.68E-06 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | 0.00001212 | 0.00001212 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | 0% | |
| Lanthanum | A | mg/L | 2.185E-07 | 2.185E-07 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 1.088E-06 | 1.088E-06 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | 0% | |
| Lithium | A | mg/L | -0.001319 | -0.001319 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | 0% | |
| Magnesium | A | mg/L | -6.097E-05 | -6.097E-05 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | | | 0% | |
| Manganese | A | mg/L | 3.659E-06 | 3.659E-06 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | 0% | |
| Mercury | A | mg/L | 2.438E-06 | 2.438E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00001647 | 0.00001647 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Nickel | A | mg/L | -1.484E-05 | -1.484E-05 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | 0.0001462 | 0.0001462 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | | | 0% | |
| Selenium | A | mg/L | 0.00000508 | 0.00000508 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | -0.07078 | -0.07078 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 2.414E-06 | 2.414E-06 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | 0.003892 | 0.003892 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | | | 0% | |
| Strontium | A | mg/L | 2.094E-06 | 2.094E-06 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00008098 | 0.00008098 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00003931 | 0.00003931 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | -6.128E-06 | -6.128E-06 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 1.345E-06 | 1.345E-06 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 3.353E-06 | 3.353E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | -2.434E-05 | -2.434E-05 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | -3.251E-05 | -3.251E-05 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | 0.00001212 | 0.00001212 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|---------------|------------------|------------|----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987740 | B22010973-001 | ICPMS-6020-W- SD | | | 1/19/2022 7:28:3 | 5 | R373351 | | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001237 | 0.006185 | | 0 | 0 | 0.001899 | 0.0032741 | 0.0032741 | 1 | 0% | | | | N |
| Antimony | A | mg/L | 8.824E-06 | 0 | | 0 | 0 | 0 | 0.0014934 | 0.0014934 | 0.1 | 0% | | | | |
| Arsenic | A | mg/L | 0.00003076 | 0 | | 0 | 0 | 0 | 0.0009071 | 0.001 | 1 | 0% | | | | |
| Barium | A | mg/L | 0.000506 | 0.00253 | | 0 | 0 | 0.002402 | 0.0006604 | 0.001 | 1 | 0% | | | | N |
| Beryllium | A | mg/L | 1.027E-06 | 0 | | 0 | 0 | 0 | 0.0003733 | 0.001 | 1 | 0% | | | | |
| Boron | A | mg/L | 0.0119 | 0.0595 | | 0 | 0 | 0.07135 | 0.0150159 | 0.0150159 | 1 | 0% | | | | N |
| Cadmium | A | mg/L | 2.035E-06 | 0 | | 0 | 0 | 0 | 0.000257 | 0.001 | 1 | 0% | | | | |
| Calcium | A | mg/L | 2.377 | 11.885 | | 0 | 0 | 13.36 | 0.3748981 | 0.3748981 | 50 | 0% | | | 12% | R |
| Cerium | A | mg/L | 2.079E-06 | 0 | | 0 | 0 | 0 | 0.0000731 | 0.001 | 0.1 | 0% | | | | |
| Chromium | A | mg/L | 0.00003123 | 0 | | 0 | 0 | 0 | 0.0027407 | 0.0027407 | 1 | 0% | | | | |
| Cobalt | A | mg/L | 9.487E-06 | 0 | | 0 | 0 | 0 | 0.0002378 | 0.001 | 1 | 0% | | | | |
| Copper | A | mg/L | 0.00007861 | 0 | | 0 | 0 | 0 | 0.001914 | 0.001914 | 1 | 0% | | | | |
| Iron | A | mg/L | 0.004006 | 0 | | 0 | 0 | 0.02104 | 0.0231453 | 0.0231453 | 5 | 0% | | | | |
| Lanthanum | A | mg/L | 1.883E-06 | 0 | | 0 | 0 | 0 | 8.415E-05 | 0.001 | 0.1 | 0% | | | | |
| Lead | A | mg/L | 9.711E-06 | 0 | | 0 | 0 | 0 | 0.0003132 | 0.001 | 1 | 0% | | | | |
| Lithium | A | mg/L | -0.001643 | 0 | | 0 | 0 | 0 | 0.0260526 | 0.0260526 | 2.5 | 0% | | | | |
| Magnesium | A | mg/L | 2.435 | 12.175 | | 0 | 0 | 12.68 | 0.0594967 | 0.0594967 | 50 | 0% | | | 4% | |
| Manganese | A | mg/L | 0.004683 | 0.023415 | | 0 | 0 | 0.02525 | 0.0007221 | 0.001 | 1 | 0% | | | 8% | |
| Mercury | A | mg/L | 1.332E-06 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 0.02 | 0% | | | | |
| Molybdenum | A | mg/L | 0.003363 | 0.016815 | | 0 | 0 | 0.0169 | 0.0004169 | 0.001 | 0.1 | 0% | | | 1% | |
| Nickel | A | mg/L | 0.00004001 | 0 | | 0 | 0 | 0 | 0.0012656 | 0.0012656 | 1 | 0% | | | | |
| Potassium | A | mg/L | 0.6455 | 3.2275 | | 0 | 0 | 3.441 | 1.0369948 | 1.0369948 | 50 | 0% | | | | N |
| Selenium | A | mg/L | 3.048E-06 | 0 | | 0 | 0 | 0 | 0.0007077 | 0.001 | 1 | 0% | | | | |
| Silicon | A | mg/L | 1.87 | 9.35 | | 0 | 0 | 9.901 | 0.0730871 | 0.1 | 0.4 | 0% | | | 6% | |
| Silver | A | mg/L | -7.154E-05 | 0 | | 0 | 0 | 0 | 5.615E-05 | 0.001 | 0.04 | 0% | | | | |
| Sodium | A | mg/L | 8.047 | 40.235 | | 0 | 0 | 41.82 | 0.4046363 | 0.4046363 | 50 | 0% | | | 4% | |
| Strontium | A | mg/L | 0.01705 | 0.08525 | | 0 | 0 | 0.09147 | 0.0009125 | 0.001 | 1 | 0% | | | 7% | |
| Thallium | A | mg/L | 0.00006174 | 0 | | 0 | 0 | 0 | 0.0014956 | 0.0014956 | 1 | 0% | | | | |
| Thorium | A | mg/L | 2.337E-06 | 0 | | 0 | 0 | 0 | 0.0052364 | 0.0052364 | 1 | 0% | | | | |
| Tin | A | mg/L | -0.002389 | 0 | | 0 | 0 | 0 | 0.011194 | 0.011194 | 0.1 | 0% | | | | |
| Titanium | A | mg/L | 0.0001944 | 0 | | 0 | 0 | 0.0005931 | 0.0014871 | 0.0014871 | 1 | 0% | | | | |
| Uranium | A | mg/L | 0.00000178 | 0 | | 0 | 0 | 0 | 0.000157 | 0.0003 | 1 | 0% | | | | |
| Vanadium | A | mg/L | -3.968E-05 | 0 | | 0 | 0 | 0 | 0.0217338 | 0.0217338 | 1 | 0% | | | | |
| Zinc | A | mg/L | 0.001765 | 0.008825 | | 0 | 0 | 0.003723 | 0.0057989 | 0.0057989 | 1 | 0% | | | | N |
| Iron, Ferrous | C | mg/L | 0.004006 | 0 | | 0 | 0 | 0 | 0.0231453 | 0.0231453 | 5 | 0% | | | | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|------------------|------------|------------|------------------|-------|-----------|-----------|-----------|-----------|--------|-------|-----|------|------|----|
| 14987741 | B22010973-001 | ICPMS-6020-W- MS | | | 1/19/2022 7:34:1 | 1.03 | R373351 | | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04654 | 0.0479362 | | 0.05 | 0.001899 | 0 | 0.0006745 | 0.001 | 1 | 92% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.04734 | 0.0487602 | | 0.05 | 0 | 0 | 0.0003076 | 0.001 | 0.1 | 98% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.05232 | 0.0538896 | | 0.05 | 0 | 0 | 0.0001869 | 0.001 | 1 | 108% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.04955 | 0.0510365 | | 0.05 | 0.002402 | 0 | 0.0001360 | 0.001 | 1 | 97% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.04163 | 0.0428789 | | 0.05 | 0 | 0 | 7.689E-05 | 0.001 | 1 | 86% | 75 | 125 | 0% | |
| Boron | A | mg/L | 0.0982 | 0.101146 | | 0.05 | 0.07135 | 0 | 0.0030933 | 0.0030933 | 1 | 60% | 75 | 125 | 0% | S |
| Cadmium | A | mg/L | 0.04677 | 0.0481731 | | 0.05 | 0 | 0 | 5.293E-05 | 0.001 | 1 | 96% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 57.01 | 58.7203 | | 50 | 13.36 | 0 | 0.0772290 | 0.0772290 | 50 | 91% | 75 | 125 | 0% | E |
| Cerium | A | mg/L | 0.04656 | 0.0479568 | | 0.05 | 0 | 0 | 1.506E-05 | 0.001 | 0.1 | 96% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.04885 | 0.0503155 | | 0.05 | 0 | 0 | 0.0005646 | 0.001 | 1 | 101% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.04431 | 0.0456393 | | 0.05 | 0 | 0 | 4.899E-05 | 0.001 | 1 | 91% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.04922 | 0.0506966 | | 0.05 | 0 | 0 | 0.0003943 | 0.001 | 1 | 101% | 75 | 125 | 0% | |
| Iron | A | mg/L | 4.491 | 4.62573 | | 5.05 | 0.02104 | 0 | 0.0047679 | 0.0047679 | 5 | 91% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 3.924E-06 | 0 | | 0.05 | 0 | 0 | 1.733E-05 | 0.001 | 0.1 | 0% | 75 | 125 | 0% | S |
| Lead | A | mg/L | 0.04621 | 0.0475963 | | 0.05 | 0 | 0 | 6.452E-05 | 0.001 | 1 | 95% | 88 | 115 | 0% | |
| Lithium | A | mg/L | 1.55 | 1.5965 | | 0.05 | 0 | 0 | 0.0053668 | 0.0053668 | 2.5 | 3193% | 75 | 125 | 0% | S |
| Magnesium | A | mg/L | 59.85 | 61.6455 | | 50 | 12.68 | 0 | 0.0122563 | 0.0122563 | 50 | 98% | 75 | 125 | 0% | E |
| Manganese | A | mg/L | 0.06645 | 0.0684435 | | 0.05 | 0.02525 | 0 | 0.0001487 | 0.001 | 1 | 86% | 75 | 125 | 0% | |
| Mercury | A | mg/L | 0.0009295 | 0.00095739 | | 0.001 | 0 | 0 | 6.798E-05 | 0.001 | 0.02 | 96% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.06495 | 0.0668985 | | 0.05 | 0.0169 | 0 | 8.588E-05 | 0.001 | 0.1 | 100% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.05022 | 0.0517266 | | 0.05 | 0 | 0 | 0.0002607 | 0.001 | 1 | 103% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 47.91 | 49.3473 | | 50 | 3.441 | 0 | 0.2136209 | 0.2136209 | 50 | 92% | 75 | 125 | 0% | |
| Selenium | A | mg/L | 0.05413 | 0.0557539 | | 0.05 | 0 | 0 | 0.0001458 | 0.001 | 1 | 112% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 9.718 | 10.00954 | | 0.2 | 9.901 | 0 | 0.0150559 | 0.1 | 0.4 | | 75 | 125 | 0% | AE |
| Silver | A | mg/L | 0.02013 | 0.0207339 | | 0.02 | 0 | 0 | 1.157E-05 | 0.001 | 0.04 | 104% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 89.69 | 92.3807 | | 50 | 41.82 | 0 | 0.0833551 | 0.0833551 | 50 | 101% | 75 | 125 | 0% | E |
| Strontium | A | mg/L | 0.1309 | 0.134827 | | 0.05 | 0.09147 | 0 | 0.000188 | 0.001 | 1 | 87% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.04678 | 0.0481834 | | 0.05 | 0 | 0 | 0.0003081 | 0.001 | 1 | 96% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.05148 | 0.0530244 | | 0.05 | 0 | 0 | 0.0010787 | 0.0010787 | 1 | 106% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.04533 | 0.0466899 | | 0.05 | 0 | 0 | 0.002306 | 0.002306 | 0.1 | 93% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.04958 | 0.0510674 | | 0.05 | 0.0005931 | 0 | 0.0003063 | 0.001 | 1 | 101% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.04722 | 0.0486366 | | 0.05 | 0 | 0 | 3.233E-05 | 0.0003 | 1 | 97% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.04876 | 0.0502228 | | 0.05 | 0 | 0 | 0.0044772 | 0.0044772 | 1 | 100% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.0527 | 0.054281 | | 0.05 | 0.003723 | 0 | 0.0011946 | 0.0011946 | 1 | 101% | 75 | 125 | 0% | |
| Iron, Ferrous | C | mg/L | 4.491 | 4.62573 | | 0 | 0 | 0 | 0.0047679 | 0.0047679 | 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 | | | | | |
|---------------|---------------|-------------------|------------|------------|------------------|-------|-----------|-----------|-----------|-----------|--------|-------|-----|------|------|----|
| 14987742 | B22010973-001 | ICPMS-6020-W- MSD | | | 1/19/2022 7:39:5 | 1.03 | R373351 | | 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 | 0.0471 | 0.048513 | | 0.05 | 0.001899 | 0.0479362 | 0.0006745 | 0.001 | 1 | 93% | 75 | 125 | 1% | |
| Antimony | A | mg/L | 0.04524 | 0.0465972 | | 0.05 | 0 | 0.0487602 | 0.0003076 | 0.001 | 0.1 | 93% | 75 | 125 | 5% | |
| Arsenic | A | mg/L | 0.05064 | 0.0521592 | | 0.05 | 0 | 0.0538896 | 0.0001869 | 0.001 | 1 | 104% | 75 | 125 | 3% | |
| Barium | A | mg/L | 0.04744 | 0.0488632 | | 0.05 | 0.002402 | 0.0510365 | 0.0001360 | 0.001 | 1 | 93% | 75 | 125 | 4% | |
| Beryllium | A | mg/L | 0.04351 | 0.0448153 | | 0.05 | 0 | 0.0428789 | 7.689E-05 | 0.001 | 1 | 90% | 75 | 125 | 4% | |
| Boron | A | mg/L | 0.1003 | 0.103309 | | 0.05 | 0.07135 | 0.101146 | 0.0030933 | 0.0030933 | 1 | 64% | 75 | 125 | 2% | S |
| Cadmium | A | mg/L | 0.04675 | 0.0481525 | | 0.05 | 0 | 0.0481731 | 5.293E-05 | 0.001 | 1 | 96% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 62.63 | 64.5089 | | 50 | 13.36 | 58.7203 | 0.0772290 | 0.0772290 | 50 | 102% | 75 | 125 | 9% | E |
| Cerium | A | mg/L | 0.04645 | 0.0478435 | | 0.05 | 0 | 0.0479568 | 1.506E-05 | 0.001 | 0.1 | 96% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.04751 | 0.0489353 | | 0.05 | 0 | 0.0503155 | 0.0005646 | 0.001 | 1 | 98% | 75 | 125 | 3% | |
| Cobalt | A | mg/L | 0.04466 | 0.0459998 | | 0.05 | 0 | 0.0456393 | 4.899E-05 | 0.001 | 1 | 92% | 75 | 125 | 1% | |
| Copper | A | mg/L | 0.04844 | 0.0498932 | | 0.05 | 0 | 0.0506966 | 0.0003943 | 0.001 | 1 | 100% | 75 | 125 | 2% | |
| Iron | A | mg/L | 4.697 | 4.83791 | | 5.05 | 0.02104 | 4.62573 | 0.0047679 | 0.0047679 | 5 | 95% | 75 | 125 | 4% | |
| Lanthanum | A | mg/L | 2.724E-06 | 0 | | 0.05 | 0 | 0 | 1.733E-05 | 0.001 | 0.1 | 0% | 75 | 125 | | S |
| Lead | A | mg/L | 0.04472 | 0.0460616 | | 0.05 | 0 | 0.0475963 | 6.452E-05 | 0.001 | 1 | 92% | 88 | 115 | 3% | |
| Lithium | A | mg/L | 1.911 | 1.96833 | | 0.05 | 0 | 1.5965 | 0.0053668 | 0.0053668 | 2.5 | 3937% | 75 | 125 | 21% | SR |
| Magnesium | A | mg/L | 60.05 | 61.8515 | | 50 | 12.68 | 61.6455 | 0.0122563 | 0.0122563 | 50 | 98% | 75 | 125 | 0% | E |
| Manganese | A | mg/L | 0.06918 | 0.0712554 | | 0.05 | 0.02525 | 0.0684435 | 0.0001487 | 0.001 | 1 | 92% | 75 | 125 | 4% | |
| Mercury | A | mg/L | 0.0009323 | 0.00096027 | | 0.001 | 0 | 0.0009574 | 6.798E-05 | 0.001 | 0.02 | 96% | 75 | 125 | | |
| Molybdenum | A | mg/L | 0.06309 | 0.0649827 | | 0.05 | 0.0169 | 0.0668985 | 8.588E-05 | 0.001 | 0.1 | 96% | 75 | 125 | 3% | |
| Nickel | A | mg/L | 0.04923 | 0.0507069 | | 0.05 | 0 | 0.0517266 | 0.0002607 | 0.001 | 1 | 101% | 75 | 125 | 2% | |
| Potassium | A | mg/L | 49.57 | 51.0571 | | 50 | 3.441 | 49.3473 | 0.2136209 | 0.2136209 | 50 | 95% | 75 | 125 | 3% | |
| Selenium | A | mg/L | 0.05212 | 0.0536836 | | 0.05 | 0 | 0.0557539 | 0.0001458 | 0.001 | 1 | 107% | 75 | 125 | 4% | |
| Silicon | A | mg/L | 9.629 | 9.91787 | | 0.2 | 9.901 | 10.00954 | 0.0150559 | 0.1 | 0.4 | | 75 | 125 | 1% | AE |
| Silver | A | mg/L | 0.01846 | 0.0190138 | | 0.02 | 0 | 0.0207339 | 1.157E-05 | 0.001 | 0.04 | 95% | 75 | 125 | 9% | |
| Sodium | A | mg/L | 88.79 | 91.4537 | | 50 | 41.82 | 92.3807 | 0.0833551 | 0.0833551 | 50 | 99% | 75 | 125 | 1% | E |
| Strontium | A | mg/L | 0.1316 | 0.135548 | | 0.05 | 0.09147 | 0.134827 | 0.000188 | 0.001 | 1 | 88% | 75 | 125 | 1% | |
| Thallium | A | mg/L | 0.04548 | 0.0468444 | | 0.05 | 0 | 0.0481834 | 0.0003081 | 0.001 | 1 | 94% | 75 | 125 | 3% | |
| Thorium | A | mg/L | 0.04986 | 0.0513558 | | 0.05 | 0 | 0.0530244 | 0.0010787 | 0.0010787 | 1 | 103% | 75 | 125 | 3% | |
| Tin | A | mg/L | 0.04472 | 0.0460616 | | 0.05 | 0 | 0.0466899 | 0.002306 | 0.002306 | 0.1 | 92% | 75 | 125 | 1% | |
| Titanium | A | mg/L | 0.0505 | 0.052015 | | 0.05 | 0.0005931 | 0.0510674 | 0.0003063 | 0.001 | 1 | 103% | 75 | 125 | 2% | |
| Uranium | A | mg/L | 0.04561 | 0.0469783 | | 0.05 | 0 | 0.0486366 | 3.233E-05 | 0.0003 | 1 | 94% | 75 | 125 | 3% | |
| Vanadium | A | mg/L | 0.04773 | 0.0491619 | | 0.05 | 0 | 0.0502228 | 0.0044772 | 0.0044772 | 1 | 98% | 75 | 125 | 2% | |
| Zinc | A | mg/L | 0.04923 | 0.0507069 | | 0.05 | 0.003723 | 0.054281 | 0.0011946 | 0.0011946 | 1 | 94% | 75 | 125 | 7% | |
| Iron, Ferrous | C | mg/L | 4.697 | 4.83791 | | 0 | 0 | 4.62573 | 0.0047679 | 0.0047679 | 5 | 0% | 0 | 0 | 4% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987743 | Rinse | ICPMS-6020-W- | SAMP | | 1/19/2022 7:45:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.00001338 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00004641 | 0 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 9.118E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 2.862E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -3.329E-06 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.00001497 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001366 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 5.313E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00003944 | 0 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.00001078 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 3.692E-06 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.00001891 | 0 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0002581 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001009 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Sodium | B | mg/L | 0.1877 | 0.1877 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00004663 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | -3.935E-05 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | B | mg/L | 0.00004373 | 0 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|--------------|-----------|--------|--------|------|-----|------|------|---|
| 14987744 | B22010973-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 7:51:2 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0001808 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.002224 | 0.002224 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.0000164 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.00001213 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 2.326E-06 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.0005464 | 0.0005464 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.03634 | 0.03634 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.01697 | 0.01697 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001054 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -6.115E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.08926 | 0.08926 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0001205 | 0.0001205 | | 0 | 0 | 0 | 0.0001114 | 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 | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987744 | B22010973-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 7:51:2 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Uranium | A | mg/L | 8.269E-06 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Chromium | B | mg/L | 0.0003211 | 0 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | L |
| Copper | B | mg/L | 0.000245 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Nickel | B | mg/L | 0.0003549 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 44.16 | 44.16 | | 0 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.0001256 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.00009366 | 0 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987745 | B22010974-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 7:57:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0001835 | 0.0001835 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.004237 | 0.004237 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 4.469E-07 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 1.041E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Chromium | A | mg/L | 0.002346 | 0.002346 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0009274 | 0.0009274 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.000013 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Mercury | A | mg/L | 3.203E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0001568 | 0.0001568 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.0004575 | 0.0004575 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -7.221E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.06815 | 0.06815 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0001626 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | A | mg/L | 0.00002085 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Sodium | B | mg/L | 33.07 | 33.07 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | -0.0000148 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01638 | 0.01638 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.01009 | 0.01009 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987746 | B22010974-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:02:5 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0002383 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.005203 | 0.005203 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00001661 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.00002199 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 0.00001129 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.000045 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.0005501 | 0.0005501 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Molybdenum | A | mg/L | 0.0002208 | 0.0002208 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.0002097 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -5.752E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.07434 | 0.07434 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00004377 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00002291 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Chromium | B | mg/L | 0.002658 | 0.002658 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | D |
| Copper | B | mg/L | 0.001114 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Nickel | B | mg/L | 0.000542 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 36.3 | 36.3 | | 0 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.0000555 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.01634 | 0.01634 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14987747 | B22010975-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:08:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0001893 | 0.0001893 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.006483 | 0.006483 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 3.327E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 1.558E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Chromium | A | mg/L | 0.002314 | 0.002314 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.003321 | 0.003321 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.0001017 | 0.0001017 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 3.218E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0003374 | 0.0003374 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.0005084 | 0.0005084 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -6.808E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 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 | | | | | |
|-----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987747 | B22010975-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:08:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Strontium | A | mg/L | 0.08035 | 0.08035 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00009329 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | A | mg/L | 0.00001534 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Sodium | B | mg/L | 37.12 | 37.12 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | -1.848E-05 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01616 | 0.01616 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.06036 | 0.06036 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987748 | B22010975-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:14:1 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0001211 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.007012 | 0.007012 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 9.902E-06 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.00002909 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 0.0000135 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.0002573 | 0.0002573 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.001276 | 0.001276 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0004291 | 0.0004291 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.0002123 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.0000355 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.08663 | 0.08663 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00002491 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001662 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Chromium | B | mg/L | 0.002853 | 0.002853 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | D |
| Copper | B | mg/L | 0.001833 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Nickel | B | mg/L | 0.0006995 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 39.84 | 39.84 | | 0 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00003938 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.01683 | 0.01683 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14987749 | B22010976-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:20:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0001833 | 0.0001833 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.00235 | 0.00235 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 2.642E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 2.643E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Chromium | A | mg/L | 9.257E-07 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Copper | A | mg/L | 0.0001231 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 6.843E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Mercury | A | mg/L | 2.055E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.006435 | 0.006435 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.0001794 | 0 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Silver | A | mg/L | -7.393E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.1518 | 0.1518 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00005763 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | A | mg/L | 5.533E-06 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Sodium | B | mg/L | 39.61 | 39.61 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | -1.811E-05 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | -4.646E-05 | 0 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | UL |
| Zinc | B | mg/L | 0.007801 | 0.007801 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|----------|------------------|-------|----------|--------------|-----------|--------|--------|------|-----|------|------|---|
| 14987750 | B22010976-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:25:4 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0001751 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.002256 | 0.002256 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00001219 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.00000386 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 1.847E-06 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00006073 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.382 | 0.382 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.007846 | 0.007846 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00003347 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -6.729E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.1675 | 0.1675 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 8.642E-06 | 0 | | 0 | 0 | 0 | 0.0001114 | 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 | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987750 | B22010976-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:25:4 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Uranium | A | mg/L | 5.908E-06 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Chromium | B | mg/L | 0.0001263 | 0 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | L |
| Copper | B | mg/L | 0.0003139 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Nickel | B | mg/L | 0.0002419 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 40.9 | 40.9 | | 0 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.0000234 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.0002822 | 0 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 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 | | | | | |
|------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987751 | CCV | ICPMS-6020-W- | CCV | | 1/19/2022 8:31:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0426 | 0.0426 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 85% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.04351 | 0.04351 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 87% | 90 | 110 | 0% | S |
| Arsenic | A | mg/L | 0.05167 | 0.05167 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04601 | 0.04601 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 92% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04097 | 0.04097 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 82% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.04096 | 0.04096 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 82% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.04933 | 0.04933 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 11.24 | 11.24 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 90% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.04809 | 0.04809 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 96% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04988 | 0.04988 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04323 | 0.04323 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 86% | 90 | 110 | 0% | S |
| Copper | A | mg/L | 0.05222 | 0.05222 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.146 | 1.146 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 88% | 90 | 110 | 0% | S |
| Lanthanum | A | mg/L | 0.04778 | 0.04778 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 96% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04649 | 0.04649 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 93% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.3167 | 0.3167 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 51% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 11.08 | 11.08 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 89% | 90 | 110 | 0% | S |
| Manganese | A | mg/L | 0.04338 | 0.04338 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 87% | 90 | 110 | 0% | S |
| Mercury | A | mg/L | 0.0009135 | 0.0009135 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 91% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.04959 | 0.04959 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 99% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05091 | 0.05091 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 10.42 | 10.42 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 83% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.05314 | 0.05314 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 106% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987751 | CCV | ICPMS-6020-W- CCV | | | 1/19/2022 8:31:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silicon | A | mg/L | 0.1847 | 0.1847 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 92% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02031 | 0.02031 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 102% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 11.64 | 11.64 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 93% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.0509 | 0.0509 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05176 | 0.05176 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05314 | 0.05314 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 106% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04355 | 0.04355 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 87% | 90 | 110 | 0% | S |
| Titanium | A | mg/L | 0.04187 | 0.04187 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 84% | 90 | 110 | 0% | S |
| Uranium | A | mg/L | 0.04621 | 0.04621 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 92% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04936 | 0.04936 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.04999 | 0.04999 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 100% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.146 | 1.146 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|-----------|--------|-------------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987752 | CCB | ICPMS-6020-W- CCB | | | 1/19/2022 8:37:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 8.433E-06 | 8.433E-06 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00003581 | 0.00003581 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | -2.095E-08 | -2.095E-08 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | 0.00000518 | 0.00000518 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | 3.047E-06 | 3.047E-06 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | -0.0002623 | -0.0002623 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00000191 | 0.00000191 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | 0.001245 | 0.001245 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | | | 0% | |
| Cerium | A | mg/L | 2.702E-06 | 2.702E-06 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -0.0000118 | -0.0000118 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | 8.971E-07 | 8.971E-07 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | 0.0001656 | 0.0001656 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | 0.00009195 | 0.00009195 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | 0% | |
| Lanthanum | A | mg/L | 1.291E-06 | 1.291E-06 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 1.616E-06 | 1.616E-06 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | 0% | |
| Lithium | A | mg/L | -0.001122 | -0.001122 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | 0% | |
| Magnesium | A | mg/L | 0.001016 | 0.001016 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | | | 0% | |
| Manganese | A | mg/L | 3.493E-06 | 3.493E-06 | | 0 | 0 | 0 | 0.0001444 | 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 | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987752 | CCB | ICPMS-6020-W- | CCB | | 1/19/2022 8:37:1 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Mercury | A | mg/L | 2.706E-06 | 2.706E-06 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.0000154 | 0.0000154 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | | | 0% | |
| Nickel | A | mg/L | -1.779E-05 | -1.779E-05 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | -0.004509 | -0.004509 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | | | 0% | |
| Selenium | A | mg/L | 0.0000396 | 0.0000396 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | -0.06996 | -0.06996 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 5.028E-06 | 5.028E-06 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | 0.008883 | 0.008883 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | | | 0% | |
| Strontium | A | mg/L | 6.638E-06 | 6.638E-06 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0000424 | 0.0000424 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00003349 | 0.00003349 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 3.383E-06 | 3.383E-06 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00003369 | 0.00003369 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 4.589E-06 | 4.589E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | -0.000019 | -0.000019 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | -2.297E-05 | -2.297E-05 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | 0.00009195 | 0.00009195 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14987753 | B22010977-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:43:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0006565 | 0.0006565 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.004028 | 0.004028 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 5.116E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 2.977E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Chromium | A | mg/L | 0.0003294 | 0 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Copper | A | mg/L | 0.0002842 | 0 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 4.955E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Mercury | A | mg/L | 2.954E-06 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.01069 | 0.01069 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.002291 | 0.002291 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -7.365E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.2401 | 0.2401 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00004416 | 0 | | 0 | 0 | 0 | 0.0002991 | 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 | | | | | |
|----------|---------------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14987753 | B22010977-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:43:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Uranium | A | mg/L | 0.00007029 | 0.00007029 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | B | mg/L | -7.618E-06 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.007898 | 0.007898 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | UD |
| Zinc | B | mg/L | 0.003131 | 0.003131 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987754 | B22010977-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:48:4 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0006889 | 0.0006889 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.004263 | 0.004263 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00002529 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 7.348E-06 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 5.799E-06 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001199 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.2234 | 0.2234 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.01176 | 0.01176 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001951 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -6.385E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.2346 | 0.2346 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001355 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00007752 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 24.74 | 24.74 | | 0 | 0 | 0 | 0.1103481 | 0.1103481 | 150 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.0005189 | 0 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | L |
| Copper | B | mg/L | 0.0002497 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Nickel | B | mg/L | 0.002444 | 0.002444 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00007654 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.008397 | 0.008397 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 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 | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14987755 | B22010978-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:54:3 | 1 | R373351 | | 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 | | | | | |
|------------|---------------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987755 | B22010978-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 8:54:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.003839 | 0.003839 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.02585 | 0.02585 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 3.288E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 1.799E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Chromium | A | mg/L | 0.0015 | 0.0015 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0007056 | 0.0007056 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.00001098 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Mercury | A | mg/L | 0.00008625 | 0.00008625 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | J |
| Molybdenum | A | mg/L | 0.01138 | 0.01138 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.001085 | 0.001085 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -7.181E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.2907 | 0.2907 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00003445 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | A | mg/L | 0.0003595 | 0.0003595 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | B | mg/L | 0.00001569 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01359 | 0.01359 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.002307 | 0.002307 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|--------------|-----------|--------|--------|------|-----|------|------|---|
| 14987756 | B22010978-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 9:00:1 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.003468 | 0.003468 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.02617 | 0.02617 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00000728 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 7.197E-06 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 0.00000328 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00003061 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.001179 | 0.001179 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.01261 | 0.01261 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.000703 | 0.000703 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -5.907E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.3023 | 0.3023 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 1.192E-06 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0003748 | 0.0003748 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 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 | | | | | |
|----------|---------------|---------------|------------|----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987756 | B22010978-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 9:00:1 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Calcium | B | mg/L | 22.38 | 22.38 | | 0 | 0 | 0 | 0.1103481 | 0.1103481 | 150 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.001688 | 0.001688 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | D |
| Copper | B | mg/L | 0.0009747 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Nickel | B | mg/L | 0.001324 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Thorium | B | mg/L | 0.00003897 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.01367 | 0.01367 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14987757 | B22010979-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 9:06:0 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0001371 | 0 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Barium | A | mg/L | 0.006268 | 0.006268 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 3.018E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.0001061 | 0.0001061 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | A | mg/L | 0.001078 | 0.001078 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.00118 | 0.00118 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00003943 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Mercury | A | mg/L | -5.781E-07 | 0 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0005137 | 0.0005137 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.001358 | 0.001358 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -6.609E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.1871 | 0.1871 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001591 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | A | mg/L | 0.00001404 | 0 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Sodium | B | mg/L | 39.91 | 39.91 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | -0.0000195 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.008278 | 0.008278 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | UD |
| Zinc | B | mg/L | 0.002956 | 0.002956 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14987758 | B22010979-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 9:11:4 | 1 | 162992 | 1/17/2022 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 | | | | | |
|------------|---------------|---------------|------------|----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14987758 | B22010979-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 9:11:4 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.0001473 | 0 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.004623 | 0.004623 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00001648 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.00001556 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 7.163E-06 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00002209 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.009943 | 0.009943 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00181 | 0.00181 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0002735 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -6.577E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.1871 | 0.1871 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | -4.722E-06 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0000117 | 0 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 15.3 | 15.3 | | 0 | 0 | 0 | 0.1103481 | 0.1103481 | 150 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.001181 | 0 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | L |
| Copper | B | mg/L | 0.0007731 | 0 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | L |
| Nickel | B | mg/L | 0.001187 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 42.1 | 42.1 | | 0 | 0 | 0 | 0.7330269 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00001985 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.008106 | 0.008106 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 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 | | | | | |
|------------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14987759 | B22010980-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 9:17:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.002028 | 0.002028 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.009896 | 0.009896 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 6.084E-06 | 0 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 1.262E-06 | 0 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Chromium | A | mg/L | 0.0005989 | 0.0005989 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0009875 | 0.0009875 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 4.665E-06 | 0 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Mercury | A | mg/L | 0.000162 | 0.000162 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | 0 | 0 | 0% | J |
| Molybdenum | A | mg/L | 0.003798 | 0.003798 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.0005303 | 0.0005303 | | 0 | 0 | 0 | 0.0002531 | 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 | | | | | |
|-----------|---------------|---------------|------------|----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987759 | B22010980-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 9:17:2 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silver | A | mg/L | -6.732E-05 | 0 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.3007 | 0.3007 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001861 | 0 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | A | mg/L | 0.000193 | 0.000193 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | B | mg/L | -0.00002 | 0 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01451 | 0.01451 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.00246 | 0.00246 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 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 | | | | | |
|------------|---------------|---------------|------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14987760 | B22010980-001 | ICPMS-6020-W- | SAMP | | 1/19/2022 9:23:1 | 1 | 162992 | 1/17/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Arsenic | A | mg/L | 0.002094 | 0.002094 | | 0 | 0 | 0 | 0.0002677 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.01035 | 0.01035 | | 0 | 0 | 0 | 0.0002408 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 6.939E-06 | 0 | | 0 | 0 | 0 | 4.567E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.00005458 | 0.00005458 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.00002055 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00005154 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.007486 | 0.007486 | | 0 | 0 | 0 | 0.0002139 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.004412 | 0.004412 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0003921 | 0 | | 0 | 0 | 0 | 0.0005855 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -4.771E-05 | 0 | | 0 | 0 | 0 | 4.316E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.3142 | 0.3142 | | 0 | 0 | 0 | 0.0001264 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | -2.104E-06 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0002051 | 0.0002051 | | 0 | 0 | 0 | 8.449E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Calcium | B | mg/L | 38.91 | 38.91 | | 0 | 0 | 0 | 0.1103481 | 0.1103481 | 150 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.001488 | 0 | | 0 | 0 | 0 | 0.00154 | 0.00154 | 1 | 0% | 0 | 0 | 0% | L |
| Copper | B | mg/L | 0.002473 | 0.002473 | | 0 | 0 | 0 | 0.00198 | 0.0034752 | 1 | 0% | 0 | 0 | 0% | JL |
| Nickel | B | mg/L | 0.0006631 | 0 | | 0 | 0 | 0 | 0.0024200 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | L |
| Thorium | B | mg/L | 0.00001382 | 0 | | 0 | 0 | 0 | 0.00415 | 0.00415 | 1 | 0% | 0 | 0 | 0% | L |
| Vanadium | B | mg/L | 0.01544 | 0.01544 | | 0 | 0 | 0 | 0.0021085 | 0.0021085 | 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 | | | | | |
|---------------|--------|------------------|------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14987761 | CCV | ICPMS-6020-W-CCV | | | 1/19/2022 9:28:5 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04806 | 0.04806 | | 0.05 | 0 | 0 | 0.0006548 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.04566 | 0.04566 | | 0.05 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 91% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05083 | 0.05083 | | 0.05 | 0 | 0 | 0.0001814 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04768 | 0.04768 | | 0.05 | 0 | 0 | 0.0001321 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04642 | 0.04642 | | 0.05 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 93% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.04771 | 0.04771 | | 0.05 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 95% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.04977 | 0.04977 | | 0.05 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.83 | 12.83 | | 12.5 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 103% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.0476 | 0.0476 | | 0.05 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 95% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.0507 | 0.0507 | | 0.05 | 0 | 0 | 0.0005481 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04775 | 0.04775 | | 0.05 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05106 | 0.05106 | | 0.05 | 0 | 0 | 0.0003828 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.31 | 1.31 | | 1.3 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 101% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.04776 | 0.04776 | | 0.05 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 96% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04667 | 0.04667 | | 0.05 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 93% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.4496 | 0.4496 | | 0.625 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 72% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 12.29 | 12.29 | | 12.5 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 98% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.04748 | 0.04748 | | 0.05 | 0 | 0 | 0.0001444 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009722 | 0.0009722 | | 0.001 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 97% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.0488 | 0.0488 | | 0.05 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05173 | 0.05173 | | 0.05 | 0 | 0 | 0.0002531 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 11.46 | 11.46 | | 12.5 | 0 | 0 | 0.207399 | 0.207399 | 50 | 92% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05308 | 0.05308 | | 0.05 | 0 | 0 | 0.0001415 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2617 | 0.2617 | | 0.2 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 131% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.01962 | 0.01962 | | 0.02 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 98% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 13.18 | 13.18 | | 12.5 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 105% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.04926 | 0.04926 | | 0.05 | 0 | 0 | 0.0001825 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.04912 | 0.04912 | | 0.05 | 0 | 0 | 0.0002991 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05042 | 0.05042 | | 0.05 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 101% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04663 | 0.04663 | | 0.05 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 93% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04764 | 0.04764 | | 0.05 | 0 | 0 | 0.0002974 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04638 | 0.04638 | | 0.05 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 93% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04968 | 0.04968 | | 0.05 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05045 | 0.05045 | | 0.05 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 101% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.31 | 1.31 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 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 | | | | | |
|---------------|--------|---------------|------------|------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14987762 | CCB | ICPMS-6020-W- | CCB | | 1/19/2022 9:36:3 | 1 | R373351 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.00005606 | 0.00005606 | | 0 | 0 | 0 | 0.0006548 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.00001663 | 0.00001663 | | 0 | 0 | 0 | 0.0002987 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | 2.074E-06 | 2.074E-06 | | 0 | 0 | 0 | 0.0001814 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | 0.00001031 | 0.00001031 | | 0 | 0 | 0 | 0.0001321 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | 5.112E-06 | 5.112E-06 | | 0 | 0 | 0 | 7.465E-05 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | -9.162E-05 | -9.162E-05 | | 0 | 0 | 0 | 0.0030032 | 0.0030032 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | 5.291E-06 | 5.291E-06 | | 0 | 0 | 0 | 5.139E-05 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | 0.004921 | 0.004921 | | 0 | 0 | 0 | 0.0749796 | 0.0749796 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | 5.077E-06 | 5.077E-06 | | 0 | 0 | 0 | 1.462E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | 0.00001239 | 0.00001239 | | 0 | 0 | 0 | 0.0005481 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | 0.00000337 | 0.00000337 | | 0 | 0 | 0 | 4.756E-05 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | 0.0001997 | 0.0001997 | | 0 | 0 | 0 | 0.0003828 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | 0.0002125 | 0.0002125 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | 2.385E-06 | 2.385E-06 | | 0 | 0 | 0 | 1.683E-05 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 4.461E-06 | 4.461E-06 | | 0 | 0 | 0 | 6.264E-05 | 0.001 | 1 | 0% | | | | 0% |
| Lithium | A | mg/L | -0.001346 | -0.001346 | | 0 | 0 | 0 | 0.0052105 | 0.0052105 | 2.5 | 0% | | | | 0% |
| Magnesium | A | mg/L | 0.003667 | 0.003667 | | 0 | 0 | 0 | 0.0118993 | 0.0118993 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | 0.000018 | 0.000018 | | 0 | 0 | 0 | 0.0001444 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 0.00000137 | 0.00000137 | | 0 | 0 | 0 | 0.000066 | 0.001 | 0.02 | 0% | | | | 0% |
| Molybdenum | A | mg/L | 0.00001018 | 0.00001018 | | 0 | 0 | 0 | 8.338E-05 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | -0.0000101 | -0.0000101 | | 0 | 0 | 0 | 0.0002531 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | 0.006194 | 0.006194 | | 0 | 0 | 0 | 0.207399 | 0.207399 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.00000521 | 0.00000521 | | 0 | 0 | 0 | 0.0001415 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | -0.02893 | -0.02893 | | 0 | 0 | 0 | 0.0146174 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | 0.00000255 | 0.00000255 | | 0 | 0 | 0 | 1.123E-05 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | 0.01755 | 0.01755 | | 0 | 0 | 0 | 0.0809273 | 0.0809273 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | 0.0000422 | 0.0000422 | | 0 | 0 | 0 | 0.0001825 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.00001661 | 0.00001661 | | 0 | 0 | 0 | 0.0002991 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.00001779 | 0.00001779 | | 0 | 0 | 0 | 0.0010473 | 0.0010473 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | 0.00003747 | 0.00003747 | | 0 | 0 | 0 | 0.0022388 | 0.0022388 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.00001919 | 0.00001919 | | 0 | 0 | 0 | 0.0002974 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 5.737E-06 | 5.737E-06 | | 0 | 0 | 0 | 3.139E-05 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | 0.00001672 | 0.00001672 | | 0 | 0 | 0 | 0.0043468 | 0.0043468 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | 1.553E-06 | 1.553E-06 | | 0 | 0 | 0 | 0.0011598 | 0.0011598 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | 0.0002125 | 0.0002125 | | 0 | 0 | 0 | 0.0046291 | 0.0046291 | 5 | 0% | 0 | 0 | | 0% |

Batch Summary Report

Batch Folder: D:\Data\220118ADoD.b\
 Analysis File: 220118ADoD.batch.bin
 Tune Step: #1 NO GAS
 #2 H2
 #3 He

| | Rjct | Acq. Date-Time | Data File | Sample Name | Type | Level | Dilution |
|----|------|---------------------|-----------|-----------------|---------|-------|----------|
| 1 | | 2022-01-18 18:18:16 | 001BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 2 | | 2022-01-18 18:23:59 | 002BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 3 | | 2022-01-18 18:29:43 | 003BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 4 | | 2022-01-18 18:35:28 | 004BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 5 | | 2022-01-18 18:41:14 | 005CALB.d | BLANK | CalBlk | 1 | 1.0000 |
| 6 | | 2022-01-18 18:47:26 | 006CALB.d | 0.025 PPB STD | CalStd | 2 | 1.0000 |
| 7 | | 2022-01-18 18:53:25 | 007CALB.d | 0.05 PPB STD | CalStd | 3 | 1.0000 |
| 8 | | 2022-01-18 18:59:25 | 008CALB.d | 0.10 PPB STD | CalStd | 4 | 1.0000 |
| 9 | | 2022-01-18 19:05:25 | 009CALB.d | 0.5 PPB STD | CalStd | 5 | 1.0000 |
| 10 | | 2022-01-18 19:11:25 | 010CALB.d | 1 PPB STD | CalStd | 6 | 1.0000 |
| 11 | On | 2022-01-18 19:17:26 | 011CALB.d | 10 PPB STD | CalStd | 7 | 1.0000 |
| 12 | | 2022-01-18 19:23:25 | 012CALB.d | 50 PPB STD | CalStd | 8 | 1.0000 |
| 13 | | 2022-01-18 19:29:22 | 013CALB.d | 100 PPB STD | CalStd | 9 | 1.0000 |
| 14 | | 2022-01-18 19:35:12 | 014CALB.d | 1000 PPB STD | CalStd | 10 | 1.0000 |
| 15 | | 2022-01-18 19:40:51 | 015CALB.d | 100 ppb Bromine | CalStd | 11 | 1.0000 |
| 16 | | 2022-01-18 19:46:41 | 016BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 17 | | 2022-01-18 19:52:26 | 017_QCS.d | QCS | QCS | | 1.0000 |
| 18 | | 2022-01-18 19:58:06 | 018_CCV.d | CCV | CCV | | 1.0000 |
| 19 | | 2022-01-18 20:03:48 | 019BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 20 | | 2022-01-18 20:09:33 | 020CALB.d | 10 PPB STD | CalStd | 7 | 1.0000 |
| 21 | | 2022-01-18 20:15:24 | 021_QCS.d | QCS | QCS | | 1.0000 |
| 22 | | 2022-01-18 20:21:07 | 022_CCV.d | CCV | CCV | | 1.0000 |
| 23 | | 2022-01-18 20:26:51 | 023_CCB.d | CCB | CCB | | 1.0000 |
| 24 | | 2022-01-18 20:32:37 | 024CALB.d | 0.10 PPB STD | CalStd | 4 | 1.0000 |
| 25 | | 2022-01-18 21:19:02 | 025BLKV.d | Rinse | BlkVrfy | | 1.0000 |

Batch Summary Report

| | Rjct | Acq. Date-Time | Data File | Sample Name | Type | Level | Dilution |
|----|------|---------------------|-----------|-----------------|---------|-------|----------|
| 26 | | 2022-01-18 21:24:49 | 026CALB.d | BLANK | CalBlk | 1 | 1.0000 |
| 27 | | 2022-01-18 21:30:42 | 027CALB.d | 0.025 PPB STD | CalStd | 2 | 1.0000 |
| 28 | | 2022-01-18 21:36:33 | 028CALB.d | 0.05 PPB STD | CalStd | 3 | 1.0000 |
| 29 | On | 2022-01-18 21:42:24 | 029CALB.d | 0.10 PPB STD | CalStd | 4 | 1.0000 |
| 30 | | 2022-01-18 21:48:15 | 030CALB.d | 0.5 PPB STD | CalStd | 5 | 1.0000 |
| 31 | | 2022-01-18 21:54:07 | 031CALB.d | 1 PPB STD | CalStd | 6 | 1.0000 |
| 32 | | 2022-01-18 21:59:59 | 032CALB.d | 10 PPB STD | CalStd | 7 | 1.0000 |
| 33 | | 2022-01-18 22:05:50 | 033CALB.d | 50 PPB STD | CalStd | 8 | 1.0000 |
| 34 | | 2022-01-18 22:11:40 | 034CALB.d | 100 PPB STD | CalStd | 9 | 1.0000 |
| 35 | | 2022-01-18 22:17:24 | 035CALB.d | 1000 PPB STD | CalStd | 10 | 1.0000 |
| 36 | | 2022-01-18 22:22:59 | 036CALB.d | 100 ppb Bromine | CalStd | 11 | 1.0000 |
| 37 | | 2022-01-18 22:29:02 | 037BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 38 | On | 2022-01-18 22:34:49 | 038CALB.d | 0.10 PPB STD | CalStd | 4 | 1.0000 |
| 39 | | 2022-01-18 22:40:39 | 039CALB.d | 0.10 PPB STD | CalStd | 4 | 1.0000 |
| 40 | | 2022-01-18 22:46:30 | 040 QCS.d | QCS | QCS | | 1.0000 |
| 41 | | 2022-01-18 22:52:14 | 041 CCV.d | CCV | CCV | | 1.0000 |
| 42 | | 2022-01-18 22:57:57 | 042 CCB.d | CCB | CCB | | 1.0000 |
| 43 | | 2022-01-18 23:03:43 | 043 LRB.d | LRB | LRB | | 1.0000 |
| 44 | | 2022-01-18 23:09:28 | 044LFB.d | LFB | LFB | | 1.0300 |
| 45 | | 2022-01-18 23:15:10 | 045ICSA.d | ICSA | ICSA | | 1.0000 |
| 46 | | 2022-01-18 23:20:56 | 046ICSB.d | ICSAB | ICSB | | 1.0000 |
| 47 | | 2022-01-18 23:26:40 | 047BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 48 | | 2022-01-18 23:32:25 | 048 CCV.d | CCV | CCV | | 1.0000 |
| 49 | | 2022-01-18 23:38:09 | 049 CCB.d | CCB | CCB | | 1.0000 |
| 50 | | 2022-01-18 23:43:55 | 050BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 51 | | 2022-01-18 23:49:40 | 051 ARF.d | MB-162360 | AllRef | | 1.0000 |
| 52 | | 2022-01-18 23:55:24 | 052 ARF.d | MB-162497 | AllRef | | 1.0000 |
| 53 | | 2022-01-19 00:01:08 | 053 ARF.d | MB-162992 | AllRef | | 1.0000 |
| 54 | | 2022-01-19 00:06:52 | 054LCS4.d | LCS4-162360 | LCS4 | | 1.0000 |
| 55 | | 2022-01-19 00:12:26 | 055LCS4.d | LCS4-162497 | LCS4 | | 1.0000 |
| 56 | | 2022-01-19 00:18:02 | 056LCS4.d | LCS4-162992 | LCS4 | | 1.0000 |
| 57 | | 2022-01-19 00:23:38 | 057BLKV.d | Rinse | BlkVrfy | | 1.0000 |

Batch Summary Report

| | Rjct | Acq. Date-Time | Data File | Sample Name | Type | Level | Dilution |
|----|------|---------------------|-----------|--------------------|---------|-------|----------|
| 58 | | 2022-01-19 00:29:22 | 058SMPL.d | B21121609-001A | Sample | | 1.0000 |
| 59 | | 2022-01-19 00:35:03 | 059SMPL.d | B21121611-001H | Sample | | 1.0000 |
| 60 | | 2022-01-19 00:40:47 | 060SMPL.d | B21121613-001A | Sample | | 1.0000 |
| 61 | | 2022-01-19 00:46:30 | 061SMPL.d | B21121613-001ADIL | Sample | | 5.0000 |
| 62 | | 2022-01-19 00:52:13 | 062_CCV.d | CCV | CCV | | 1.0000 |
| 63 | | 2022-01-19 00:57:53 | 063_CCB.d | CCB | CCB | | 1.0000 |
| 64 | | 2022-01-19 01:03:40 | 064_ARF.d | B21121613-001APDS1 | AllRef | | 1.0300 |
| 65 | | 2022-01-19 01:09:20 | 065MS4.d | B21121613-001AMS4 | MS4 | | 1.0000 |
| 66 | | 2022-01-19 01:14:57 | 066MSD4.d | B21121613-001AMSD4 | MSD4 | | 1.0000 |
| 67 | | 2022-01-19 01:20:32 | 067BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 68 | | 2022-01-19 01:26:18 | 068SMPL.d | B21121616-001A | Sample | | 1.0000 |
| 69 | | 2022-01-19 01:32:03 | 069SMPL.d | B21121622-001G | Sample | | 1.0000 |
| 70 | | 2022-01-19 01:37:47 | 070SMPL.d | B21121622-002G | Sample | | 1.0000 |
| 71 | | 2022-01-19 01:43:29 | 071SMPL.d | B21121622-003G | Sample | | 1.0000 |
| 72 | | 2022-01-19 01:49:12 | 072SMPL.d | B21121623-001A | Sample | | 1.0000 |
| 73 | | 2022-01-19 01:54:53 | 073SMPL.d | B21121957-001H | Sample | | 1.0000 |
| 74 | | 2022-01-19 02:00:38 | 074SMPL.d | B21121957-001HDIL | Sample | | 5.0000 |
| 75 | | 2022-01-19 02:06:24 | 075_CCV.d | CCV | CCV | | 1.0000 |
| 76 | | 2022-01-19 02:12:07 | 076_CCB.d | CCB | CCB | | 1.0000 |
| 77 | | 2022-01-19 02:17:53 | 077_ARF.d | B21121957-001HPDS1 | AllRef | | 1.0300 |
| 78 | | 2022-01-19 02:23:31 | 078MS4.d | B21121957-001HMS4 | MS4 | | 1.0000 |
| 79 | | 2022-01-19 02:29:07 | 079MSD4.d | B21121957-001HMSD4 | MSD4 | | 1.0000 |
| 80 | | 2022-01-19 02:34:40 | 080BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 81 | | 2022-01-19 02:40:23 | 081SMPL.d | B21121957-001I | Sample | | 1.0000 |
| 82 | | 2022-01-19 02:46:07 | 082_ARF.d | B21121957-001IDIL | AllRef | | 5.0000 |
| 83 | | 2022-01-19 02:51:52 | 083MS.d | B21121957-001IMS | MS | | 1.0300 |
| 84 | | 2022-01-19 02:57:36 | 084MSD.d | B21121957-001IMSD | MSD | | 1.0300 |
| 85 | | 2022-01-19 03:03:14 | 085BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 86 | | 2022-01-19 03:08:58 | 086SMPL.d | B21121959-001A | Sample | | 1.0000 |
| 87 | | 2022-01-19 03:14:42 | 087SMPL.d | B21121959-001B | Sample | | 1.0000 |
| 88 | | 2022-01-19 03:20:28 | 088SMPL.d | B21121961-001A | Sample | | 1.0000 |
| 89 | | 2022-01-19 03:26:11 | 089_CCV.d | CCV | CCV | | 1.0000 |

Batch Summary Report

| | Rjct | Acq. Date-Time | Data File | Sample Name | Type | Level | Dilution |
|-----|------|---------------------|------------|-------------------|---------|-------|----------|
| 90 | | 2022-01-19 03:31:52 | 090 CCB.d | CCB | CCB | | 1.0000 |
| 91 | | 2022-01-19 03:37:38 | 091SMPL.d | B21121961-001B | Sample | | 1.0000 |
| 92 | | 2022-01-19 03:43:22 | 092SMPL.d | B21121965-001A | Sample | | 1.0000 |
| 93 | | 2022-01-19 03:49:06 | 093SMPL.d | B21121965-001B | Sample | | 1.0000 |
| 94 | | 2022-01-19 03:54:50 | 094SMPL.d | B21121967-001A | Sample | | 1.0000 |
| 95 | | 2022-01-19 04:00:34 | 095SMPL.d | B21121967-001B | Sample | | 1.0000 |
| 96 | | 2022-01-19 04:06:18 | 096SMPL.d | B21121968-001A | Sample | | 1.0000 |
| 97 | | 2022-01-19 04:12:02 | 097SMPL.d | B21121968-001B | Sample | | 1.0000 |
| 98 | | 2022-01-19 04:17:46 | 098 CCV.d | CCV | CCV | | 1.0000 |
| 99 | | 2022-01-19 04:23:28 | 099 CCB.d | CCB | CCB | | 1.0000 |
| 100 | | 2022-01-19 04:29:16 | 100CALB.d | BLANK | CalBlk | 1 | 1.0000 |
| 101 | | 2022-01-19 04:35:07 | 101CAL.S.d | 0.025 PPB STD | CalStd | 2 | 1.0000 |
| 102 | | 2022-01-19 04:40:58 | 102CAL.S.d | 0.05 PPB STD | CalStd | 3 | 1.0000 |
| 103 | | 2022-01-19 04:46:50 | 103CAL.S.d | 0.10 PPB STD | CalStd | 4 | 1.0000 |
| 104 | | 2022-01-19 04:52:42 | 104CAL.S.d | 0.5 PPB STD | CalStd | 5 | 1.0000 |
| 105 | | 2022-01-19 04:58:34 | 105CAL.S.d | 1 PPB STD | CalStd | 6 | 1.0000 |
| 106 | | 2022-01-19 05:04:25 | 106CAL.S.d | 10 PPB STD | CalStd | 7 | 1.0000 |
| 107 | | 2022-01-19 05:10:16 | 107CAL.S.d | 50 PPB STD | CalStd | 8 | 1.0000 |
| 108 | | 2022-01-19 05:16:05 | 108CAL.S.d | 100 PPB STD | CalStd | 9 | 1.0000 |
| 109 | | 2022-01-19 05:21:50 | 109CAL.S.d | 1000 PPB STD | CalStd | 10 | 1.0000 |
| 110 | | 2022-01-19 05:27:26 | 110CAL.S.d | 100 ppb Bromine | CalStd | 11 | 1.0000 |
| 111 | | 2022-01-19 05:33:14 | 111BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 112 | | 2022-01-19 05:38:59 | 112 QCS.d | QCS | QCS | | 1.0000 |
| 113 | | 2022-01-19 05:44:41 | 113ICSA.d | ICSA | ICSA | | 1.0000 |
| 114 | | 2022-01-19 05:50:25 | 114ICSB.d | ICSAB | ICSB | | 1.0000 |
| 115 | | 2022-01-19 05:56:09 | 115BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 116 | | 2022-01-19 06:01:53 | 116 CCV.d | CCV | CCV | | 1.0000 |
| 117 | | 2022-01-19 06:07:35 | 117 CCB.d | CCB | CCB | | 1.0000 |
| 118 | | 2022-01-19 06:13:22 | 118SMPL.d | B22010751-001A | Sample | | 1.0000 |
| 119 | | 2022-01-19 06:19:26 | 119SMPL.d | B22010971-001A | Sample | | 1.0000 |
| 120 | | 2022-01-19 06:25:10 | 120SMPL.d | B22010971-001B | Sample | | 1.0000 |
| 121 | | 2022-01-19 06:30:55 | 121SMPL.d | B22010971-001BDIL | Sample | | 5.0000 |

Batch Summary Report

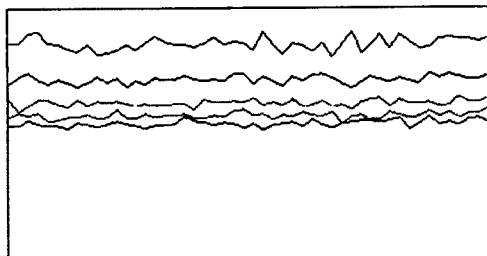
| | Rjct | Acq. Date-Time | Data File | Sample Name | Type | Level | Dilution |
|-----|------|---------------------|-----------|--------------------|---------|-------|----------|
| 122 | | 2022-01-19 06:36:39 | 122 ARF.d | B22010971-001BPDS1 | AllRef | | 1.0300 |
| 123 | | 2022-01-19 06:42:19 | 123MS4.d | B22010971-001BMS4 | MS4 | | 1.0000 |
| 124 | | 2022-01-19 06:47:54 | 124MSD4.d | B22010971-001BMSD4 | MSD4 | | 1.0000 |
| 125 | | 2022-01-19 06:54:12 | 125BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 126 | | 2022-01-19 06:59:56 | 126SMPL.d | B22010972-001A | Sample | | 1.0000 |
| 127 | | 2022-01-19 07:05:40 | 127SMPL.d | B22010972-001B | Sample | | 1.0000 |
| 128 | | 2022-01-19 07:11:23 | 128SMPL.d | B22010973-001A | Sample | | 1.0000 |
| 129 | | 2022-01-19 07:17:08 | 129 CCV.d | CCV | CCV | | 1.0000 |
| 130 | | 2022-01-19 07:22:48 | 130 CCB.d | CCB | CCB | | 1.0000 |
| 131 | | 2022-01-19 07:28:36 | 131 ARF.d | B22010973-001ADIL | AllRef | | 5.0000 |
| 132 | | 2022-01-19 07:34:19 | 132MS.d | B22010973-001AMS | MS | | 1.0300 |
| 133 | | 2022-01-19 07:39:58 | 133MSD.d | B22010973-001AMSD | MSD | | 1.0300 |
| 134 | | 2022-01-19 07:45:36 | 134BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 135 | | 2022-01-19 07:51:23 | 135SMPL.d | B22010973-001B | Sample | | 1.0000 |
| 136 | | 2022-01-19 07:57:08 | 136SMPL.d | B22010974-001A | Sample | | 1.0000 |
| 137 | | 2022-01-19 08:02:52 | 137SMPL.d | B22010974-001B | Sample | | 1.0000 |
| 138 | | 2022-01-19 08:08:35 | 138SMPL.d | B22010975-001A | Sample | | 1.0000 |
| 139 | | 2022-01-19 08:14:19 | 139SMPL.d | B22010975-001B | Sample | | 1.0000 |
| 140 | | 2022-01-19 08:20:05 | 140SMPL.d | B22010976-001A | Sample | | 1.0000 |
| 141 | | 2022-01-19 08:25:49 | 141SMPL.d | B22010976-001B | Sample | | 1.0000 |
| 142 | | 2022-01-19 08:31:32 | 142 CCV.d | CCV | CCV | | 1.0000 |
| 143 | | 2022-01-19 08:37:14 | 143 CCB.d | CCB | CCB | | 1.0000 |
| 144 | | 2022-01-19 08:43:02 | 144SMPL.d | B22010977-001A | Sample | | 1.0000 |
| 145 | | 2022-01-19 08:48:48 | 145SMPL.d | B22010977-001B | Sample | | 1.0000 |
| 146 | | 2022-01-19 08:54:34 | 146SMPL.d | B22010978-001A | Sample | | 1.0000 |
| 147 | | 2022-01-19 09:00:19 | 147SMPL.d | B22010978-001B | Sample | | 1.0000 |
| 148 | | 2022-01-19 09:06:02 | 148SMPL.d | B22010979-001A | Sample | | 1.0000 |
| 149 | | 2022-01-19 09:11:45 | 149SMPL.d | B22010979-001B | Sample | | 1.0000 |
| 150 | | 2022-01-19 09:17:28 | 150SMPL.d | B22010980-001A | Sample | | 1.0000 |
| 151 | | 2022-01-19 09:23:10 | 151SMPL.d | B22010980-001B | Sample | | 1.0000 |
| 152 | | 2022-01-19 09:28:53 | 152 CCV.d | CCV | CCV | | 1.0000 |
| 153 | | 2022-01-19 09:36:39 | 153 CCB.d | CCB | CCB | | 1.0000 |

Tune Report

Operator Name eli
 Acq/Data Batch D:\Data\220118A.b
 Acq. Date-Time 2022-01-18 13:35:58
 Report Comment ICPMS206-B JPV
 Instrument Name G3281A JP12091601

[NO GAS]

Sensitivity



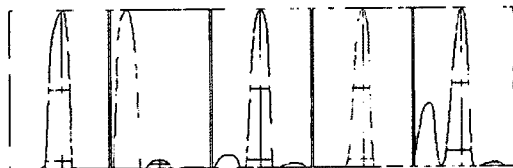
| Mass | Range | Count | RSD% | Background |
|------|--------|--------|-------|------------|
| 9 | 200000 | 172317 | 2.841 | 24.900 |
| 24 | 50000 | 31200 | 2.020 | 9.800 |
| 59 | 100000 | 71693 | 2.178 | 9.300 |
| 115 | 50000 | 28753 | 2.127 | 14.500 |
| 208 | 20000 | 10865 | 2.177 | 24.600 |

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

Oxide/Doubly Charged Ratio

Oxide 156 / 140 0.896 %
 Doubly Charged 70 / 140 1.228 %

Resolution/Axis



| Mass | Peak Height | Axis | W-50% | W-5% |
|------|-------------|--------|-------|-------|
| 9 | 176403.15 | 9.10 | 0.65 | 0.783 |
| 24 | 31101.33 | 24.00 | 0.62 | 0.744 |
| 59 | 71214.14 | 59.00 | 0.60 | 0.780 |
| 115 | 28593.56 | 115.05 | 0.52 | 0.760 |
| 208 | 10864.19 | 207.95 | 0.51 | 0.770 |

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

Tune Parameters

Plasma Parameters

| | | | | | |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode | --- | Nebulizer Gas | 0.80 L/min | Dilution Gas | 0.12 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | --- |
| RF Matching | 1.70 V | Nebulizer Pump | 0.10 rps | Plasma Gas | --- |
| Sample Depth | 8.0 mm | S/C Temp | 2 °C | | |

Lens Parameters

| | | | | | |
|-----------|----------|---------------|--------|------------|--------|
| Extract 1 | -3.9 V | Omega Lens | 11.1 V | Deflect | 16.8 V |
| Extract 2 | -200.0 V | Cell Entrance | -50 V | Plate Bias | -60 V |

Tune Report

Omega Bias -105 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 131 Axis Gain 1.0010 QP Bias -3.0 V
 Mass Offset 126 Axis Offset 0.09

Hardware Settings

Torch

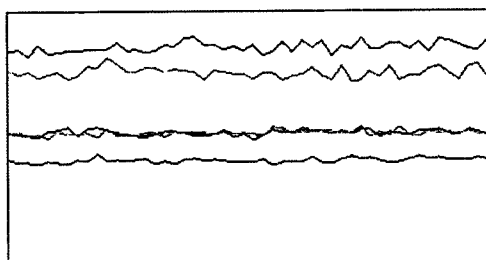
Torch H -0.1 mm Torch V -0.4 mm

EM

Discriminator 6.1 mV Analog HV 1610 V Pulse HV 996 V

[H2]

Sensitivity



| Mass | Range | Count | RSD% | Background |
|------|-------|-------|-------|------------|
| 9 | 50000 | 20388 | 2.241 | 0.500 |
| 24 | 10000 | 7591 | 2.790 | 0.100 |
| 59 | 50000 | 25945 | 2.150 | 0.400 |
| 115 | 50000 | 25913 | 1.996 | 0.800 |
| 208 | 10000 | 8610 | 2.290 | 0.500 |

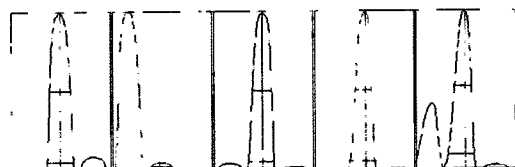
Sampling Period [sec] 0.514

Integration Time [sec] 0.1

Oxide/Doubly Charged Ratio

Oxide --
 Doubly Charged 70 / 140 1.116 %

Resolution/Axis



| Mass | Peak Height | Axis | W-50% | W-5% |
|------|-------------|--------|-------|-------|
| 9 | 20393.34 | 9.00 | 0.63 | 0.784 |
| 24 | 7757.23 | 23.95 | 0.63 | 0.744 |
| 59 | 25893.14 | 59.00 | 0.60 | 0.777 |
| 115 | 26342.09 | 115.05 | 0.52 | 0.758 |
| 208 | 8397.81 | 208.00 | 0.50 | 0.783 |

Integration Time [sec] 0.1

Acquisition Time [sec] 37.4

Y Axis Linear

Tune Parameters

Plasma Parameters

Tune Report

| | | | | | |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode | --- | Nebulizer Gas | 0.80 L/min | Dilution Gas | 0.12 L/min |
| RF Power | 1600 W | Opton Gas | --- | Auxiliary Gas | --- |
| RF Matching | 1.70 V | Nebulizer Pump | 0.10 rps | Plasma Gas | --- |
| Sample Depth | 8.0 mm | S/C Temp | 2 °C | | |

Lens Parameters

| | | | | | |
|------------|----------|---------------|--------|------------|--------|
| Extract 1 | -1.8 V | Omega Lens | 12.2 V | Deflect | -3.0 V |
| Extract 2 | -200.0 V | Cell Entrance | -40 V | Plate Bias | -48 V |
| Omega Bias | -100 V | Cell Ext | -60 V | | |

Cell Parameters

| | | | | | |
|---------|------------|--------------|---------|-----------------------|-------|
| Use Gas | Yes | 3rd Gas Flow | --- | Energy Discrimination | 2.0 V |
| He Flow | 0.0 mL/min | OctP Bias | -18.0 V | | |
| H2 Flow | 3.5 mL/min | OctP RF | 190 V | | |

QP Parameters

| | | | | | |
|-------------|-----|-------------|--------|---------|---------|
| Mass Gain | 131 | Axis Gain | 1.0010 | QP Bias | -16.0 V |
| Mass Offset | 126 | Axis Offset | 0.09 | | |

Hardware Settings

Torch

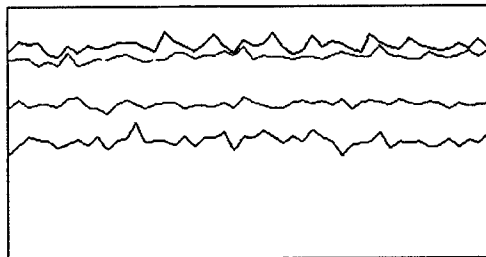
| | | | |
|---------|---------|---------|---------|
| Torch H | -0.1 mm | Torch V | -0.4 mm |
|---------|---------|---------|---------|

EM

| | | | | | |
|---------------|--------|-----------|--------|----------|-------|
| Discriminator | 6.1 mV | Analog HV | 1610 V | Pulse HV | 996 V |
|---------------|--------|-----------|--------|----------|-------|

[He]

Sensitivity



| Mass | Range | Count | RSD% | Background |
|------|-------|-------|-------|------------|
| 24 | 1000 | 468 | 5.212 | 0.500 |
| 59 | 20000 | 16046 | 2.017 | 0.200 |
| 115 | 5000 | 4239 | 2.686 | 0.400 |
| 208 | 10000 | 6141 | 2.211 | 0.800 |

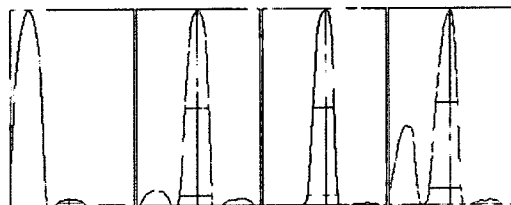
Sampling Period [sec] 0.412

Integration Time [sec] 0.1

Oxide/Doubly Charged Ratio

| | |
|----------------|------------------|
| Oxide | --- |
| Doubly Charged | 70 / 140 1.535 % |

Resolution/Axis



| Mass | Peak Height | Axis | W-50% | W-5% |
|------|-------------|--------|-------|-------|
| 24 | 467.59 | 23.95 | 0.64 | 0.743 |
| 59 | 16068.62 | 59.00 | 0.59 | 0.772 |
| 115 | 4281.31 | 115.05 | 0.52 | 0.727 |
| 208 | 6156.48 | 208.00 | 0.51 | 0.760 |

Integration Time [sec] 0.1

Tune Report

Acquisition Time [sec] 29.92
Y Axis Linear

Tune Parameters

Plasma Parameters

| | | | | | |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode | --- | Nebulizer Gas | 0.80 L/min | Dilution Gas | 0.12 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | --- |
| RF Matching | 1.70 V | Nebulizer Pump | 0.10 rps | Plasma Gas | --- |
| Sample Depth | 8.0 mm | S/C Temp | 2 °C | | |

Lens Parameters

| | | | | | |
|------------|----------|---------------|--------|------------|-------|
| Extract 1 | -1.9 V | Omega Lens | 12.3 V | Deflect | 0.0 V |
| Extract 2 | -200.0 V | Cell Entrance | -40 V | Plate Bias | -48 V |
| Omega Bias | -120 V | Cell Exit | -60 V | | |

Cell Parameters

| | | | | | |
|---------|------------|--------------|---------|-----------------------|-------|
| Use Gas | Yes | 3rd Gas Flow | --- | Energy Discrimination | 3.0 V |
| He Flow | 4.5 mL/min | OctP Bias | -18.0 V | | |
| H2 Flow | 0.0 mL/min | OctP RF | 200 V | | |

QP Parameters

| | | | | | |
|-------------|-----|-------------|--------|---------|---------|
| Mass Gain | 131 | Axis Gain | 1.0010 | QP Bias | -15.0 V |
| Mass Offset | 126 | Axis Offset | 0.09 | | |

Hardware Settings

Torch

| | | | |
|---------|---------|---------|---------|
| Torch H | -0.1 mm | Torch V | -0.4 mm |
|---------|---------|---------|---------|

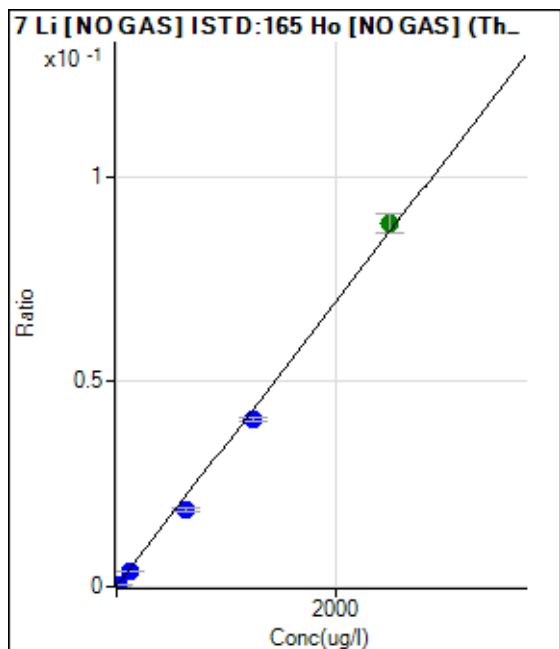
EM

| | | | | | |
|---------------|--------|-----------|--------|----------|-------|
| Discriminator | 6.1 mV | Analog HV | 1610 V | Pulse HV | 996 V |
|---------------|--------|-----------|--------|----------|-------|

Calibration for 039CAL.S.d

Batch Folder: D:\Data\220118ADoD.b\
 Analysis File: 220118ADoD.batch.bin
 DA Date-Time: 2022-01-19 06:52:31
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|-------|--------------------|-----------------|---------------------|
| 1 | 026CALB.d | BLANK | 2022-01-18 21:24:49 |
| 2 | 027CAL.S.d | 0.025 PPB STD | 2022-01-18 21:30:42 |
| 3 | 028CAL.S.d | 0.05 PPB STD | 2022-01-18 21:36:33 |
| 4 | 039CAL.S.d | 0.10 PPB STD | 2022-01-18 22:40:39 |
| 5 | 030CAL.S.d | 0.5 PPB STD | 2022-01-18 21:48:15 |
| 6 | 031CAL.S.d | 1 PPB STD | 2022-01-18 21:54:07 |
| 7 | 032CAL.S.d | 10 PPB STD | 2022-01-18 21:59:59 |
| 8 | 033CAL.S.d | 50 PPB STD | 2022-01-18 22:05:50 |
| 9 | 034CAL.S.d | 100 PPB STD | 2022-01-18 22:11:40 |
| 10 | 035CAL.S.d | 1000 PPB STD | 2022-01-18 22:17:24 |
| 11 | 036CAL.S.d | 100 ppb Bromine | 2022-01-18 22:22:59 |



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 1823.07 | 0.0001 | P | 2.0 |
| 2 | <input type="checkbox"/> | 0.031 | 0.090 | 1875.73 | 0.0001 | P | 6.6 |
| 3 | <input type="checkbox"/> | 0.625 | 0.278 | 2031.05 | 0.0001 | P | 2.5 |
| 4 | <input type="checkbox"/> | 1.250 | 2.137 | 3184.33 | 0.0002 | P | 10.6 |
| 5 | <input type="checkbox"/> | 6.250 | 4.966 | 4754.38 | 0.0003 | P | 2.3 |
| 6 | <input type="checkbox"/> | 12.500 | 11.807 | 8886.51 | 0.0005 | P | 0.8 |
| 7 | <input type="checkbox"/> | 125.000 | 110.323 | 65688.12 | 0.0039 | P | 1.9 |
| 8 | <input type="checkbox"/> | 625.000 | 541.283 | 321802.05 | 0.0188 | P | 5.4 |
| 9 | <input type="checkbox"/> | 1250.000 | 1177.920 | 695109.84 | 0.0408 | P | 1.6 |
| 10 | <input type="checkbox"/> | 2500.000 | 2557.710 | 1481995.49 | 0.0885 | A | 5.5 |
| 11 | <input type="checkbox"/> | | | 4381.02 | 0.0003 | P | 4.5 |

$y = 3.4577E-005 * x + 1.0744E-004$

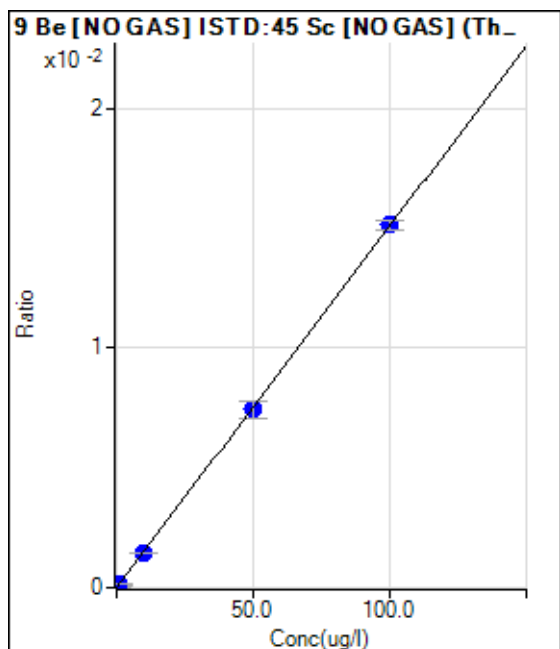
R = 0.9989

DL = 0.1832

BEC = 3.107

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 5.67 | 0.0000 | P | 72.0 |
| 2 | <input type="checkbox"/> | 0.025 | 0.012 | 8.67 | 0.0000 | P | 21.5 |
| 3 | <input type="checkbox"/> | 0.050 | 0.074 | 26.00 | 0.0000 | P | 20.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.104 | 37.99 | 0.0000 | P | 32.5 |
| 5 | <input type="checkbox"/> | 0.500 | 0.447 | 131.31 | 0.0001 | P | 13.1 |
| 6 | <input type="checkbox"/> | 1.000 | 1.142 | 328.27 | 0.0002 | P | 7.0 |
| 7 | <input type="checkbox"/> | 10.000 | 9.589 | 2776.34 | 0.0014 | P | 3.2 |
| 8 | <input type="checkbox"/> | 50.000 | 49.257 | 14537.12 | 0.0074 | P | 9.0 |
| 9 | <input type="checkbox"/> | 100.000 | 100.412 | 29851.32 | 0.0151 | P | 2.7 |
| 10 | <input type="checkbox"/> | | | 292077.64 | 0.1464 | P | 2.8 |
| 11 | <input type="checkbox"/> | | | 46.32 | 0.0000 | P | 34.0 |

$y = 1.5061E-004 * x + 3.0734E-006$

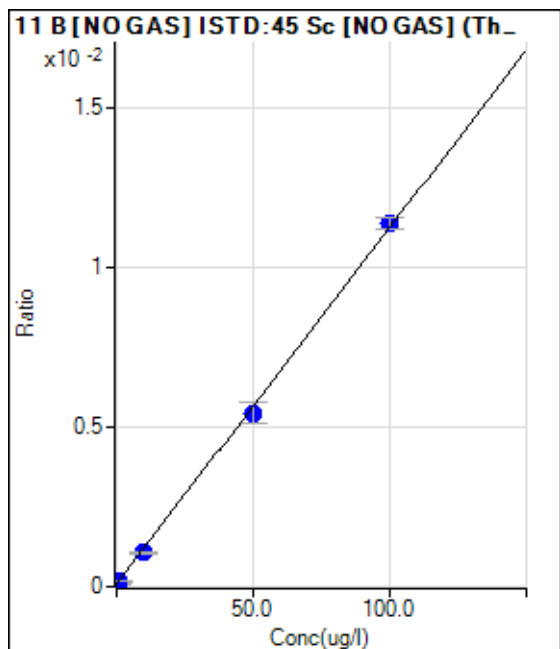
R = 1.0000

DL = 0.04406

BEC = 0.02041

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 163.30 | 0.0001 | P | 4.6 |
| 2 | <input type="checkbox"/> | | | 149.97 | 0.0001 | P | 18.1 |
| 3 | <input type="checkbox"/> | 0.050 | -0.046 | 151.30 | 0.0001 | P | 8.9 |
| 4 | <input type="checkbox"/> | 0.100 | 0.917 | 387.93 | 0.0002 | P | 20.3 |
| 5 | <input type="checkbox"/> | 0.500 | 0.188 | 201.96 | 0.0001 | P | 18.6 |
| 6 | <input type="checkbox"/> | 1.000 | 0.741 | 319.27 | 0.0002 | P | 5.1 |
| 7 | <input type="checkbox"/> | 10.000 | 8.856 | 2060.39 | 0.0011 | P | 5.6 |
| 8 | <input type="checkbox"/> | 50.000 | 47.982 | 10626.50 | 0.0054 | P | 12.3 |
| 9 | <input type="checkbox"/> | 100.000 | 101.127 | 22416.00 | 0.0114 | P | 3.3 |
| 10 | <input type="checkbox"/> | | | 210425.69 | 0.1054 | P | 2.1 |
| 11 | <input type="checkbox"/> | | | 1341.79 | 0.0007 | P | 2.3 |

$y = 1.1146E-004 * x + 8.7509E-005$

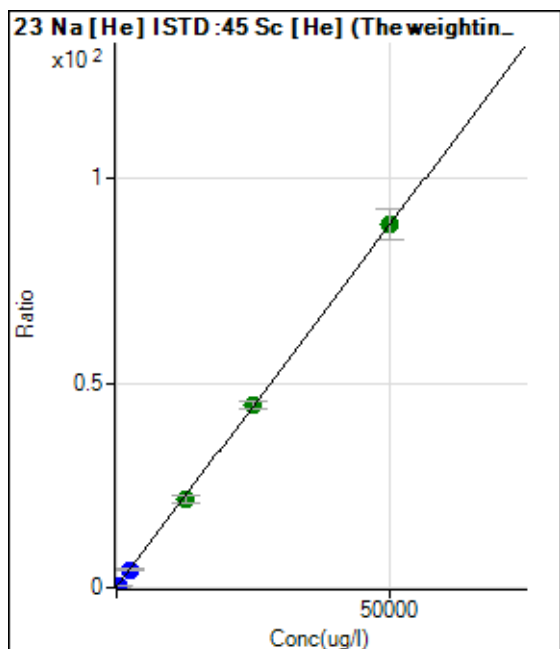
R = 0.9996

DL = 0.1077

BEC = 0.7851

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 6888.07 | 0.1369 | P | 2.2 |
| 2 | <input type="checkbox"/> | 6.250 | 2.419 | 7191.53 | 0.1412 | P | 2.7 |
| 3 | <input type="checkbox"/> | 12.500 | 11.980 | 8026.34 | 0.1581 | P | 6.6 |
| 4 | <input type="checkbox"/> | 25.000 | 28.077 | 10190.84 | 0.1866 | P | 4.3 |
| 5 | <input type="checkbox"/> | 125.000 | 123.450 | 18202.96 | 0.3555 | P | 2.6 |
| 6 | <input type="checkbox"/> | 250.000 | 276.556 | 31766.01 | 0.6266 | P | 1.5 |
| 7 | <input type="checkbox"/> | 2500.000 | 2436.365 | 238218.55 | 4.4506 | P | 3.1 |
| 8 | <input type="checkbox"/> | 12500.000 | 12027.441 | 1151302.24 | 21.4322 | A | 8.7 |
| 9 | <input type="checkbox"/> | 25000.000 | 25113.130 | 2451385.92 | 44.6011 | A | 4.0 |
| 10 | <input type="checkbox"/> | 50000.000 | 50064.627 | 4610801.77 | 88.7791 | A | 8.6 |
| 11 | <input type="checkbox"/> | | | 13090.55 | 0.2371 | P | 0.9 |

$y = 0.0018 * x + 0.1369$

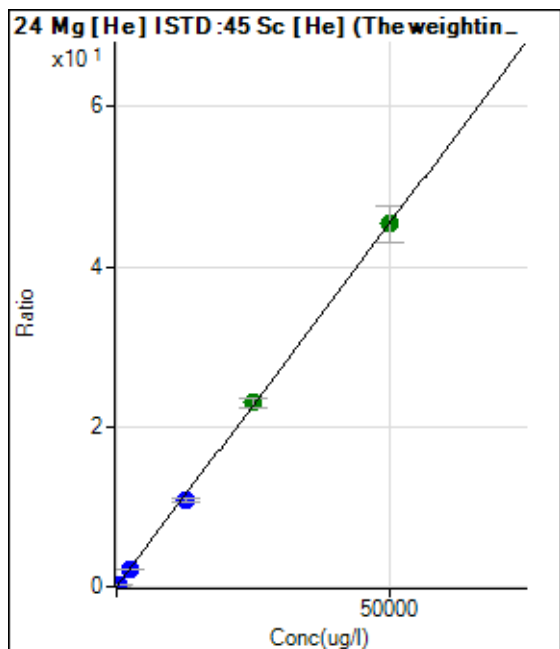
R = 1.0000

DL = 5.137

BEC = 77.33

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-----------|------------|------------|---------|------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 13.31 | 0.0003 | P | 173.2 |
| 2 | <input type="checkbox"/> | 6.250 | 6.598 | 319.37 | 0.0063 | P | 21.6 |
| 3 | <input type="checkbox"/> | 12.500 | 12.814 | 602.16 | 0.0119 | P | 24.1 |
| 4 | <input type="checkbox"/> | 25.000 | 30.157 | 1510.42 | 0.0276 | P | 7.7 |
| 5 | <input type="checkbox"/> | 125.000 | 118.910 | 5536.64 | 0.1082 | P | 6.0 |
| 6 | <input type="checkbox"/> | 250.000 | 283.540 | 13035.84 | 0.2576 | P | 8.5 |
| 7 | <input type="checkbox"/> | 2500.000 | 2340.894 | 113664.56 | 2.1245 | P | 4.6 |
| 8 | <input type="checkbox"/> | 12500.000 | 11891.085 | 579537.13 | 10.7907 | P | 4.7 |
| 9 | <input type="checkbox"/> | 25000.000 | 25406.833 | 1266941.79 | 23.0555 | A | 5.2 |
| 10 | <input type="checkbox"/> | 50000.000 | 49956.613 | 2352638.64 | 45.3331 | A | 10.1 |
| 11 | <input type="checkbox"/> | | | 232.87 | 0.0042 | P | 31.3 |

$y = 9.0744E-004 * x + 2.6324E-004$

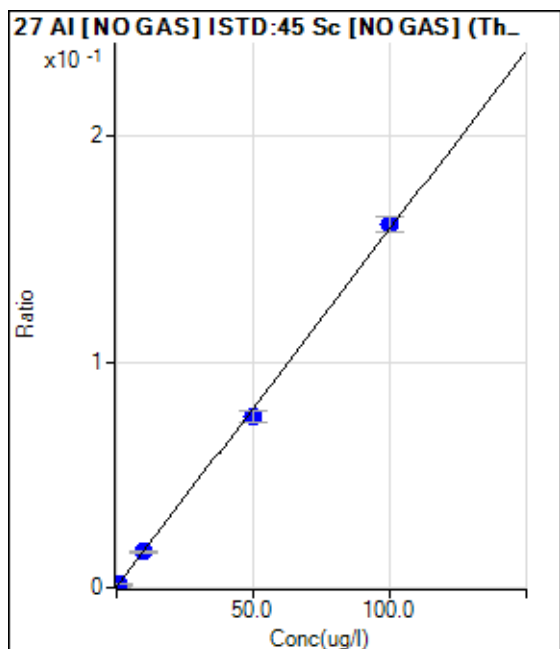
R = 0.9999

DL = 1.507

BEC = 0.2901

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 636.68 | 0.0003 | P | 9.6 |
| 2 | <input type="checkbox"/> | | | 595.57 | 0.0003 | P | 10.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.031 | 716.69 | 0.0004 | P | 4.2 |
| 4 | <input type="checkbox"/> | 0.100 | 0.285 | 1628.98 | 0.0008 | P | 8.8 |
| 5 | <input type="checkbox"/> | 0.500 | 0.475 | 2043.47 | 0.0011 | P | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 | 1.057 | 3787.11 | 0.0020 | P | 0.8 |
| 7 | <input type="checkbox"/> | 10.000 | 9.772 | 30359.10 | 0.0158 | P | 3.3 |
| 8 | <input type="checkbox"/> | 50.000 | 47.574 | 148576.62 | 0.0757 | P | 6.2 |
| 9 | <input type="checkbox"/> | 100.000 | 101.235 | 317171.03 | 0.1608 | P | 4.1 |
| 10 | <input type="checkbox"/> | | | 2971298.01 | 1.4892 | A | 3.1 |
| 11 | <input type="checkbox"/> | | | 26249.07 | 0.0135 | P | 2.9 |

$y = 0.0016 * x + 3.4183E-004$

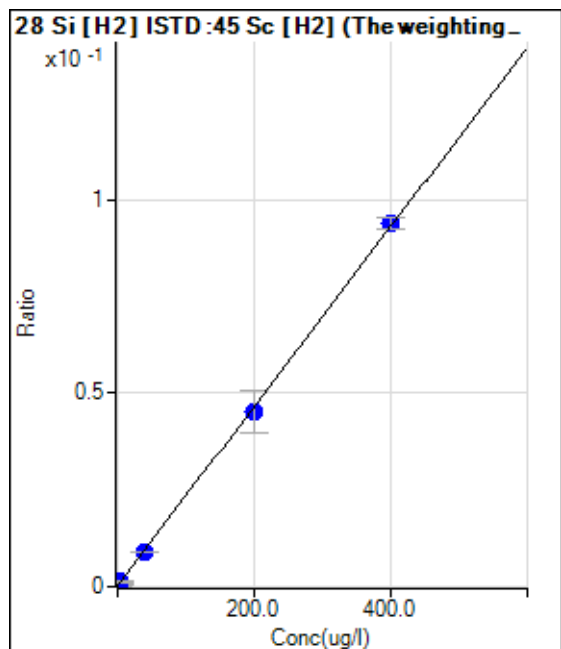
R = 0.9996

DL = 0.062

BEC = 0.2157

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|---------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 18.67 | 0.0002 | P | 18.4 |
| 2 | <input type="checkbox"/> | | | 21.33 | 0.0003 | P | 46.4 |
| 3 | <input type="checkbox"/> | 0.200 | 0.773 | 33.99 | 0.0004 | P | 49.4 |
| 4 | <input type="checkbox"/> | 0.400 | 0.930 | 38.66 | 0.0004 | P | 6.7 |
| 5 | <input type="checkbox"/> | 2.000 | 1.896 | 55.32 | 0.0007 | P | 25.4 |
| 6 | <input type="checkbox"/> | 4.000 | 4.531 | 105.98 | 0.0013 | P | 10.7 |
| 7 | <input type="checkbox"/> | 40.000 | 37.494 | 772.53 | 0.0089 | P | 1.9 |
| 8 | <input type="checkbox"/> | 200.000 | 193.666 | 4075.03 | 0.0451 | P | 24.1 |
| 9 | <input type="checkbox"/> | 400.000 | 403.412 | 8514.45 | 0.0936 | P | 3.2 |
| 10 | <input type="checkbox"/> | | | 66.66 | 0.0008 | P | 6.0 |
| 11 | <input type="checkbox"/> | | | 27.99 | 0.0003 | P | 22.3 |

$y = 2.3156E-004 * x + 2.2663E-004$

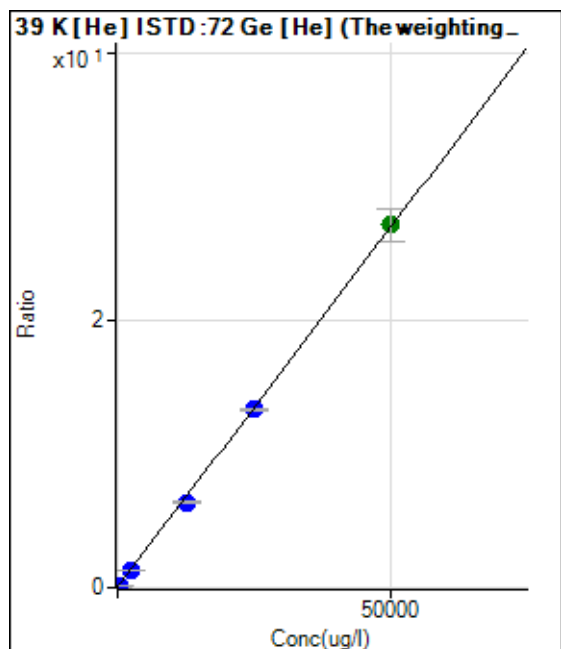
R = 0.9998

DL = 0.5417

BEC = 0.9787

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 2671.34 | 0.0354 | P | 3.8 |
| 2 | <input type="checkbox"/> | 6.250 | 3.803 | 2873.60 | 0.0374 | P | 9.0 |
| 3 | <input type="checkbox"/> | 12.500 | 12.098 | 3275.33 | 0.0419 | P | 4.0 |
| 4 | <input type="checkbox"/> | 25.000 | 30.697 | 4180.54 | 0.0520 | P | 1.4 |
| 5 | <input type="checkbox"/> | 125.000 | 119.152 | 7770.71 | 0.0997 | P | 4.7 |
| 6 | <input type="checkbox"/> | 250.000 | 245.317 | 13145.16 | 0.1677 | P | 3.1 |
| 7 | <input type="checkbox"/> | 2500.000 | 2347.001 | 100098.52 | 1.3011 | P | 3.6 |
| 8 | <input type="checkbox"/> | 12500.000 | 11818.011 | 514585.14 | 6.4086 | P | 1.0 |
| 9 | <input type="checkbox"/> | 25000.000 | 24664.679 | 1089567.74 | 13.3365 | P | 0.6 |
| 10 | <input type="checkbox"/> | 50000.000 | 50345.843 | 2093185.14 | 27.1857 | A | 8.7 |
| 11 | <input type="checkbox"/> | | | 25288.89 | 0.3081 | P | 2.3 |

$y = 5.3928E-004 * x + 0.0354$

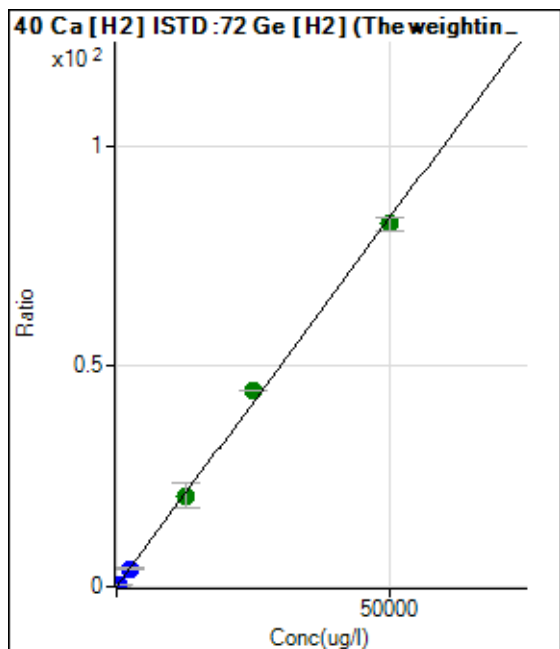
R = 0.9999

DL = 7.489

BEC = 65.64

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 564.73 | 0.0048 | P | 17.3 |
| 2 | <input type="checkbox"/> | 6.250 | 7.203 | 1917.51 | 0.0168 | P | 6.2 |
| 3 | <input type="checkbox"/> | 12.500 | 13.591 | 3235.39 | 0.0275 | P | 7.7 |
| 4 | <input type="checkbox"/> | 25.000 | 31.871 | 7044.70 | 0.0581 | P | 3.4 |
| 5 | <input type="checkbox"/> | 125.000 | 125.826 | 25162.98 | 0.2153 | P | 3.0 |
| 6 | <input type="checkbox"/> | 250.000 | 277.650 | 54513.35 | 0.4693 | P | 2.2 |
| 7 | <input type="checkbox"/> | 2500.000 | 2465.794 | 490797.02 | 4.1300 | P | 1.3 |
| 8 | <input type="checkbox"/> | 12500.000 | 12376.854 | 2558726.63 | 20.7109 | A | 25.8 |
| 9 | <input type="checkbox"/> | 25000.000 | 26655.154 | 5349149.08 | 44.5981 | A | 0.2 |
| 10 | <input type="checkbox"/> | 50000.000 | 49204.776 | 9959193.00 | 82.3230 | A | 3.6 |
| 11 | <input type="checkbox"/> | | | 2385.67 | 0.0190 | P | 8.5 |

$y = 0.0017 * x + 0.0048$

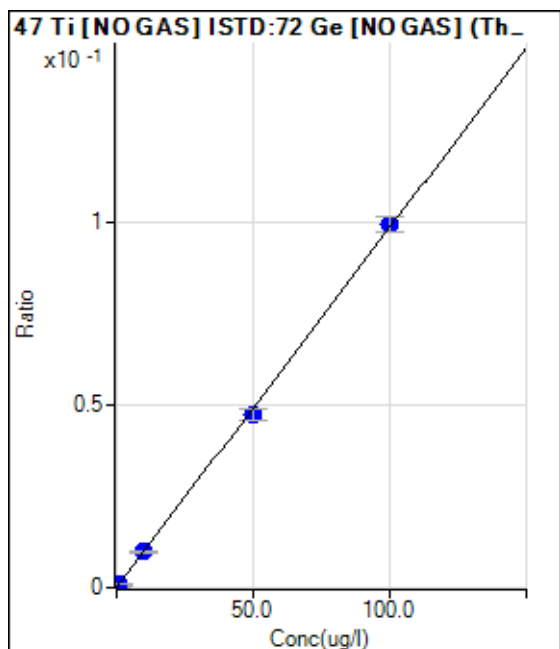
R = 0.9993

DL = 1.481

BEC = 2.853

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 23.32 | 0.0000 | P | 24.4 |
| 2 | <input type="checkbox"/> | 0.025 | 0.040 | 56.64 | 0.0001 | P | 10.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.073 | 83.29 | 0.0001 | P | 30.1 |
| 4 | <input type="checkbox"/> | 0.100 | 0.155 | 159.92 | 0.0002 | P | 8.8 |
| 5 | <input type="checkbox"/> | 0.500 | 0.517 | 443.12 | 0.0005 | P | 22.2 |
| 6 | <input type="checkbox"/> | 1.000 | 1.073 | 912.91 | 0.0011 | P | 11.7 |
| 7 | <input type="checkbox"/> | 10.000 | 10.074 | 8373.00 | 0.0100 | P | 5.9 |
| 8 | <input type="checkbox"/> | 50.000 | 48.278 | 41029.44 | 0.0476 | P | 6.6 |
| 9 | <input type="checkbox"/> | 100.000 | 100.853 | 86388.56 | 0.0995 | P | 4.1 |
| 10 | <input type="checkbox"/> | | | 4926.67 | 0.0058 | P | 4.6 |
| 11 | <input type="checkbox"/> | | | 73.30 | 0.0001 | P | 49.8 |

$y = 9.8638E-004 * x + 2.7563E-005$

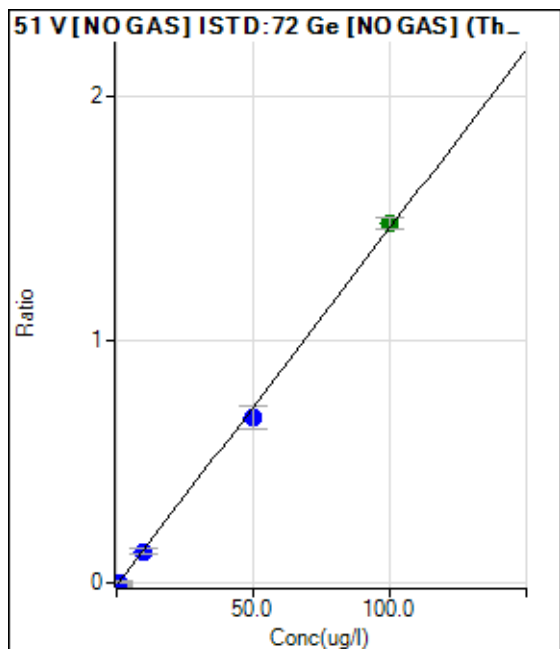
R = 0.9998

DL = 0.02042

BEC = 0.02794

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|---------|------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | -7327.59 | -0.0086 | P | -55.0 |
| 2 | <input type="checkbox"/> | | | -10942.60 | -0.0130 | P | -55.2 |
| 3 | <input type="checkbox"/> | 0.050 | -0.308 | -11025.42 | -0.0131 | P | -38.8 |
| 4 | <input type="checkbox"/> | 0.100 | -0.050 | -8452.23 | -0.0093 | P | -91.9 |
| 5 | <input type="checkbox"/> | 0.500 | 0.043 | -6583.91 | -0.0080 | P | -48.8 |
| 6 | <input type="checkbox"/> | 1.000 | 0.913 | 3955.09 | 0.0048 | P | 195.0 |
| 7 | <input type="checkbox"/> | 10.000 | 9.465 | 109251.67 | 0.1304 | P | 17.0 |
| 8 | <input type="checkbox"/> | 50.000 | 47.025 | 589142.58 | 0.6820 | P | 13.7 |
| 9 | <input type="checkbox"/> | 100.000 | 101.544 | 1287369.17 | 1.4827 | A | 3.3 |
| 10 | <input type="checkbox"/> | | | 13405754.74 | 15.9180 | A | 3.5 |
| 11 | <input type="checkbox"/> | | | -10382.31 | -0.0121 | P | -40.5 |

$y = 0.0147 * x - 0.0086$

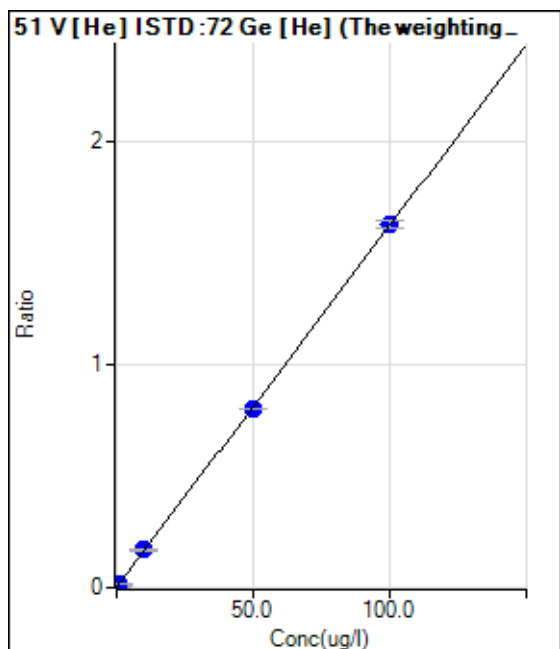
R = 0.9995

DL = 0.9674

BEC = -0.5859

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 83.33 | 0.0011 | P | 15.0 |
| 2 | <input type="checkbox"/> | | | 156.67 | 0.0020 | P | 15.7 |
| 3 | <input type="checkbox"/> | 0.050 | 0.084 | 192.23 | 0.0025 | P | 10.1 |
| 4 | <input type="checkbox"/> | 0.100 | 0.114 | 237.78 | 0.0030 | P | 24.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.488 | 703.35 | 0.0090 | P | 4.6 |
| 6 | <input type="checkbox"/> | 1.000 | 1.109 | 1498.97 | 0.0191 | P | 11.2 |
| 7 | <input type="checkbox"/> | 10.000 | 10.339 | 12985.00 | 0.1688 | P | 3.6 |
| 8 | <input type="checkbox"/> | 50.000 | 49.482 | 64549.37 | 0.8038 | P | 0.5 |
| 9 | <input type="checkbox"/> | 100.000 | 100.224 | 132916.55 | 1.6269 | P | 2.0 |
| 10 | <input type="checkbox"/> | | | 1347739.72 | 17.4941 | A | 8.0 |
| 11 | <input type="checkbox"/> | | | 256.67 | 0.0031 | P | 19.2 |

$y = 0.0162 * x + 0.0011$

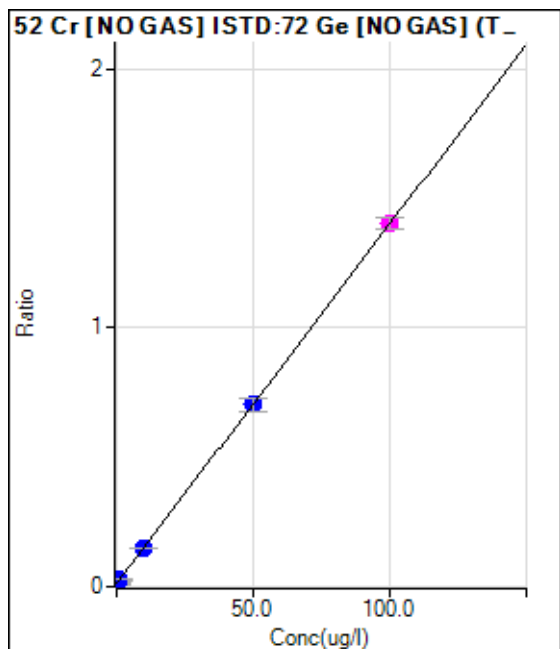
R = 1.0000

DL = 0.03074

BEC = 0.0681

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 9637.07 | 0.0114 | P | 5.1 |
| 2 | <input type="checkbox"/> | | | 9710.27 | 0.0115 | P | 3.4 |
| 3 | <input type="checkbox"/> | 0.050 | 0.076 | 10479.25 | 0.0125 | P | 2.5 |
| 4 | <input type="checkbox"/> | 0.100 | 0.041 | 10609.05 | 0.0120 | P | 4.7 |
| 5 | <input type="checkbox"/> | 0.500 | 0.561 | 15802.86 | 0.0192 | P | 2.7 |
| 6 | <input type="checkbox"/> | 1.000 | 1.086 | 22240.75 | 0.0265 | P | 3.6 |
| 7 | <input type="checkbox"/> | 10.000 | 9.859 | 124401.91 | 0.1482 | P | 3.2 |
| 8 | <input type="checkbox"/> | 50.000 | 49.762 | 604239.86 | 0.7018 | P | 6.8 |
| 9 | <input type="checkbox"/> | 100.000 | 100.132 | 1216072.12 | 1.4005 | M | 3.1 |
| 10 | <input type="checkbox"/> | | | 12421794.02 | 14.7448 | A | 2.4 |
| 11 | <input type="checkbox"/> | | | 11135.02 | 0.0129 | P | 5.3 |

$y = 0.0139 * x + 0.0114$

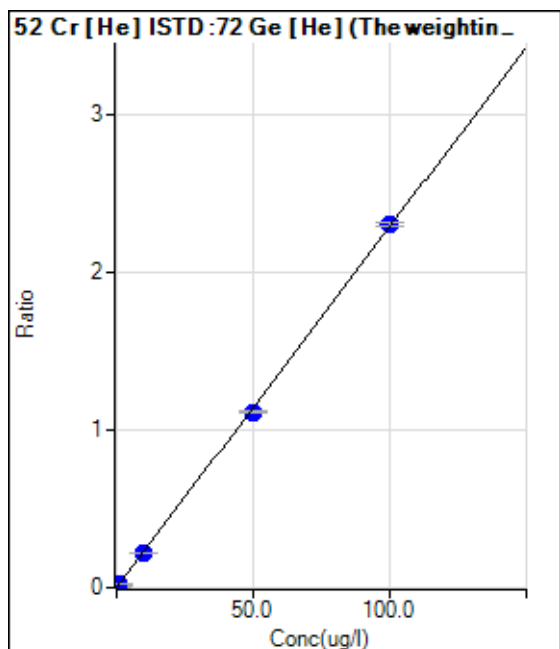
R = 1.0000

DL = 0.1251

BEC = 0.8218

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 136.40 | 0.0018 | P | 32.5 |
| 2 | <input type="checkbox"/> | | | 146.38 | 0.0019 | P | 33.5 |
| 3 | <input type="checkbox"/> | 0.050 | 0.066 | 259.49 | 0.0033 | P | 29.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.136 | 395.89 | 0.0049 | P | 0.5 |
| 5 | <input type="checkbox"/> | 0.500 | 0.484 | 1001.38 | 0.0128 | P | 21.0 |
| 6 | <input type="checkbox"/> | 1.000 | 1.188 | 2265.69 | 0.0289 | P | 10.3 |
| 7 | <input type="checkbox"/> | 10.000 | 9.712 | 17214.62 | 0.2236 | P | 1.6 |
| 8 | <input type="checkbox"/> | 50.000 | 48.760 | 89569.19 | 1.1155 | P | 1.9 |
| 9 | <input type="checkbox"/> | 100.000 | 100.647 | 187948.29 | 2.3006 | P | 1.1 |
| 10 | <input type="checkbox"/> | | | 1856579.95 | 24.1222 | A | 9.7 |
| 11 | <input type="checkbox"/> | | | 429.16 | 0.0052 | P | 22.0 |

$y = 0.0228 * x + 0.0018$

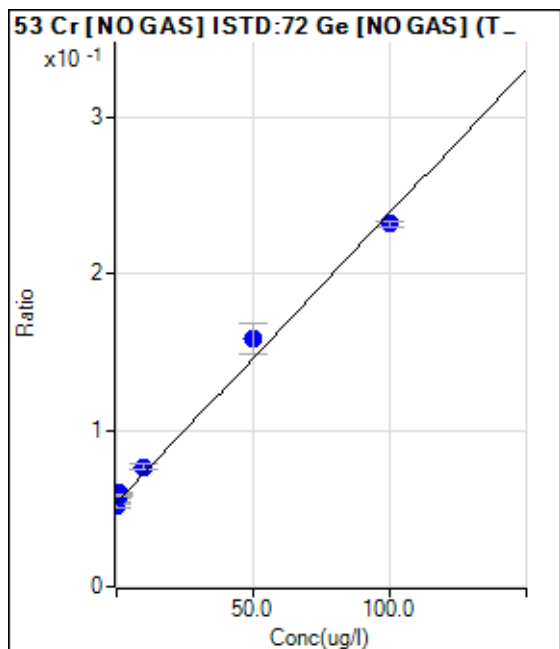
R = 0.9999

DL = 0.07704

BEC = 0.07902

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 45387.42 | 0.0537 | P | 1.1 |
| 2 | <input type="checkbox"/> | | | 48636.72 | 0.0578 | P | 1.8 |
| 3 | <input type="checkbox"/> | 0.050 | 1.974 | 48211.79 | 0.0573 | P | 1.7 |
| 4 | <input type="checkbox"/> | 0.100 | -1.117 | 45772.87 | 0.0516 | P | 6.7 |
| 5 | <input type="checkbox"/> | 0.500 | 3.211 | 49112.37 | 0.0596 | P | 2.3 |
| 6 | <input type="checkbox"/> | 1.000 | 2.410 | 48830.37 | 0.0581 | P | 1.8 |
| 7 | <input type="checkbox"/> | 10.000 | 12.450 | 64441.99 | 0.0767 | P | 5.5 |
| 8 | <input type="checkbox"/> | 50.000 | 56.844 | 136481.03 | 0.1588 | P | 12.1 |
| 9 | <input type="checkbox"/> | 100.000 | 96.306 | 201201.99 | 0.2317 | P | 1.5 |
| 10 | <input type="checkbox"/> | | | 1529958.66 | 1.8162 | A | 2.7 |
| 11 | <input type="checkbox"/> | | | 48248.66 | 0.0560 | P | 3.8 |

$y = 0.0018 * x + 0.0537$

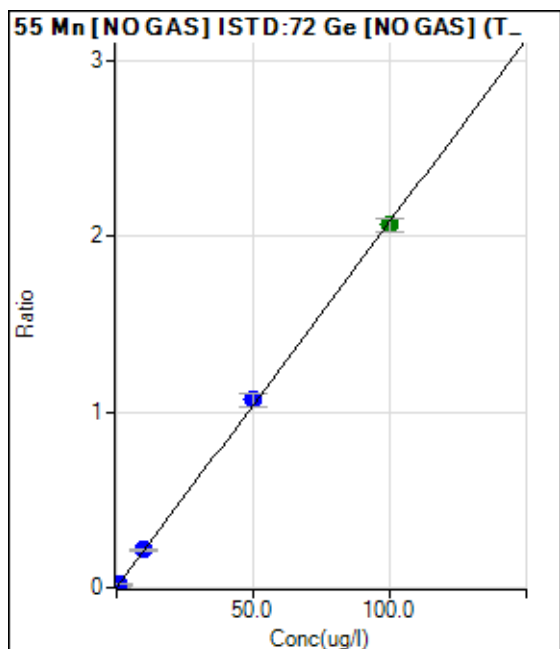
R = 0.9965

DL = 0.9934

BEC = 29.02

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 718.60 | 0.0008 | P | 17.7 |
| 2 | <input type="checkbox"/> | 0.025 | 0.020 | 1071.26 | 0.0013 | P | 8.7 |
| 3 | <input type="checkbox"/> | 0.050 | 0.053 | 1640.17 | 0.0019 | P | 3.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.123 | 3027.64 | 0.0034 | P | 9.8 |
| 5 | <input type="checkbox"/> | 0.500 | 0.512 | 9467.33 | 0.0115 | P | 5.4 |
| 6 | <input type="checkbox"/> | 1.000 | 1.143 | 20661.89 | 0.0246 | P | 3.6 |
| 7 | <input type="checkbox"/> | 10.000 | 10.226 | 179050.75 | 0.2133 | P | 4.1 |
| 8 | <input type="checkbox"/> | 50.000 | 51.418 | 920623.16 | 1.0692 | P | 6.7 |
| 9 | <input type="checkbox"/> | 100.000 | 99.267 | 1791371.05 | 2.0634 | A | 3.6 |
| 10 | <input type="checkbox"/> | | | 18279414.97 | 21.7001 | A | 2.0 |
| 11 | <input type="checkbox"/> | | | 2818.01 | 0.0033 | P | 10.6 |

$y = 0.0208 * x + 8.4802E-004$

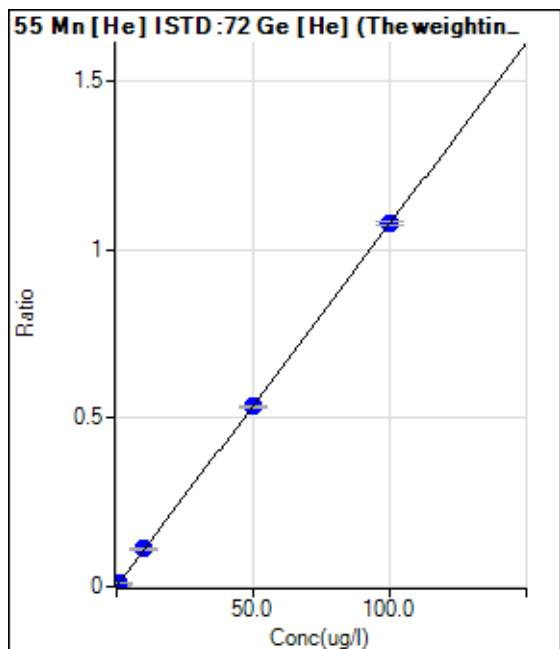
R = 0.9999

DL = 0.02162

BEC = 0.04081

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 5.00 | 0.0001 | P | 91.4 |
| 2 | <input type="checkbox"/> | 0.025 | 0.027 | 27.33 | 0.0004 | P | 3.6 |
| 3 | <input type="checkbox"/> | 0.050 | 0.053 | 49.67 | 0.0006 | P | 23.8 |
| 4 | <input type="checkbox"/> | 0.100 | 0.121 | 110.01 | 0.0014 | P | 9.5 |
| 5 | <input type="checkbox"/> | 0.500 | 0.478 | 406.05 | 0.0052 | P | 7.5 |
| 6 | <input type="checkbox"/> | 1.000 | 1.111 | 941.45 | 0.0120 | P | 1.8 |
| 7 | <input type="checkbox"/> | 10.000 | 10.463 | 8654.42 | 0.1126 | P | 5.2 |
| 8 | <input type="checkbox"/> | 50.000 | 49.726 | 42948.44 | 0.5348 | P | 0.8 |
| 9 | <input type="checkbox"/> | 100.000 | 100.090 | 87936.16 | 1.0764 | P | 1.2 |
| 10 | <input type="checkbox"/> | | | 871946.80 | 11.3261 | P | 8.9 |
| 11 | <input type="checkbox"/> | | | 89.34 | 0.0011 | P | 18.0 |

$y = 0.0108 * x + 6.6330E-005$

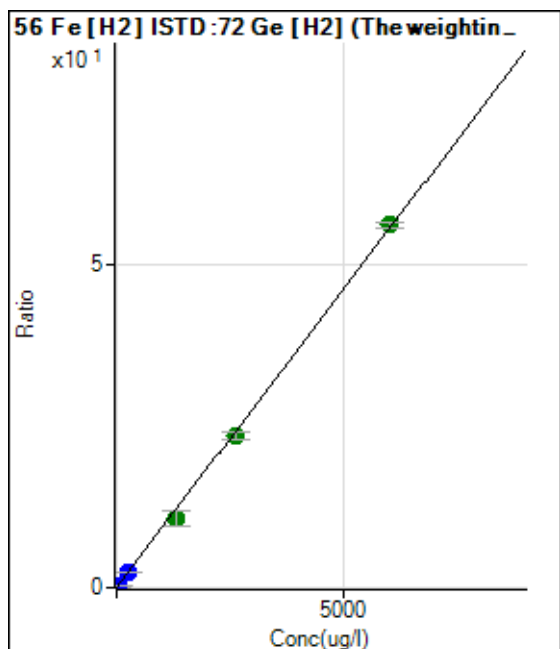
R = 1.0000

DL = 0.01692

BEC = 0.006168

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 346.51 | 0.0029 | P | 18.0 |
| 2 | <input type="checkbox"/> | 0.650 | 0.627 | 994.54 | 0.0087 | P | 11.5 |
| 3 | <input type="checkbox"/> | 1.300 | 1.241 | 1697.59 | 0.0144 | P | 7.4 |
| 4 | <input type="checkbox"/> | 2.600 | 3.092 | 3826.91 | 0.0315 | P | 5.5 |
| 5 | <input type="checkbox"/> | 13.000 | 12.815 | 14197.38 | 0.1215 | P | 2.4 |
| 6 | <input type="checkbox"/> | 26.000 | 27.311 | 29688.39 | 0.2556 | P | 4.4 |
| 7 | <input type="checkbox"/> | 260.000 | 244.756 | 269396.01 | 2.2672 | P | 2.6 |
| 8 | <input type="checkbox"/> | 1300.000 | 1159.729 | 1329085.85 | 10.7317 | A | 23.9 |
| 9 | <input type="checkbox"/> | 2600.000 | 2528.140 | 2803486.34 | 23.3911 | A | 4.9 |
| 10 | <input type="checkbox"/> | 6000.000 | 6062.186 | 6778809.85 | 56.0850 | A | 1.3 |
| 11 | <input type="checkbox"/> | | | 1685.93 | 0.0134 | P | 4.1 |

$y = 0.0093 * x + 0.0029$

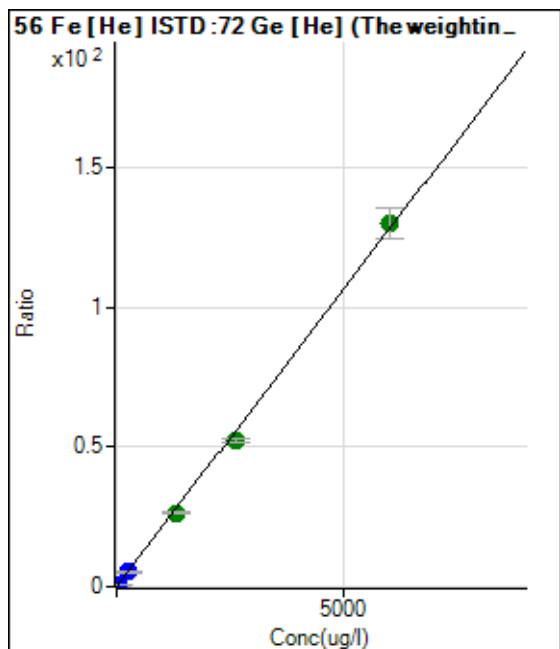
R = 0.9996

DL = 0.1713

BEC = 0.3167

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|----------|------------|-------------|----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 586.39 | 0.0078 | P | 2.2 |
| 2 | <input type="checkbox"/> | 0.650 | 0.633 | 1634.28 | 0.0213 | P | 6.1 |
| 3 | <input type="checkbox"/> | 1.300 | 1.406 | 2950.49 | 0.0378 | P | 2.6 |
| 4 | <input type="checkbox"/> | 2.600 | 3.146 | 6026.46 | 0.0749 | P | 4.2 |
| 5 | <input type="checkbox"/> | 13.000 | 12.566 | 21511.54 | 0.2759 | P | 2.2 |
| 6 | <input type="checkbox"/> | 26.000 | 25.800 | 43756.62 | 0.5584 | P | 3.8 |
| 7 | <input type="checkbox"/> | 260.000 | 245.817 | 404031.18 | 5.2535 | P | 3.8 |
| 8 | <input type="checkbox"/> | 1300.000 | 1229.257 | 2107282.64 | 26.2403 | A | 2.6 |
| 9 | <input type="checkbox"/> | 2600.000 | 2440.470 | 4255076.90 | 52.0878 | A | 2.9 |
| 10 | <input type="checkbox"/> | 6000.000 | 6085.073 | 10000970.76 | 129.8642 | A | 8.5 |
| 11 | <input type="checkbox"/> | | | 2538.96 | 0.0309 | P | 6.6 |

$y = 0.0213 * x + 0.0078$

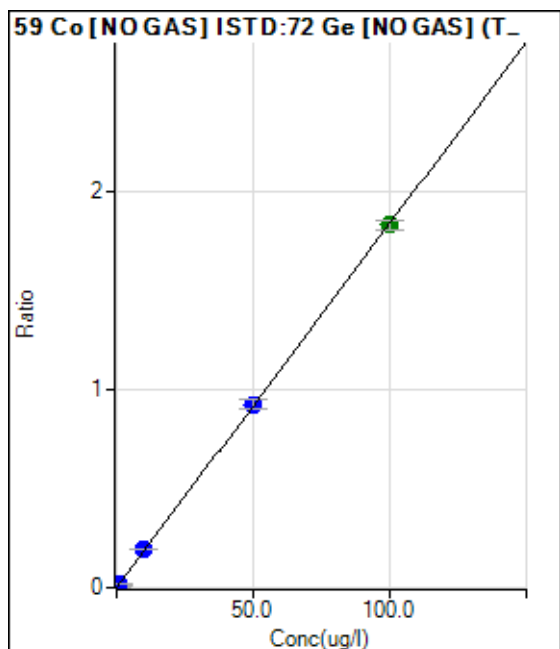
R = 0.9995

DL = 0.02409

BEC = 0.3641

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 69.86 | 0.0001 | P | 89.2 |
| 2 | <input type="checkbox"/> | 0.025 | 0.018 | 345.98 | 0.0004 | P | 6.2 |
| 3 | <input type="checkbox"/> | 0.050 | 0.051 | 855.00 | 0.0010 | P | 13.0 |
| 4 | <input type="checkbox"/> | 0.100 | 0.114 | 1922.98 | 0.0022 | P | 15.4 |
| 5 | <input type="checkbox"/> | 0.500 | 0.524 | 7972.85 | 0.0097 | P | 5.6 |
| 6 | <input type="checkbox"/> | 1.000 | 1.151 | 17784.26 | 0.0212 | P | 2.9 |
| 7 | <input type="checkbox"/> | 10.000 | 10.470 | 161177.06 | 0.1919 | P | 2.4 |
| 8 | <input type="checkbox"/> | 50.000 | 50.447 | 796732.62 | 0.9245 | P | 5.0 |
| 9 | <input type="checkbox"/> | 100.000 | 99.728 | 1586745.27 | 1.8276 | A | 2.4 |
| 10 | <input type="checkbox"/> | | | 15848731.70 | 18.8135 | A | 0.9 |
| 11 | <input type="checkbox"/> | | | 1566.99 | 0.0018 | P | 8.0 |

$y = 0.0183 * x + 8.3706E-005$

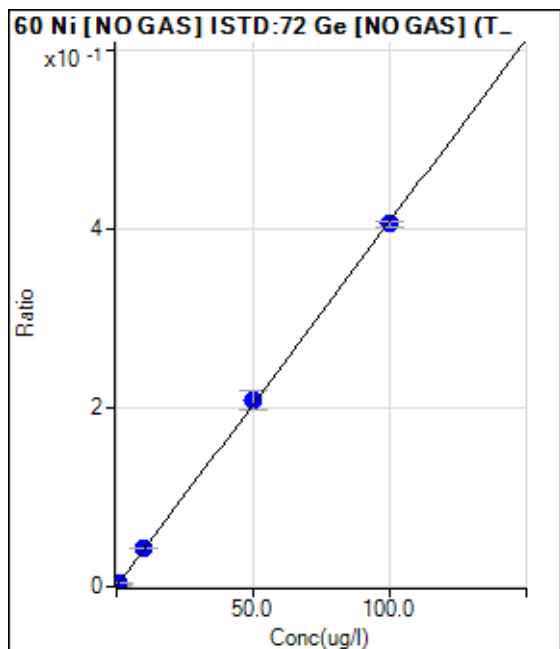
R = 1.0000

DL = 0.01223

BEC = 0.004568

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 63.21 | 0.0001 | P | 23.2 |
| 2 | <input type="checkbox"/> | 0.025 | 0.032 | 172.99 | 0.0002 | P | 27.7 |
| 3 | <input type="checkbox"/> | 0.050 | 0.049 | 229.55 | 0.0003 | P | 13.3 |
| 4 | <input type="checkbox"/> | 0.100 | 0.117 | 492.37 | 0.0006 | P | 8.7 |
| 5 | <input type="checkbox"/> | 0.500 | 0.559 | 1939.61 | 0.0024 | P | 6.0 |
| 6 | <input type="checkbox"/> | 1.000 | 1.184 | 4119.03 | 0.0049 | P | 4.4 |
| 7 | <input type="checkbox"/> | 10.000 | 10.545 | 36183.84 | 0.0431 | P | 4.2 |
| 8 | <input type="checkbox"/> | 50.000 | 51.103 | 179533.78 | 0.2086 | P | 10.1 |
| 9 | <input type="checkbox"/> | 100.000 | 99.392 | 352183.29 | 0.4056 | P | 1.7 |
| 10 | <input type="checkbox"/> | | | 3424739.05 | 4.0657 | A | 1.5 |
| 11 | <input type="checkbox"/> | | | 701.97 | 0.0008 | P | 22.0 |

$y = 0.0041 * x + 7.4605E-005$

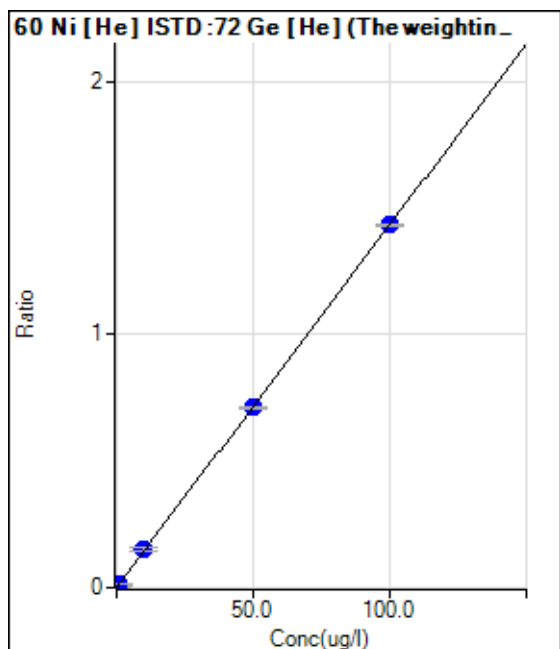
R = 0.9999

DL = 0.01272

BEC = 0.01828

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 27.78 | 0.0004 | P | 72.1 |
| 2 | <input type="checkbox"/> | 0.025 | 0.022 | 52.22 | 0.0007 | P | 22.5 |
| 3 | <input type="checkbox"/> | 0.050 | 0.044 | 77.78 | 0.0010 | P | 26.9 |
| 4 | <input type="checkbox"/> | 0.100 | 0.091 | 134.45 | 0.0017 | P | 12.6 |
| 5 | <input type="checkbox"/> | 0.500 | 0.508 | 595.57 | 0.0076 | P | 11.4 |
| 6 | <input type="checkbox"/> | 1.000 | 1.130 | 1296.73 | 0.0165 | P | 5.0 |
| 7 | <input type="checkbox"/> | 10.000 | 10.544 | 11618.53 | 0.1513 | P | 8.7 |
| 8 | <input type="checkbox"/> | 50.000 | 49.731 | 57191.59 | 0.7122 | P | 0.6 |
| 9 | <input type="checkbox"/> | 100.000 | 100.079 | 117066.10 | 1.4329 | P | 0.3 |
| 10 | <input type="checkbox"/> | | | 1145632.90 | 14.8676 | P | 7.5 |
| 11 | <input type="checkbox"/> | | | 225.56 | 0.0028 | P | 22.7 |

$y = 0.0143 * x + 3.6801E-004$

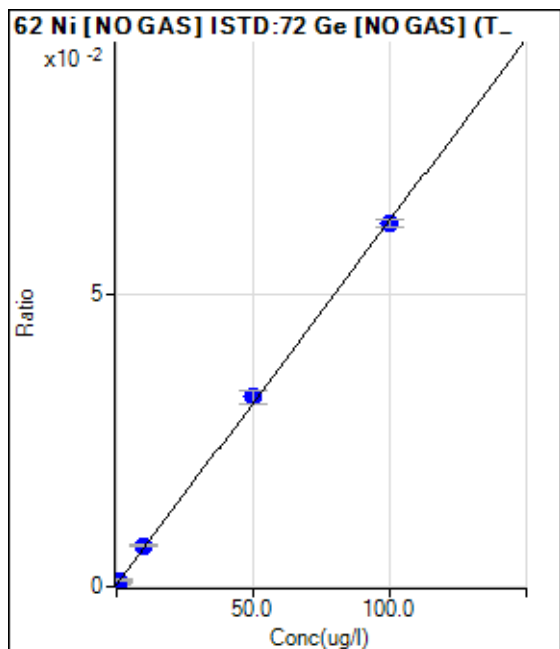
R = 1.0000

DL = 0.05558

BEC = 0.02571

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 279.45 | 0.0003 | P | 20.7 |
| 2 | <input type="checkbox"/> | 0.025 | 0.124 | 342.66 | 0.0004 | P | 2.5 |
| 3 | <input type="checkbox"/> | 0.050 | 0.220 | 392.56 | 0.0005 | P | 14.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.311 | 465.76 | 0.0005 | P | 5.4 |
| 5 | <input type="checkbox"/> | 0.500 | 0.675 | 618.79 | 0.0008 | P | 18.7 |
| 6 | <input type="checkbox"/> | 1.000 | 1.321 | 968.12 | 0.0012 | P | 16.9 |
| 7 | <input type="checkbox"/> | 10.000 | 10.818 | 5945.99 | 0.0071 | P | 6.3 |
| 8 | <input type="checkbox"/> | 50.000 | 51.518 | 27971.41 | 0.0325 | P | 7.7 |
| 9 | <input type="checkbox"/> | 100.000 | 99.155 | 54033.43 | 0.0622 | P | 2.1 |
| 10 | <input type="checkbox"/> | | | 528696.83 | 0.6276 | P | 1.6 |
| 11 | <input type="checkbox"/> | | | 439.14 | 0.0005 | P | 13.3 |

$y = 6.2428E-004 * x + 3.2977E-004$

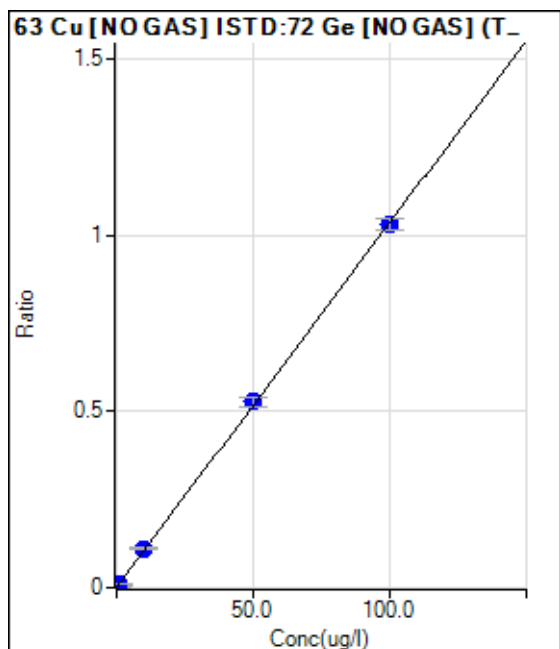
R = 0.9998

DL = 0.3275

BEC = 0.5282

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 469.91 | 0.0006 | P | 11.0 |
| 2 | <input type="checkbox"/> | 0.025 | 0.003 | 489.24 | 0.0006 | P | 2.3 |
| 3 | <input type="checkbox"/> | 0.050 | 0.026 | 690.55 | 0.0008 | P | 4.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.127 | 1656.43 | 0.0019 | P | 7.8 |
| 5 | <input type="checkbox"/> | 0.500 | 0.522 | 4905.76 | 0.0060 | P | 3.0 |
| 6 | <input type="checkbox"/> | 1.000 | 1.200 | 10879.38 | 0.0130 | P | 2.9 |
| 7 | <input type="checkbox"/> | 10.000 | 10.656 | 92930.05 | 0.1107 | P | 2.4 |
| 8 | <input type="checkbox"/> | 50.000 | 50.867 | 453206.89 | 0.5262 | P | 6.1 |
| 9 | <input type="checkbox"/> | 100.000 | 99.499 | 893125.13 | 1.0287 | P | 3.3 |
| 10 | <input type="checkbox"/> | | | 8318686.07 | 9.8770 | A | 2.5 |
| 11 | <input type="checkbox"/> | | | 1967.07 | 0.0023 | P | 4.1 |

$y = 0.0103 * x + 5.5546E-004$

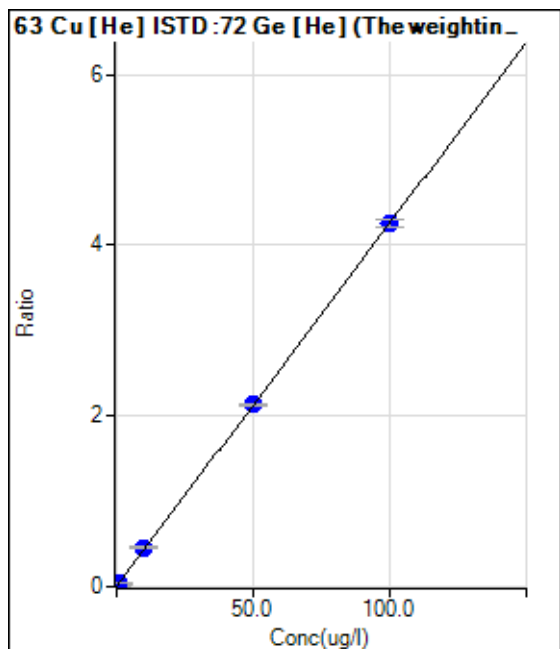
R = 0.9999

DL = 0.01781

BEC = 0.05375

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 198.29 | 0.0026 | P | 2.3 |
| 2 | <input type="checkbox"/> | 0.025 | -0.006 | 182.30 | 0.0024 | P | 14.0 |
| 3 | <input type="checkbox"/> | 0.050 | 0.027 | 295.28 | 0.0038 | P | 4.0 |
| 4 | <input type="checkbox"/> | 0.100 | 0.123 | 630.22 | 0.0078 | P | 2.8 |
| 5 | <input type="checkbox"/> | 0.500 | 0.475 | 1778.74 | 0.0228 | P | 4.1 |
| 6 | <input type="checkbox"/> | 1.000 | 1.159 | 4065.02 | 0.0519 | P | 4.4 |
| 7 | <input type="checkbox"/> | 10.000 | 10.638 | 34973.86 | 0.4547 | P | 3.6 |
| 8 | <input type="checkbox"/> | 50.000 | 50.022 | 170910.11 | 2.1285 | P | 0.9 |
| 9 | <input type="checkbox"/> | 100.000 | 99.924 | 347139.46 | 4.2493 | P | 2.1 |
| 10 | <input type="checkbox"/> | | | 3300231.53 | 42.8200 | A | 7.2 |
| 11 | <input type="checkbox"/> | | | 735.87 | 0.0090 | P | 7.5 |

$y = 0.0425 * x + 0.0026$

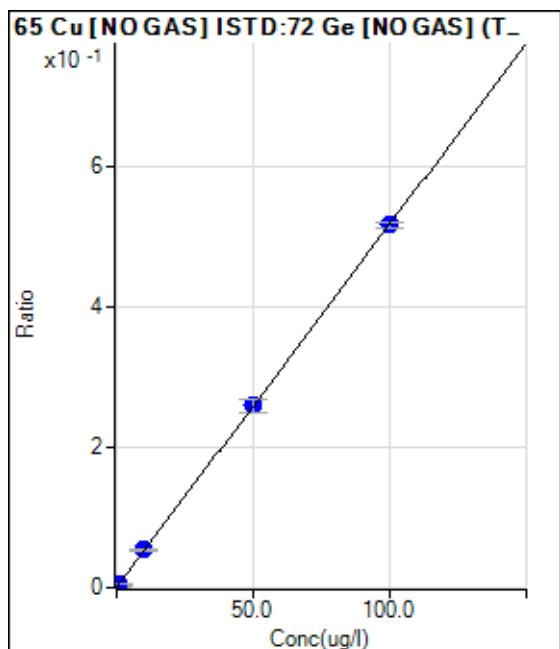
R = 1.0000

DL = 0.004251

BEC = 0.06182

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 238.62 | 0.0003 | P | 14.0 |
| 2 | <input type="checkbox"/> | 0.025 | 0.000 | 236.62 | 0.0003 | P | 5.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.025 | 347.27 | 0.0004 | P | 6.2 |
| 4 | <input type="checkbox"/> | 0.100 | 0.115 | 779.87 | 0.0009 | P | 2.8 |
| 5 | <input type="checkbox"/> | 0.500 | 0.511 | 2405.70 | 0.0029 | P | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 | 1.153 | 5236.46 | 0.0062 | P | 4.1 |
| 7 | <input type="checkbox"/> | 10.000 | 10.453 | 45545.19 | 0.0543 | P | 3.9 |
| 8 | <input type="checkbox"/> | 50.000 | 50.069 | 222833.75 | 0.2588 | P | 7.3 |
| 9 | <input type="checkbox"/> | 100.000 | 99.918 | 448178.65 | 0.5162 | P | 1.6 |
| 10 | <input type="checkbox"/> | | | 4118243.51 | 4.8900 | A | 3.0 |
| 11 | <input type="checkbox"/> | | | 1013.17 | 0.0012 | P | 0.7 |

$y = 0.0052 * x + 2.8242E-004$

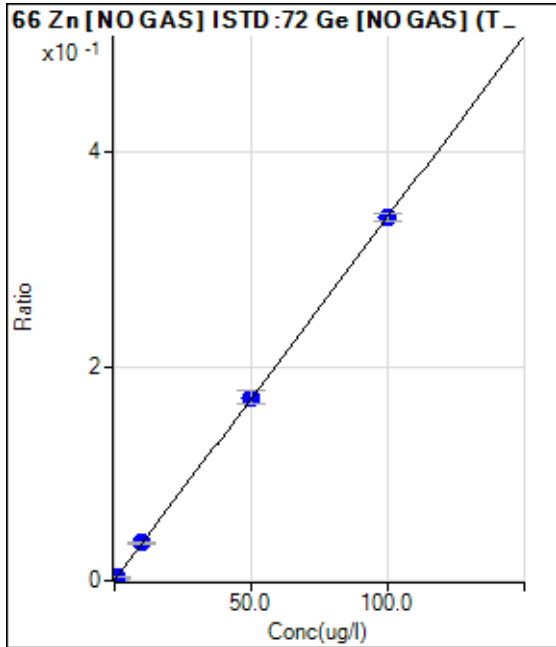
R = 1.0000

DL = 0.02296

BEC = 0.0547

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 489.00 | 0.0006 | P | 32.6 |
| 2 | <input type="checkbox"/> | | | 469.03 | 0.0006 | P | 15.4 |
| 3 | <input type="checkbox"/> | 0.050 | 0.020 | 545.49 | 0.0006 | P | 17.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.164 | 1007.94 | 0.0011 | P | 4.0 |
| 5 | <input type="checkbox"/> | 0.500 | 0.457 | 1756.46 | 0.0021 | P | 13.8 |
| 6 | <input type="checkbox"/> | 1.000 | 1.085 | 3576.23 | 0.0043 | P | 4.8 |
| 7 | <input type="checkbox"/> | 10.000 | 10.181 | 29477.01 | 0.0351 | P | 2.7 |
| 8 | <input type="checkbox"/> | 50.000 | 50.376 | 147620.92 | 0.1714 | P | 7.0 |
| 9 | <input type="checkbox"/> | 100.000 | 99.793 | 294292.96 | 0.3389 | P | 2.1 |
| 10 | <input type="checkbox"/> | | | 2776740.84 | 3.2975 | A | 4.1 |
| 11 | <input type="checkbox"/> | | | 2252.24 | 0.0026 | P | 13.4 |

$y = 0.0034 * x + 5.8099E-004$

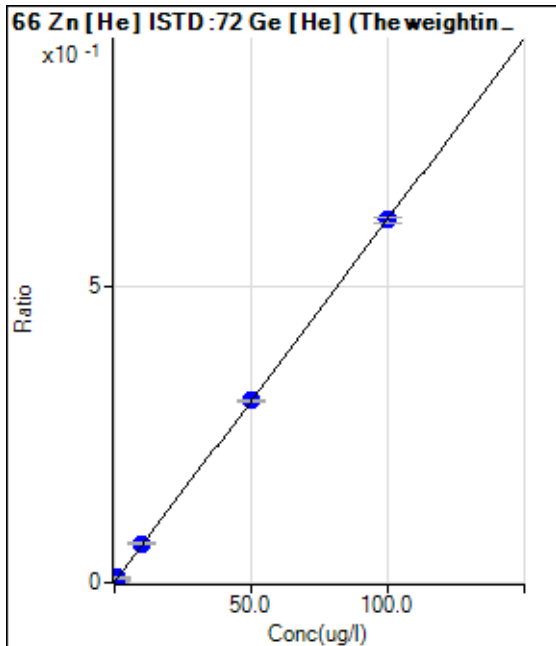
R = 1.0000

DL = 0.1678

BEC = 0.1713

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 91.11 | 0.0012 | P | 5.2 |
| 2 | <input type="checkbox"/> | | | 81.11 | 0.0011 | P | 28.8 |
| 3 | <input type="checkbox"/> | 0.050 | 0.026 | 106.66 | 0.0014 | P | 19.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.147 | 170.00 | 0.0021 | P | 12.5 |
| 5 | <input type="checkbox"/> | 0.500 | 0.460 | 314.45 | 0.0040 | P | 2.0 |
| 6 | <input type="checkbox"/> | 1.000 | 1.137 | 641.13 | 0.0082 | P | 12.0 |
| 7 | <input type="checkbox"/> | 10.000 | 10.565 | 5080.81 | 0.0661 | P | 3.4 |
| 8 | <input type="checkbox"/> | 50.000 | 50.094 | 24787.34 | 0.3087 | P | 0.9 |
| 9 | <input type="checkbox"/> | 100.000 | 99.896 | 50191.82 | 0.6144 | P | 1.8 |
| 10 | <input type="checkbox"/> | | | 481525.93 | 6.2583 | P | 9.9 |
| 11 | <input type="checkbox"/> | | | 404.45 | 0.0049 | P | 18.0 |

$y = 0.0061 * x + 0.0012$

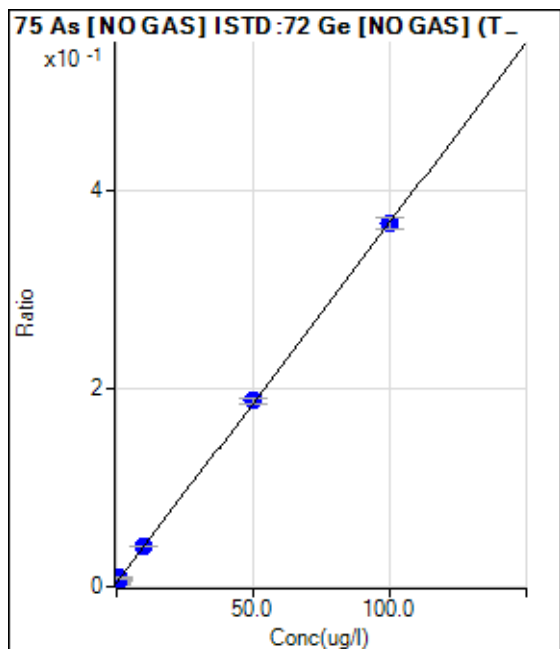
R = 1.0000

DL = 0.03069

BEC = 0.1966

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 3116.31 | 0.0037 | P | 51.3 |
| 2 | <input type="checkbox"/> | 0.025 | 0.324 | 4104.15 | 0.0049 | P | 41.4 |
| 3 | <input type="checkbox"/> | 0.050 | 0.280 | 3976.59 | 0.0047 | P | 19.9 |
| 4 | <input type="checkbox"/> | 0.100 | -0.082 | 3024.85 | 0.0034 | P | 6.0 |
| 5 | <input type="checkbox"/> | 0.500 | 0.595 | 4840.07 | 0.0059 | P | 28.4 |
| 6 | <input type="checkbox"/> | 1.000 | 1.417 | 7450.14 | 0.0089 | P | 5.9 |
| 7 | <input type="checkbox"/> | 10.000 | 10.259 | 34476.57 | 0.0411 | P | 1.6 |
| 8 | <input type="checkbox"/> | 50.000 | 50.512 | 161686.78 | 0.1876 | P | 2.9 |
| 9 | <input type="checkbox"/> | 100.000 | 99.714 | 318347.29 | 0.3667 | P | 3.0 |
| 10 | <input type="checkbox"/> | | | 2975263.89 | 3.5315 | A | 0.7 |
| 11 | <input type="checkbox"/> | | | 6392.04 | 0.0074 | P | 30.0 |

$y = 0.0036 * x + 0.0037$

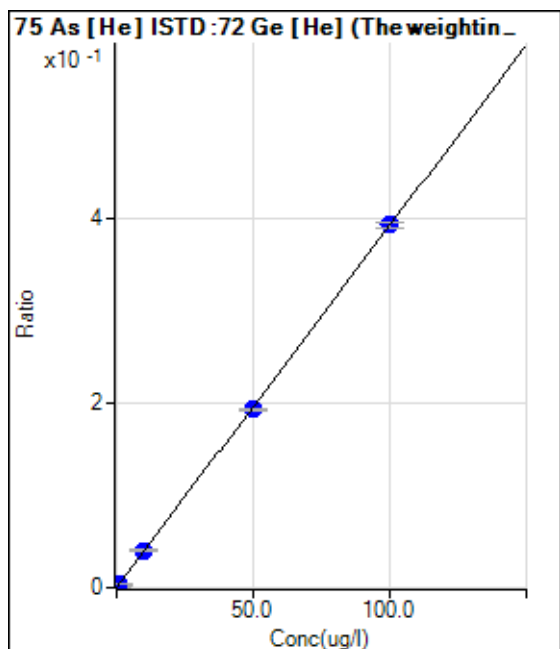
R = 1.0000

DL = 1.566

BEC = 1.018

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 5.00 | 0.0001 | P | 20.5 |
| 2 | <input type="checkbox"/> | 0.025 | 0.026 | 13.00 | 0.0002 | P | 20.1 |
| 3 | <input type="checkbox"/> | 0.050 | 0.058 | 23.00 | 0.0003 | P | 38.2 |
| 4 | <input type="checkbox"/> | 0.100 | 0.116 | 41.99 | 0.0005 | P | 22.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.471 | 148.97 | 0.0019 | P | 9.1 |
| 6 | <input type="checkbox"/> | 1.000 | 1.102 | 343.60 | 0.0044 | P | 3.2 |
| 7 | <input type="checkbox"/> | 10.000 | 10.325 | 3117.01 | 0.0405 | P | 5.2 |
| 8 | <input type="checkbox"/> | 50.000 | 49.393 | 15548.46 | 0.1936 | P | 1.1 |
| 9 | <input type="checkbox"/> | 100.000 | 100.270 | 32106.65 | 0.3930 | P | 1.6 |
| 10 | <input type="checkbox"/> | | | 317869.78 | 4.1263 | P | 8.0 |
| 11 | <input type="checkbox"/> | | | 57.66 | 0.0007 | P | 18.2 |

$y = 0.0039 * x + 6.6290E-005$

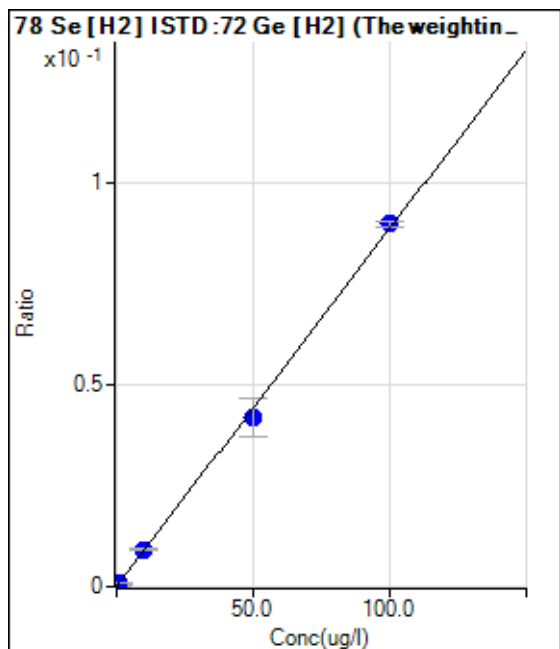
R = 1.0000

DL = 0.01042

BEC = 0.01692

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 2.33 | 0.0000 | P | 26.7 |
| 2 | <input type="checkbox"/> | 0.025 | 0.001 | 2.33 | 0.0000 | P | 66.6 |
| 3 | <input type="checkbox"/> | 0.050 | 0.042 | 6.67 | 0.0001 | P | 30.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.110 | 14.33 | 0.0001 | P | 38.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.420 | 45.66 | 0.0004 | P | 11.5 |
| 6 | <input type="checkbox"/> | 1.000 | 1.042 | 109.31 | 0.0009 | P | 7.8 |
| 7 | <input type="checkbox"/> | 10.000 | 10.348 | 1090.49 | 0.0092 | P | 3.9 |
| 8 | <input type="checkbox"/> | 50.000 | 47.153 | 5178.45 | 0.0417 | P | 22.8 |
| 9 | <input type="checkbox"/> | 100.000 | 101.389 | 10765.02 | 0.0897 | P | 1.6 |
| 10 | <input type="checkbox"/> | | | 103189.17 | 0.8536 | P | 0.7 |
| 11 | <input type="checkbox"/> | | | 30.66 | 0.0002 | P | 22.5 |

$y = 8.8493E-004 * x + 1.9751E-005$

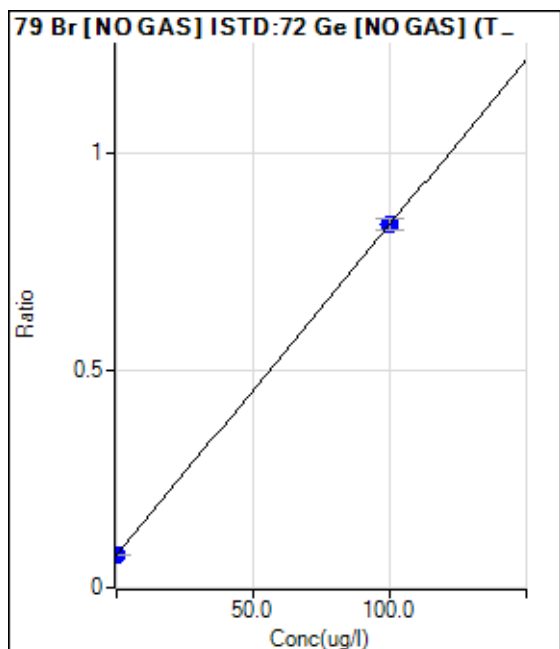
R = 0.9995

DL = 0.01788

BEC = 0.02232

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 63558.85 | 0.0752 | P | 2.7 |
| 2 | <input type="checkbox"/> | | | 66798.64 | 0.0794 | P | 0.3 |
| 3 | <input type="checkbox"/> | | | 65692.81 | 0.0781 | P | 0.9 |
| 4 | <input type="checkbox"/> | | | 66595.51 | 0.0751 | P | 3.7 |
| 5 | <input type="checkbox"/> | | | 65729.21 | 0.0798 | P | 0.5 |
| 6 | <input type="checkbox"/> | | | 64003.05 | 0.0762 | P | 3.2 |
| 7 | <input type="checkbox"/> | | | 65927.21 | 0.0785 | P | 1.1 |
| 8 | <input type="checkbox"/> | | | 66949.26 | 0.0777 | P | 7.7 |
| 9 | <input type="checkbox"/> | | | 68091.97 | 0.0784 | P | 3.2 |
| 10 | <input type="checkbox"/> | | | 70066.07 | 0.0831 | P | 1.5 |
| 11 | <input type="checkbox"/> | 100.000 | 100.000 | 720236.92 | 0.8359 | P | 3.2 |

$y = 0.0076 * x + 0.0752$

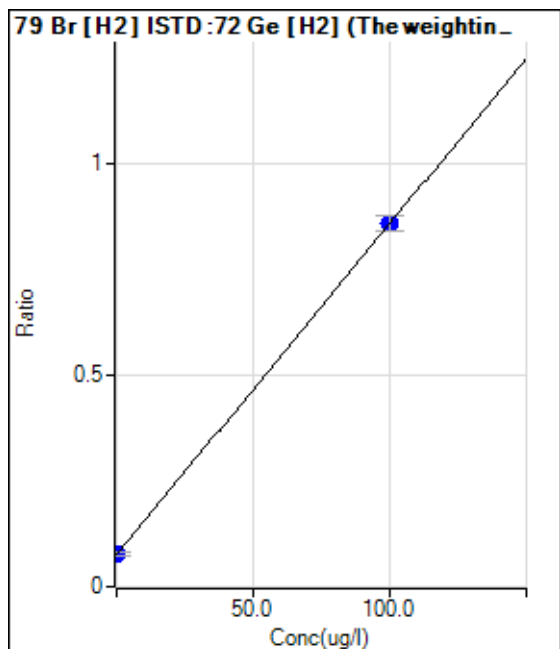
R = 1.0000

DL = 0.8109

BEC = 9.88

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 8938.12 | 0.0755 | P | 11.7 |
| 2 | <input type="checkbox"/> | | | 9327.51 | 0.0818 | P | 3.5 |
| 3 | <input type="checkbox"/> | | | 9314.22 | 0.0791 | P | 5.1 |
| 4 | <input type="checkbox"/> | | | 9490.69 | 0.0782 | P | 5.5 |
| 5 | <input type="checkbox"/> | | | 8918.14 | 0.0764 | P | 3.0 |
| 6 | <input type="checkbox"/> | | | 8755.02 | 0.0754 | P | 8.9 |
| 7 | <input type="checkbox"/> | | | 9017.98 | 0.0758 | P | 6.8 |
| 8 | <input type="checkbox"/> | | | 9447.42 | 0.0762 | P | 23.0 |
| 9 | <input type="checkbox"/> | | | 9803.56 | 0.0817 | P | 6.3 |
| 10 | <input type="checkbox"/> | | | 11461.37 | 0.0949 | P | 10.4 |
| 11 | <input type="checkbox"/> | 100.000 | 100.000 | 107446.53 | 0.8556 | P | 4.4 |

$y = 0.0078 * x + 0.0755$

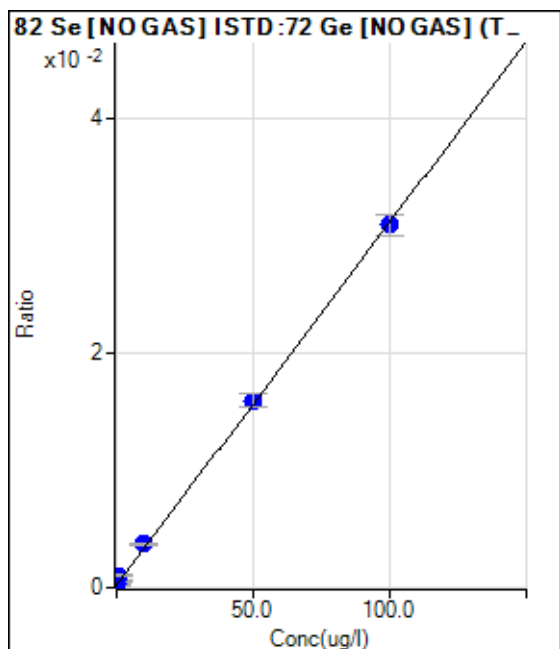
R = 1.0000

DL = 3.4

BEC = 9.678

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 168.34 | 0.0002 | P | 92.9 |
| 2 | <input type="checkbox"/> | 0.025 | 0.677 | 345.33 | 0.0004 | P | 49.0 |
| 3 | <input type="checkbox"/> | 0.050 | 0.762 | 368.63 | 0.0004 | P | 88.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.908 | 428.51 | 0.0005 | P | 42.6 |
| 5 | <input type="checkbox"/> | 0.500 | 1.375 | 516.35 | 0.0006 | P | 19.1 |
| 6 | <input type="checkbox"/> | 1.000 | 2.548 | 832.43 | 0.0010 | P | 15.8 |
| 7 | <input type="checkbox"/> | 10.000 | 11.324 | 3105.71 | 0.0037 | P | 7.1 |
| 8 | <input type="checkbox"/> | 50.000 | 50.902 | 13763.58 | 0.0159 | P | 6.9 |
| 9 | <input type="checkbox"/> | 100.000 | 99.395 | 26845.31 | 0.0309 | P | 5.9 |
| 10 | <input type="checkbox"/> | | | 258289.82 | 0.3065 | P | 0.8 |
| 11 | <input type="checkbox"/> | | | 1479.24 | 0.0017 | P | 17.9 |

$y = 3.0908E-004 * x + 2.0209E-004$

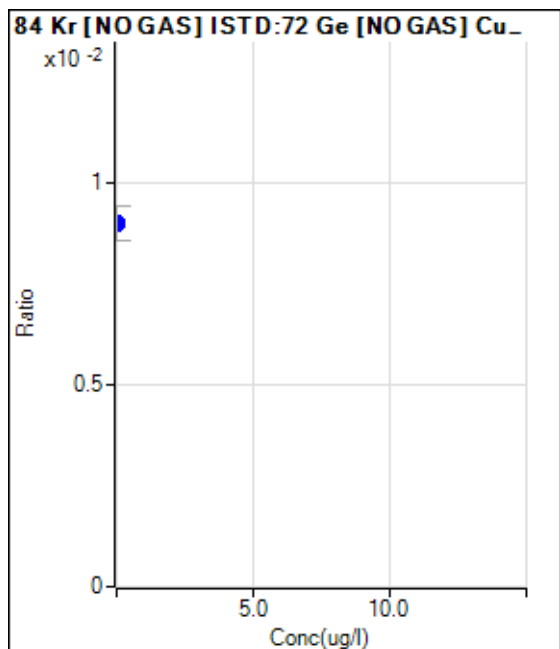
R = 0.9999

DL = 1.823

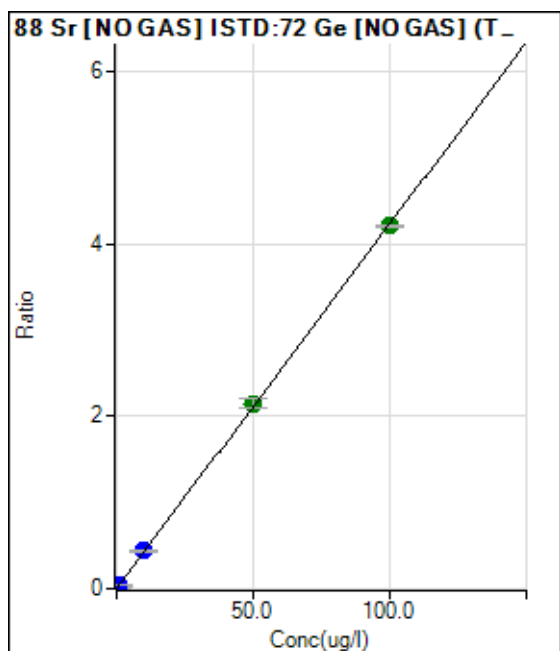
BEC = 0.6538

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | | 7593.39 | 0.0090 | P | 9.4 |
| 2 | <input type="checkbox"/> | | | 7892.95 | 0.0094 | P | 14.1 |
| 3 | <input type="checkbox"/> | | | 7829.77 | 0.0093 | P | 12.9 |
| 4 | <input type="checkbox"/> | | | 8089.31 | 0.0091 | P | 10.2 |
| 5 | <input type="checkbox"/> | | | 7819.73 | 0.0095 | P | 2.2 |
| 6 | <input type="checkbox"/> | | | 7726.55 | 0.0092 | P | 3.9 |
| 7 | <input type="checkbox"/> | | | 10136.41 | 0.0121 | P | 4.5 |
| 8 | <input type="checkbox"/> | | | 18140.81 | 0.0211 | P | 5.1 |
| 9 | <input type="checkbox"/> | | | 29431.34 | 0.0339 | P | 2.6 |
| 10 | <input type="checkbox"/> | | | 218875.09 | 0.2597 | P | 2.9 |
| 11 | <input type="checkbox"/> | | | 7929.57 | 0.0092 | P | 4.2 |



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 345.99 | 0.0004 | P | 26.5 |
| 2 | <input type="checkbox"/> | 0.025 | 0.028 | 1354.05 | 0.0016 | P | 5.0 |
| 3 | <input type="checkbox"/> | 0.050 | 0.062 | 2535.18 | 0.0030 | P | 4.2 |
| 4 | <input type="checkbox"/> | 0.100 | 0.120 | 4854.47 | 0.0055 | P | 5.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.528 | 18736.93 | 0.0227 | P | 2.6 |
| 6 | <input type="checkbox"/> | 1.000 | 1.159 | 41493.50 | 0.0494 | P | 2.1 |
| 7 | <input type="checkbox"/> | 10.000 | 10.295 | 365540.52 | 0.4354 | P | 2.9 |
| 8 | <input type="checkbox"/> | 50.000 | 50.791 | 1848846.49 | 2.1465 | A | 5.4 |
| 9 | <input type="checkbox"/> | 100.000 | 99.573 | 3653296.99 | 4.2076 | A | 0.6 |
| 10 | <input type="checkbox"/> | | | 36391345.75 | 43.1989 | A | 3.3 |
| 11 | <input type="checkbox"/> | | | 3995.95 | 0.0046 | P | 3.3 |

$y = 0.0423 * x + 4.0784E-004$

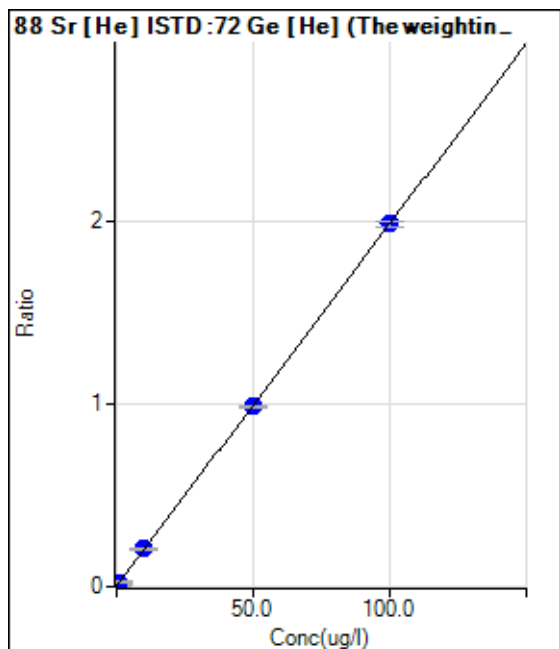
R = 1.0000

DL = 0.007675

BEC = 0.009652

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 240.00 | 0.0032 | P | 23.2 |
| 2 | <input type="checkbox"/> | 0.025 | 0.007 | 255.56 | 0.0033 | P | 11.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.054 | 331.12 | 0.0042 | P | 15.5 |
| 4 | <input type="checkbox"/> | 0.100 | 0.131 | 464.45 | 0.0058 | P | 5.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.539 | 1078.93 | 0.0138 | P | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 | 1.117 | 1980.14 | 0.0252 | P | 8.2 |
| 7 | <input type="checkbox"/> | 10.000 | 10.427 | 16082.40 | 0.2092 | P | 5.7 |
| 8 | <input type="checkbox"/> | 50.000 | 49.679 | 79076.52 | 0.9848 | P | 1.2 |
| 9 | <input type="checkbox"/> | 100.000 | 100.116 | 161875.83 | 1.9815 | P | 1.8 |
| 10 | <input type="checkbox"/> | | | 1611412.55 | 20.9601 | A | 11.3 |
| 11 | <input type="checkbox"/> | | | 384.45 | 0.0047 | P | 5.7 |

$y = 0.0198 * x + 0.0032$

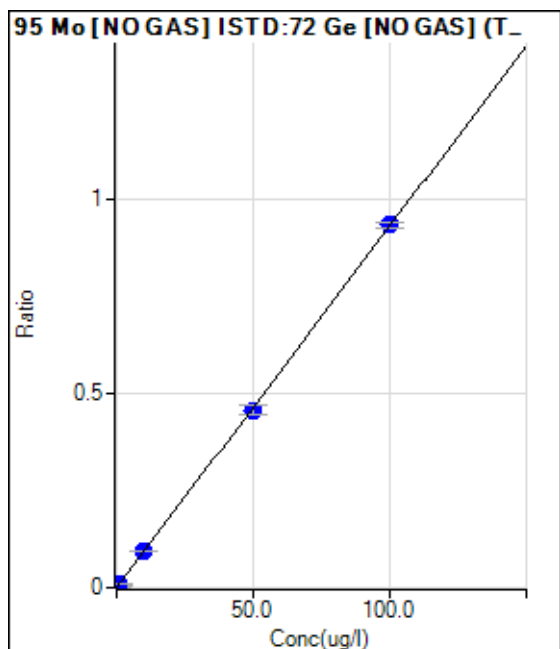
R = 1.0000

DL = 0.1121

BEC = 0.161

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 75.55 | 0.0001 | P | 27.9 |
| 2 | <input type="checkbox"/> | 0.025 | 0.032 | 327.78 | 0.0004 | P | 4.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.057 | 517.79 | 0.0006 | P | 10.9 |
| 4 | <input type="checkbox"/> | 0.100 | 0.125 | 1104.49 | 0.0012 | P | 15.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.510 | 3972.74 | 0.0048 | P | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 | 1.160 | 9113.72 | 0.0108 | P | 1.7 |
| 7 | <input type="checkbox"/> | 10.000 | 10.235 | 79788.94 | 0.0950 | P | 2.6 |
| 8 | <input type="checkbox"/> | 50.000 | 49.012 | 391709.11 | 0.4547 | P | 5.4 |
| 9 | <input type="checkbox"/> | 100.000 | 100.469 | 809217.04 | 0.9320 | P | 1.9 |
| 10 | <input type="checkbox"/> | | | 546.68 | 0.0006 | P | 2.4 |
| 11 | <input type="checkbox"/> | | | 237.78 | 0.0003 | P | 10.6 |

$y = 0.0093 * x + 8.9557E-005$

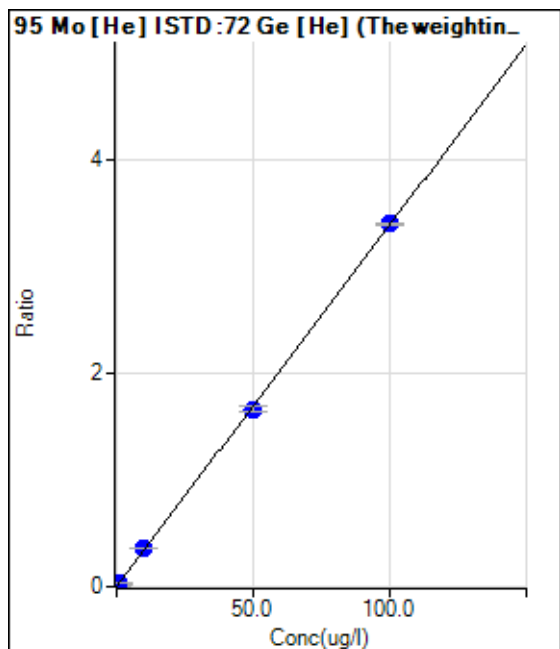
R = 0.9999

DL = 0.00807

BEC = 0.009655

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 35.56 | 0.0005 | P | 26.8 |
| 2 | <input type="checkbox"/> | 0.025 | 0.025 | 100.00 | 0.0013 | P | 25.7 |
| 3 | <input type="checkbox"/> | 0.050 | 0.057 | 187.78 | 0.0024 | P | 19.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.116 | 353.34 | 0.0044 | P | 7.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.484 | 1312.29 | 0.0168 | P | 3.7 |
| 6 | <input type="checkbox"/> | 1.000 | 1.090 | 2928.06 | 0.0374 | P | 3.0 |
| 7 | <input type="checkbox"/> | 10.000 | 10.503 | 27374.03 | 0.3557 | P | 2.2 |
| 8 | <input type="checkbox"/> | 50.000 | 49.172 | 133539.43 | 1.6635 | P | 3.1 |
| 9 | <input type="checkbox"/> | 100.000 | 100.363 | 277332.08 | 3.3947 | P | 0.8 |
| 10 | <input type="checkbox"/> | | | 156.67 | 0.0020 | P | 18.0 |
| 11 | <input type="checkbox"/> | | | 70.00 | 0.0009 | P | 39.5 |

$y = 0.0338 * x + 4.7090E-004$

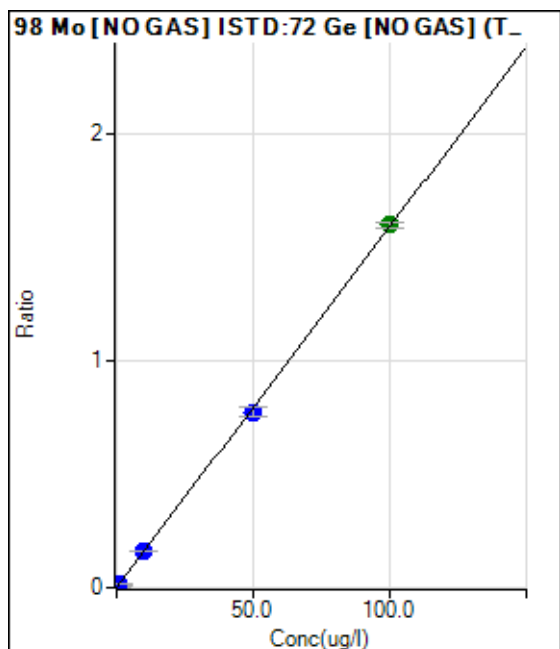
R = 0.9999

DL = 0.0112

BEC = 0.01392

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 154.52 | 0.0002 | P | 3.5 |
| 2 | <input type="checkbox"/> | 0.025 | 0.023 | 467.59 | 0.0006 | P | 2.1 |
| 3 | <input type="checkbox"/> | 0.050 | 0.052 | 851.92 | 0.0010 | P | 5.8 |
| 4 | <input type="checkbox"/> | 0.100 | 0.112 | 1732.89 | 0.0020 | P | 8.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.496 | 6641.76 | 0.0081 | P | 5.3 |
| 6 | <input type="checkbox"/> | 1.000 | 1.097 | 14770.23 | 0.0176 | P | 2.7 |
| 7 | <input type="checkbox"/> | 10.000 | 10.101 | 134758.07 | 0.1605 | P | 3.4 |
| 8 | <input type="checkbox"/> | 50.000 | 48.766 | 667004.94 | 0.7742 | P | 5.0 |
| 9 | <input type="checkbox"/> | 100.000 | 100.606 | 1386610.72 | 1.5970 | A | 1.3 |
| 10 | <input type="checkbox"/> | | | 1100.83 | 0.0013 | P | 9.6 |
| 11 | <input type="checkbox"/> | | | 305.08 | 0.0004 | P | 24.5 |

$y = 0.0159 * x + 1.8269E-004$

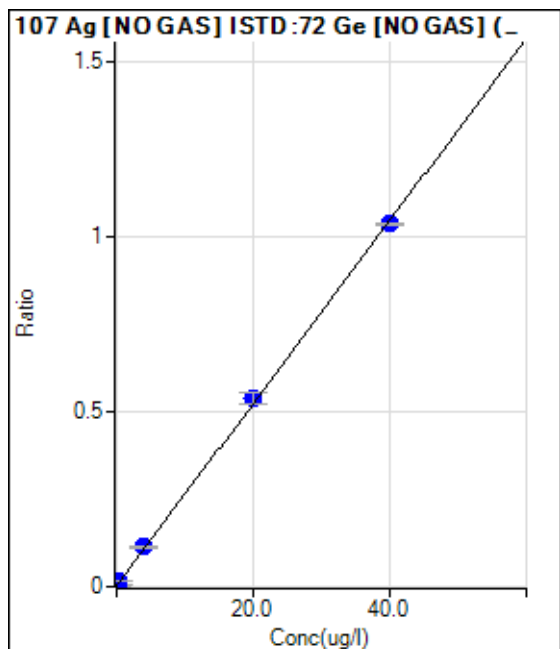
R = 0.9999

DL = 0.001195

BEC = 0.01151

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|--------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 1719.09 | 0.0020 | P | 9.1 |
| 2 | <input type="checkbox"/> | 0.010 | 0.014 | 2023.07 | 0.0024 | P | 2.8 |
| 3 | <input type="checkbox"/> | 0.020 | 0.022 | 2199.05 | 0.0026 | P | 2.9 |
| 4 | <input type="checkbox"/> | 0.040 | 0.046 | 2871.02 | 0.0032 | P | 7.2 |
| 5 | <input type="checkbox"/> | 0.200 | 0.215 | 6310.66 | 0.0077 | P | 3.9 |
| 6 | <input type="checkbox"/> | 0.400 | 0.473 | 12080.12 | 0.0144 | P | 1.2 |
| 7 | <input type="checkbox"/> | 4.000 | 4.301 | 95999.06 | 0.1144 | P | 3.4 |
| 8 | <input type="checkbox"/> | 20.000 | 20.579 | 464508.87 | 0.5395 | P | 6.9 |
| 9 | <input type="checkbox"/> | 40.000 | 39.680 | 901524.22 | 1.0383 | P | 0.7 |
| 10 | <input type="checkbox"/> | | | 8109684.46 | 9.6169 | A | 7.4 |
| 11 | <input type="checkbox"/> | | | 8445.22 | 0.0098 | P | 3.6 |

$y = 0.0261 * x + 0.0020$

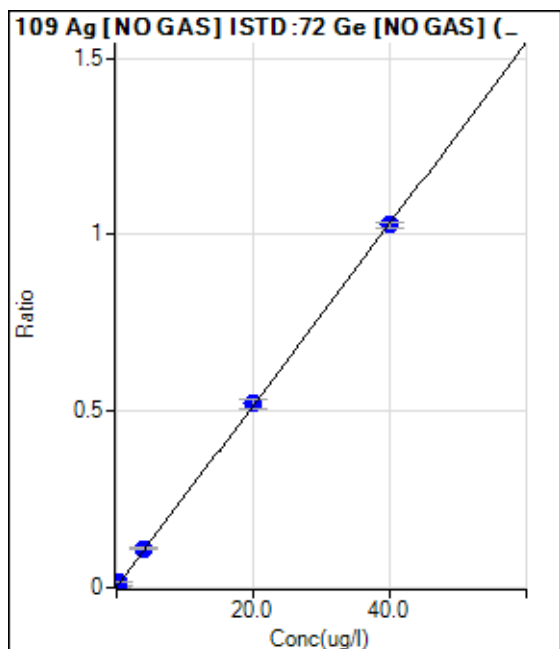
R = 0.9998

DL = 0.02123

BEC = 0.0779

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|--------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 1685.09 | 0.0020 | P | 3.1 |
| 2 | <input type="checkbox"/> | 0.010 | 0.012 | 1947.73 | 0.0023 | P | 2.7 |
| 3 | <input type="checkbox"/> | 0.020 | 0.027 | 2253.05 | 0.0027 | P | 0.9 |
| 4 | <input type="checkbox"/> | 0.040 | 0.047 | 2837.70 | 0.0032 | P | 8.9 |
| 5 | <input type="checkbox"/> | 0.200 | 0.208 | 6049.94 | 0.0073 | P | 1.0 |
| 6 | <input type="checkbox"/> | 0.400 | 0.464 | 11685.90 | 0.0139 | P | 1.1 |
| 7 | <input type="checkbox"/> | 4.000 | 4.224 | 92856.67 | 0.1106 | P | 3.0 |
| 8 | <input type="checkbox"/> | 20.000 | 20.159 | 448326.55 | 0.5204 | P | 5.5 |
| 9 | <input type="checkbox"/> | 40.000 | 39.897 | 892445.25 | 1.0279 | P | 1.8 |
| 10 | <input type="checkbox"/> | | | 7810660.44 | 9.2670 | A | 6.4 |
| 11 | <input type="checkbox"/> | | | 8287.85 | 0.0096 | P | 5.8 |

$y = 0.0257 * x + 0.0020$

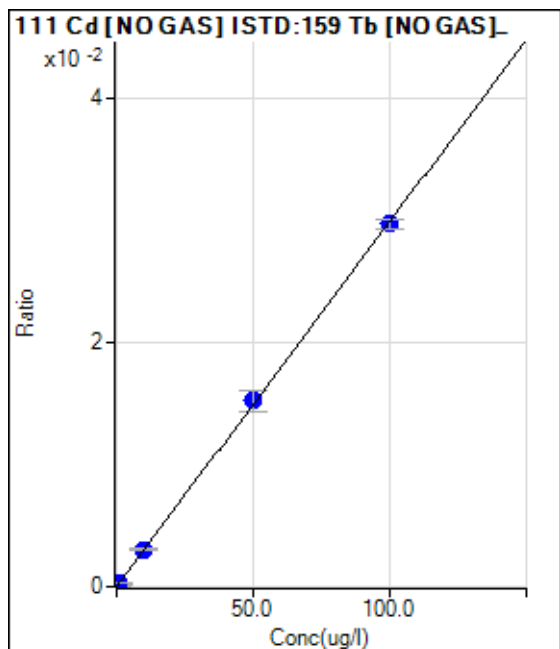
R = 1.0000

DL = 0.007144

BEC = 0.07751

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|--------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | -40.03 | 0.0000 | P | -185.4 |
| 2 | <input type="checkbox"/> | 0.025 | 0.024 | 91.46 | 0.0000 | P | 85.8 |
| 3 | <input type="checkbox"/> | 0.050 | 0.063 | 302.29 | 0.0000 | P | 12.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.101 | 535.94 | 0.0000 | P | 6.6 |
| 5 | <input type="checkbox"/> | 0.500 | 0.483 | 2583.17 | 0.0001 | P | 7.6 |
| 6 | <input type="checkbox"/> | 1.000 | 1.083 | 5911.89 | 0.0003 | P | 4.3 |
| 7 | <input type="checkbox"/> | 10.000 | 10.250 | 55459.81 | 0.0031 | P | 2.3 |
| 8 | <input type="checkbox"/> | 50.000 | 50.963 | 276233.54 | 0.0152 | P | 11.1 |
| 9 | <input type="checkbox"/> | 100.000 | 99.493 | 540763.00 | 0.0298 | P | 2.3 |
| 10 | <input type="checkbox"/> | | | 5094140.13 | 0.2861 | A | 4.4 |
| 11 | <input type="checkbox"/> | | | 675.29 | 0.0000 | P | 20.9 |

$y = 2.9923E-004 * x - 2.1563E-006$

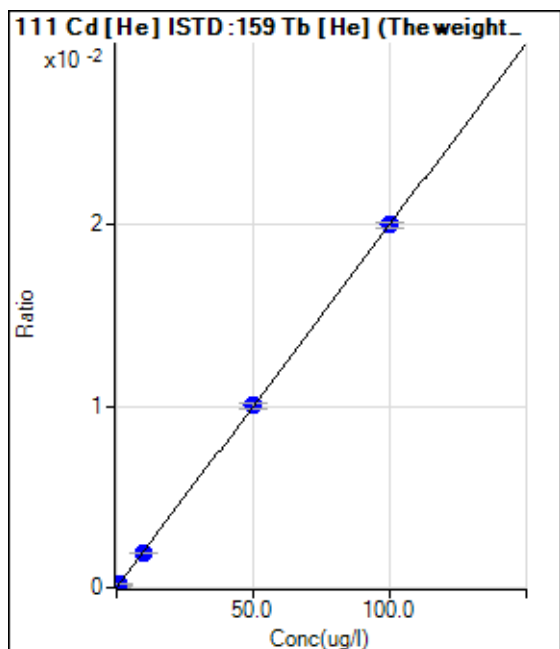
R = 0.9999

DL = 0.04007

BEC = -0.007206

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 0.67 | 0.0000 | P | 173.2 |
| 2 | <input type="checkbox"/> | 0.025 | 0.019 | 27.33 | 0.0000 | P | 28.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.051 | 72.65 | 0.0000 | P | 7.9 |
| 4 | <input type="checkbox"/> | 0.100 | 0.109 | 150.64 | 0.0000 | P | 17.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.497 | 693.22 | 0.0001 | P | 6.8 |
| 6 | <input type="checkbox"/> | 1.000 | 1.075 | 1519.11 | 0.0002 | P | 3.2 |
| 7 | <input type="checkbox"/> | 10.000 | 9.647 | 13469.61 | 0.0019 | P | 2.1 |
| 8 | <input type="checkbox"/> | 50.000 | 50.085 | 68463.05 | 0.0100 | P | 2.1 |
| 9 | <input type="checkbox"/> | 100.000 | 99.992 | 136778.89 | 0.0200 | P | 1.9 |
| 10 | <input type="checkbox"/> | | | 1314244.87 | 0.2058 | M | 5.7 |
| 11 | <input type="checkbox"/> | | | 133.97 | 0.0000 | P | 17.7 |

$y = 1.9973E-004 * x + 9.5666E-008$

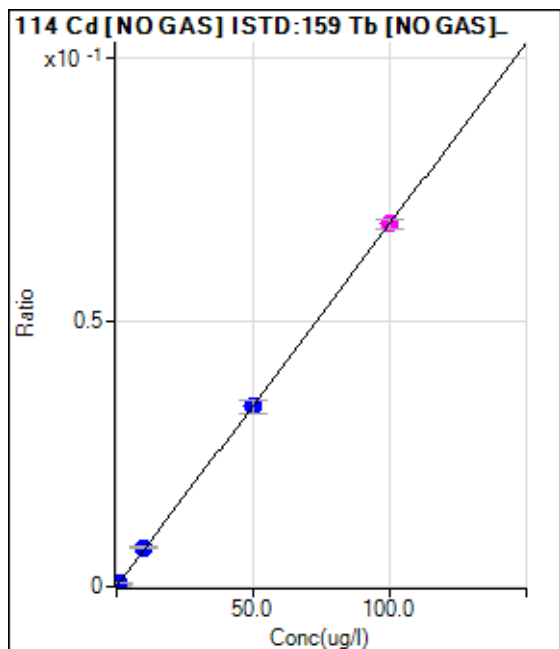
R = 1.0000

DL = 0.002489

BEC = 0.000479

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|--------|------|--------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | -250.96 | 0.0000 | P | -105.5 |
| 2 | <input type="checkbox"/> | 0.025 | 0.017 | -31.82 | 0.0000 | P | -210.1 |
| 3 | <input type="checkbox"/> | 0.050 | 0.062 | 520.24 | 0.0000 | P | 12.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.106 | 1128.60 | 0.0001 | P | 18.9 |
| 5 | <input type="checkbox"/> | 0.500 | 0.510 | 6093.82 | 0.0003 | P | 1.7 |
| 6 | <input type="checkbox"/> | 1.000 | 1.155 | 14289.17 | 0.0008 | P | 2.9 |
| 7 | <input type="checkbox"/> | 10.000 | 10.659 | 131903.21 | 0.0073 | P | 4.1 |
| 8 | <input type="checkbox"/> | 50.000 | 49.706 | 617846.98 | 0.0340 | P | 7.7 |
| 9 | <input type="checkbox"/> | 100.000 | 100.080 | 1245274.71 | 0.0686 | M | 2.9 |
| 10 | <input type="checkbox"/> | | | 11943790.38 | 0.6708 | A | 5.2 |
| 11 | <input type="checkbox"/> | | | 1178.08 | 0.0001 | P | 8.3 |

$y = 6.8521E-004 * x - 1.3616E-005$

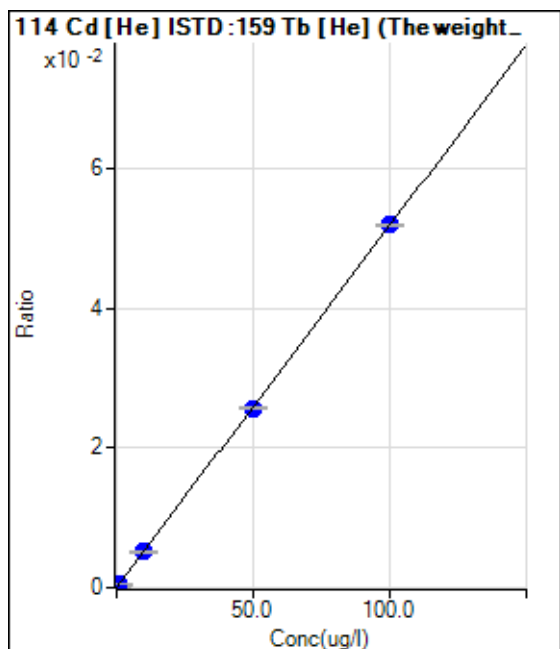
R = 1.0000

DL = 0.06292

BEC = -0.01987

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | -33.69 | 0.0000 | P | -33.8 |
| 2 | <input type="checkbox"/> | 0.025 | 0.034 | 88.02 | 0.0000 | P | 6.4 |
| 3 | <input type="checkbox"/> | 0.050 | 0.060 | 186.75 | 0.0000 | P | 9.5 |
| 4 | <input type="checkbox"/> | 0.100 | 0.143 | 476.68 | 0.0001 | P | 25.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.519 | 1842.71 | 0.0003 | P | 3.6 |
| 6 | <input type="checkbox"/> | 1.000 | 1.096 | 3981.94 | 0.0006 | P | 2.9 |
| 7 | <input type="checkbox"/> | 10.000 | 9.917 | 35828.84 | 0.0051 | P | 5.8 |
| 8 | <input type="checkbox"/> | 50.000 | 49.519 | 175549.09 | 0.0257 | P | 1.0 |
| 9 | <input type="checkbox"/> | 100.000 | 100.248 | 355718.01 | 0.0519 | P | 0.5 |
| 10 | <input type="checkbox"/> | | | 3371579.26 | 0.5280 | A | 6.1 |
| 11 | <input type="checkbox"/> | | | 360.65 | 0.0001 | P | 3.0 |

$y = 5.1812E-004 * x - 4.7883E-006$

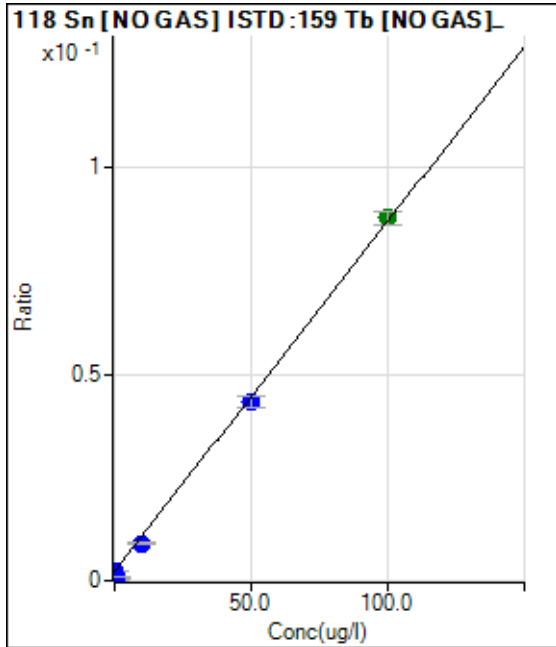
R = 1.0000

DL = 0.009358

BEC = -0.009242

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 41708.59 | 0.0023 | P | 4.1 |
| 2 | <input type="checkbox"/> | 0.025 | -2.492 | 3147.43 | 0.0002 | P | 6.7 |
| 3 | <input type="checkbox"/> | 0.050 | -2.446 | 3813.02 | 0.0002 | P | 7.9 |
| 4 | <input type="checkbox"/> | 0.100 | -2.386 | 4970.97 | 0.0003 | P | 4.0 |
| 5 | <input type="checkbox"/> | 0.500 | -1.981 | 10958.83 | 0.0006 | P | 4.9 |
| 6 | <input type="checkbox"/> | 1.000 | -1.339 | 21078.92 | 0.0011 | P | 1.8 |
| 7 | <input type="checkbox"/> | 10.000 | 7.975 | 163535.01 | 0.0090 | P | 3.2 |
| 8 | <input type="checkbox"/> | 50.000 | 48.328 | 785361.96 | 0.0432 | P | 6.0 |
| 9 | <input type="checkbox"/> | 100.000 | 101.079 | 1596763.76 | 0.0879 | A | 3.6 |
| 10 | <input type="checkbox"/> | | | 3693.12 | 0.0002 | P | 0.7 |
| 11 | <input type="checkbox"/> | | | 4841.17 | 0.0003 | P | 3.3 |

$y = 8.4718E-004 * x + 0.0023$

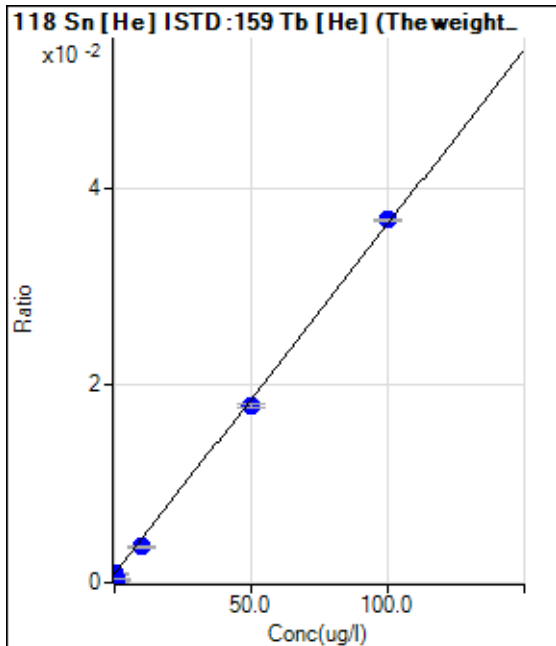
R = 0.9997

DL = 0.3322

BEC = 2.694

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 6259.04 | 0.0009 | P | 2.7 |
| 2 | <input type="checkbox"/> | 0.025 | -2.311 | 467.79 | 0.0001 | P | 4.1 |
| 3 | <input type="checkbox"/> | 0.050 | -2.277 | 563.35 | 0.0001 | P | 20.3 |
| 4 | <input type="checkbox"/> | 0.100 | -2.210 | 712.24 | 0.0001 | P | 2.1 |
| 5 | <input type="checkbox"/> | 0.500 | -1.878 | 1544.53 | 0.0002 | P | 7.0 |
| 6 | <input type="checkbox"/> | 1.000 | -1.236 | 3177.01 | 0.0004 | P | 2.3 |
| 7 | <input type="checkbox"/> | 10.000 | 7.789 | 25495.81 | 0.0036 | P | 2.3 |
| 8 | <input type="checkbox"/> | 50.000 | 48.019 | 122550.80 | 0.0179 | P | 1.7 |
| 9 | <input type="checkbox"/> | 100.000 | 101.250 | 251870.37 | 0.0368 | P | 0.8 |
| 10 | <input type="checkbox"/> | | | 625.57 | 0.0001 | P | 4.5 |
| 11 | <input type="checkbox"/> | | | 763.36 | 0.0001 | P | 6.3 |

$y = 3.5444E-004 * x + 8.8699E-004$

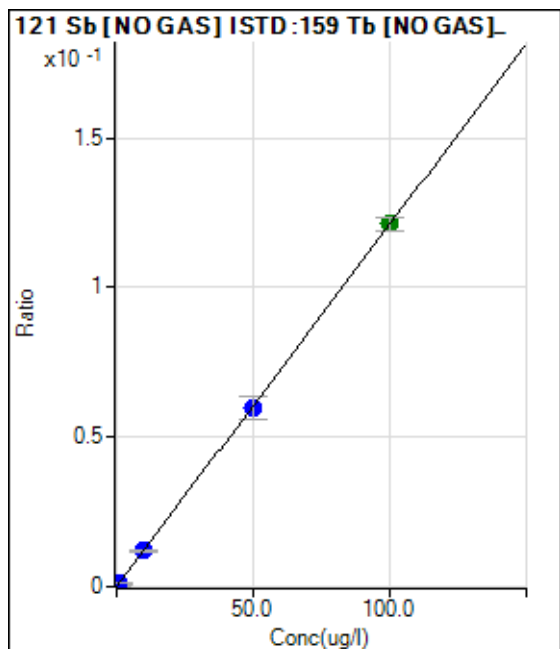
R = 0.9997

DL = 0.2018

BEC = 2.503

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 165.56 | 0.0000 | P | 10.2 |
| 2 | <input type="checkbox"/> | 0.025 | 0.026 | 733.36 | 0.0000 | P | 7.8 |
| 3 | <input type="checkbox"/> | 0.050 | 0.052 | 1312.29 | 0.0001 | P | 1.9 |
| 4 | <input type="checkbox"/> | 0.100 | 0.117 | 2856.95 | 0.0002 | P | 11.3 |
| 5 | <input type="checkbox"/> | 0.500 | 0.476 | 10606.91 | 0.0006 | P | 1.6 |
| 6 | <input type="checkbox"/> | 1.000 | 1.074 | 24012.43 | 0.0013 | P | 2.3 |
| 7 | <input type="checkbox"/> | 10.000 | 9.850 | 215770.84 | 0.0119 | P | 2.1 |
| 8 | <input type="checkbox"/> | 50.000 | 49.599 | 1085598.81 | 0.0600 | P | 12.7 |
| 9 | <input type="checkbox"/> | 100.000 | 100.215 | 2202168.58 | 0.1212 | A | 3.5 |
| 10 | <input type="checkbox"/> | | | 3055.88 | 0.0002 | P | 8.1 |
| 11 | <input type="checkbox"/> | | | 752.25 | 0.0000 | P | 8.8 |

$y = 0.0012 * x + 9.0595E-006$

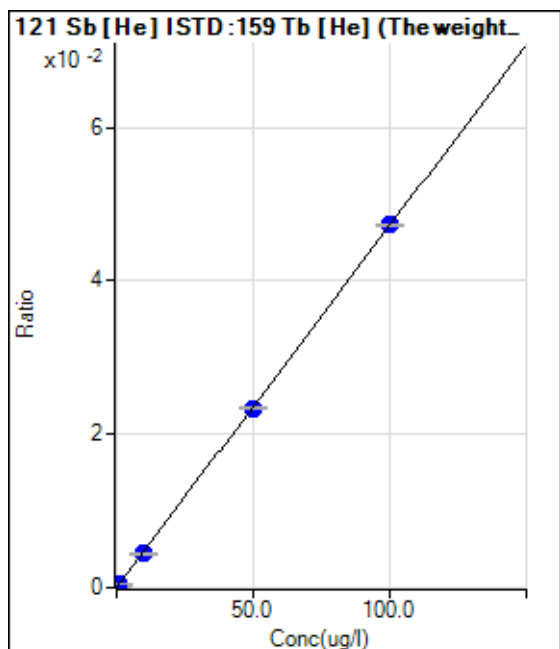
R = 1.0000

DL = 0.002302

BEC = 0.007488

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 34.44 | 0.0000 | P | 42.3 |
| 2 | <input type="checkbox"/> | 0.025 | 0.021 | 101.11 | 0.0000 | P | 16.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.056 | 218.89 | 0.0000 | P | 22.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.120 | 421.12 | 0.0001 | P | 9.3 |
| 5 | <input type="checkbox"/> | 0.500 | 0.481 | 1617.87 | 0.0002 | P | 10.3 |
| 6 | <input type="checkbox"/> | 1.000 | 0.984 | 3312.59 | 0.0005 | P | 8.3 |
| 7 | <input type="checkbox"/> | 10.000 | 9.319 | 30711.55 | 0.0044 | P | 4.0 |
| 8 | <input type="checkbox"/> | 50.000 | 49.592 | 160024.29 | 0.0234 | P | 0.8 |
| 9 | <input type="checkbox"/> | 100.000 | 100.272 | 323846.52 | 0.0473 | P | 0.7 |
| 10 | <input type="checkbox"/> | | | 335.56 | 0.0001 | P | 27.8 |
| 11 | <input type="checkbox"/> | | | 130.00 | 0.0000 | P | 15.9 |

$y = 4.7146E-004 * x + 4.8602E-006$

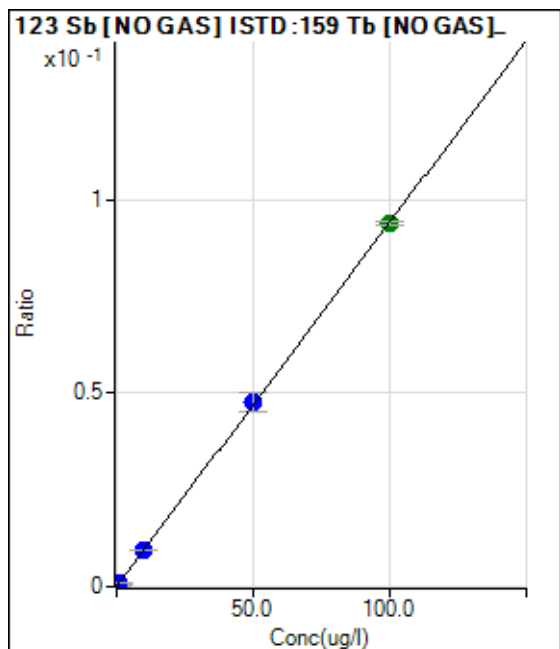
R = 1.0000

DL = 0.01307

BEC = 0.01031

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 154.45 | 0.0000 | P | 25.5 |
| 2 | <input type="checkbox"/> | 0.025 | 0.024 | 571.13 | 0.0000 | P | 8.4 |
| 3 | <input type="checkbox"/> | 0.050 | 0.048 | 973.37 | 0.0001 | P | 5.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.115 | 2211.28 | 0.0001 | P | 9.3 |
| 5 | <input type="checkbox"/> | 0.500 | 0.459 | 7998.72 | 0.0004 | P | 1.8 |
| 6 | <input type="checkbox"/> | 1.000 | 1.062 | 18495.14 | 0.0010 | P | 3.4 |
| 7 | <input type="checkbox"/> | 10.000 | 9.970 | 169954.01 | 0.0094 | P | 1.5 |
| 8 | <input type="checkbox"/> | 50.000 | 50.645 | 863958.81 | 0.0477 | P | 10.4 |
| 9 | <input type="checkbox"/> | 100.000 | 99.680 | 1704450.01 | 0.0938 | A | 1.2 |
| 10 | <input type="checkbox"/> | | | 2643.57 | 0.0001 | P | 6.0 |
| 11 | <input type="checkbox"/> | | | 597.80 | 0.0000 | P | 6.5 |

$y = 9.4133E-004 * x + 8.4529E-006$

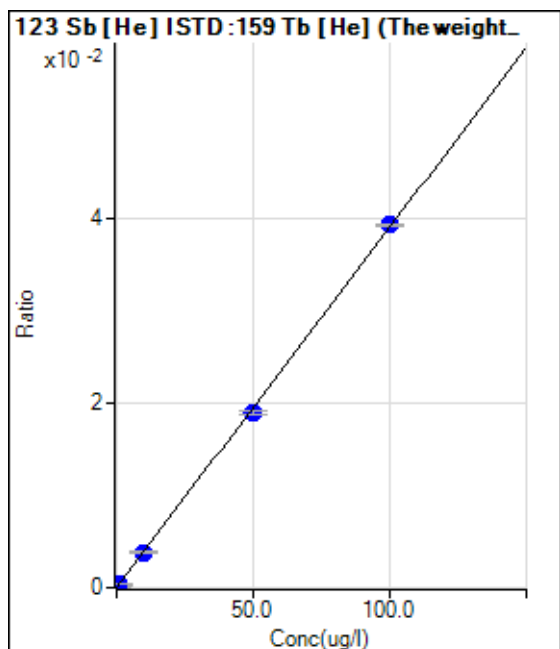
R = 1.0000

DL = 0.006881

BEC = 0.00898

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 23.33 | 0.0000 | P | 38.9 |
| 2 | <input type="checkbox"/> | 0.025 | 0.031 | 106.67 | 0.0000 | P | 37.5 |
| 3 | <input type="checkbox"/> | 0.050 | 0.058 | 184.45 | 0.0000 | P | 10.3 |
| 4 | <input type="checkbox"/> | 0.100 | 0.100 | 291.12 | 0.0000 | P | 7.7 |
| 5 | <input type="checkbox"/> | 0.500 | 0.459 | 1274.51 | 0.0002 | P | 4.1 |
| 6 | <input type="checkbox"/> | 1.000 | 1.035 | 2879.17 | 0.0004 | P | 8.4 |
| 7 | <input type="checkbox"/> | 10.000 | 9.832 | 26813.68 | 0.0038 | P | 5.3 |
| 8 | <input type="checkbox"/> | 50.000 | 48.601 | 129822.28 | 0.0190 | P | 2.0 |
| 9 | <input type="checkbox"/> | 100.000 | 100.716 | 269271.97 | 0.0393 | P | 0.5 |
| 10 | <input type="checkbox"/> | | | 295.56 | 0.0000 | P | 10.5 |
| 11 | <input type="checkbox"/> | | | 106.67 | 0.0000 | P | 42.0 |

$y = 3.9031E-004 * x + 3.3184E-006$

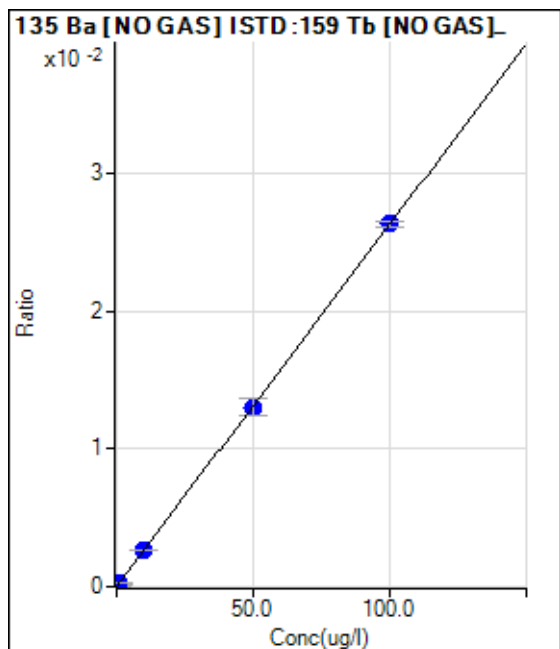
R = 0.9999

DL = 0.009913

BEC = 0.008502

Weight: 1/y

Min Conc: <None>



| | Rj t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 13.31 | 0.0000 | P | 42.9 |
| 2 | <input type="checkbox"/> | 0.025 | 0.031 | 163.01 | 0.0000 | P | 67.4 |
| 3 | <input type="checkbox"/> | 0.050 | 0.066 | 326.02 | 0.0000 | P | 9.9 |
| 4 | <input type="checkbox"/> | 0.100 | 0.105 | 535.62 | 0.0000 | P | 7.4 |
| 5 | <input type="checkbox"/> | 0.500 | 0.529 | 2535.21 | 0.0001 | P | 6.2 |
| 6 | <input type="checkbox"/> | 1.000 | 1.110 | 5360.32 | 0.0003 | P | 6.2 |
| 7 | <input type="checkbox"/> | 10.000 | 9.870 | 46893.21 | 0.0026 | P | 0.5 |
| 8 | <input type="checkbox"/> | 50.000 | 49.591 | 236025.42 | 0.0130 | P | 9.4 |
| 9 | <input type="checkbox"/> | 100.000 | 100.216 | 477841.72 | 0.0263 | P | 1.8 |
| 10 | <input type="checkbox"/> | | | 4529106.02 | 0.2543 | A | 4.4 |
| 11 | <input type="checkbox"/> | | | 592.17 | 0.0000 | P | 5.1 |

$y = 2.6249E-004 * x + 7.2779E-007$

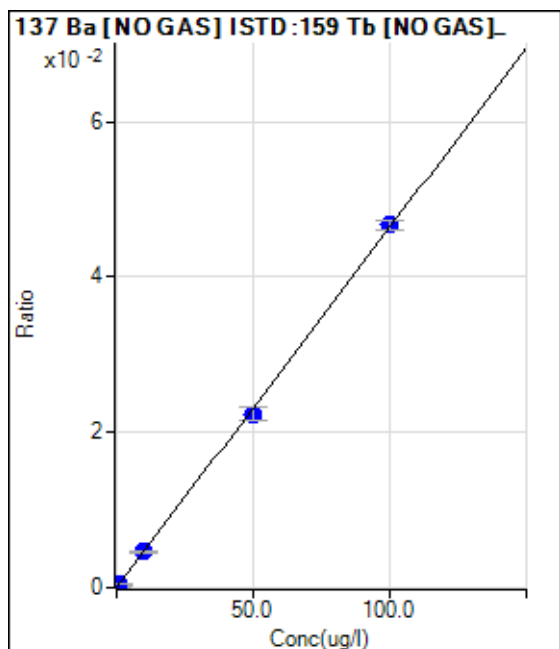
R = 1.0000

DL = 0.003567

BEC = 0.002773

Weight: 1/y

Min Conc: <None>



| | Rj t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 46.57 | 0.0000 | P | 86.5 |
| 2 | <input type="checkbox"/> | 0.025 | 0.020 | 216.24 | 0.0000 | P | 22.7 |
| 3 | <input type="checkbox"/> | 0.050 | 0.053 | 492.37 | 0.0000 | P | 18.0 |
| 4 | <input type="checkbox"/> | 0.100 | 0.116 | 1064.61 | 0.0001 | P | 15.9 |
| 5 | <input type="checkbox"/> | 0.500 | 0.497 | 4222.23 | 0.0002 | P | 8.2 |
| 6 | <input type="checkbox"/> | 1.000 | 1.087 | 9294.41 | 0.0005 | P | 3.5 |
| 7 | <input type="checkbox"/> | 10.000 | 9.926 | 83229.02 | 0.0046 | P | 1.4 |
| 8 | <input type="checkbox"/> | 50.000 | 48.354 | 406525.19 | 0.0224 | P | 7.5 |
| 9 | <input type="checkbox"/> | 100.000 | 100.829 | 848340.93 | 0.0467 | P | 2.9 |
| 10 | <input type="checkbox"/> | | | 7855709.56 | 0.4410 | A | 4.8 |
| 11 | <input type="checkbox"/> | | | 1014.70 | 0.0001 | P | 14.6 |

$y = 4.6316E-004 * x + 2.5378E-006$

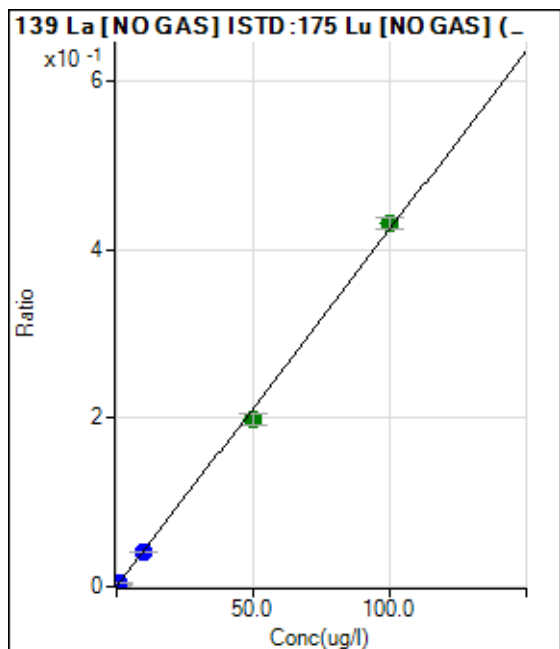
R = 0.9998

DL = 0.01422

BEC = 0.005479

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 73.41 | 0.0000 | P | 50.9 |
| 2 | <input type="checkbox"/> | 0.025 | 0.023 | 1935.45 | 0.0001 | P | 9.4 |
| 3 | <input type="checkbox"/> | 0.050 | 0.052 | 4318.36 | 0.0002 | P | 8.8 |
| 4 | <input type="checkbox"/> | 0.100 | 0.114 | 9385.73 | 0.0005 | P | 5.7 |
| 5 | <input type="checkbox"/> | 0.500 | 0.501 | 39241.64 | 0.0021 | P | 3.3 |
| 6 | <input type="checkbox"/> | 1.000 | 1.084 | 87982.57 | 0.0046 | P | 2.7 |
| 7 | <input type="checkbox"/> | 10.000 | 9.855 | 788882.90 | 0.0418 | P | 1.2 |
| 8 | <input type="checkbox"/> | 50.000 | 46.819 | 3766364.23 | 0.1987 | A | 6.1 |
| 9 | <input type="checkbox"/> | 100.000 | 101.604 | 7856290.70 | 0.4311 | A | 3.1 |
| 10 | <input type="checkbox"/> | | | 961.02 | 0.0001 | P | 9.0 |
| 11 | <input type="checkbox"/> | | | 76.74 | 0.0000 | P | 60.3 |

$y = 0.0042 * x + 3.8538E-006$

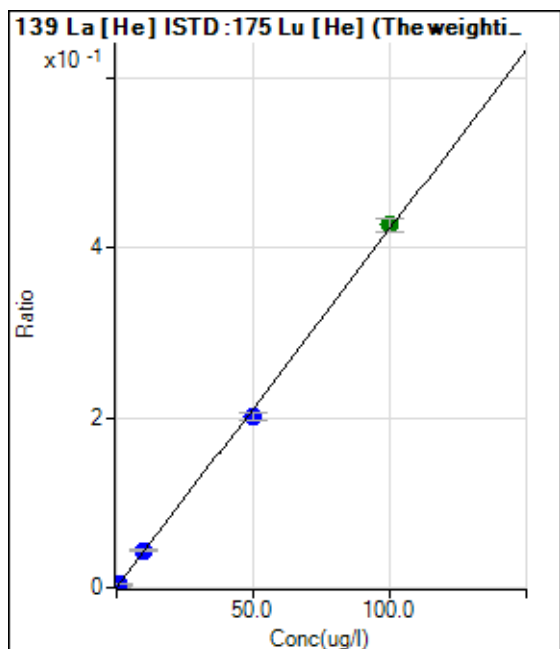
R = 0.9994

DL = 0.001388

BEC = 0.0009082

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 0.00 | 0.0000 | P | |
| 2 | <input type="checkbox"/> | 0.025 | 0.025 | 440.46 | 0.0001 | P | 21.3 |
| 3 | <input type="checkbox"/> | 0.050 | 0.047 | 860.91 | 0.0002 | P | 20.9 |
| 4 | <input type="checkbox"/> | 0.100 | 0.113 | 2028.88 | 0.0005 | P | 5.7 |
| 5 | <input type="checkbox"/> | 0.500 | 0.480 | 8644.51 | 0.0020 | P | 1.6 |
| 6 | <input type="checkbox"/> | 1.000 | 1.153 | 20036.53 | 0.0049 | P | 4.5 |
| 7 | <input type="checkbox"/> | 10.000 | 10.446 | 179368.18 | 0.0441 | P | 2.3 |
| 8 | <input type="checkbox"/> | 50.000 | 47.503 | 848884.24 | 0.2004 | P | 4.6 |
| 9 | <input type="checkbox"/> | 100.000 | 101.203 | 1761922.97 | 0.4270 | A | 3.9 |
| 10 | <input type="checkbox"/> | | | 130.13 | 0.0000 | P | 78.3 |
| 11 | <input type="checkbox"/> | | | 50.05 | 0.0000 | P | 36.8 |

$y = 0.0042 * x + 0.0000E+000$

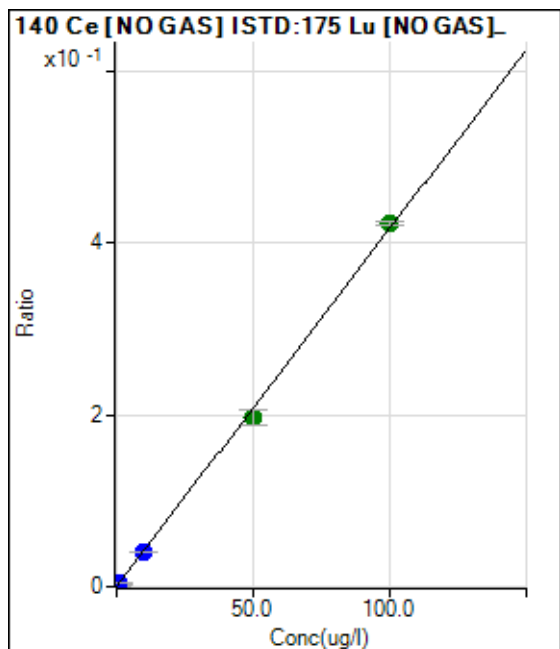
R = 0.9996

DL = 0

BEC = 0

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 63.40 | 0.0000 | P | 25.4 |
| 2 | <input type="checkbox"/> | 0.025 | 0.023 | 1872.03 | 0.0001 | P | 4.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.052 | 4204.88 | 0.0002 | P | 2.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.113 | 9185.46 | 0.0005 | P | 2.0 |
| 5 | <input type="checkbox"/> | 0.500 | 0.498 | 38258.47 | 0.0021 | P | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 | 1.095 | 87093.74 | 0.0046 | P | 1.7 |
| 7 | <input type="checkbox"/> | 10.000 | 9.822 | 770822.66 | 0.0409 | P | 1.8 |
| 8 | <input type="checkbox"/> | 50.000 | 47.257 | 3726770.83 | 0.1966 | A | 9.5 |
| 9 | <input type="checkbox"/> | 100.000 | 101.388 | 7687049.23 | 0.4218 | A | 1.2 |
| 10 | <input type="checkbox"/> | | | 1728.54 | 0.0001 | P | 2.6 |
| 11 | <input type="checkbox"/> | | | 273.62 | 0.0000 | P | 19.2 |

$y = 0.0042 * x + 3.3497E-006$

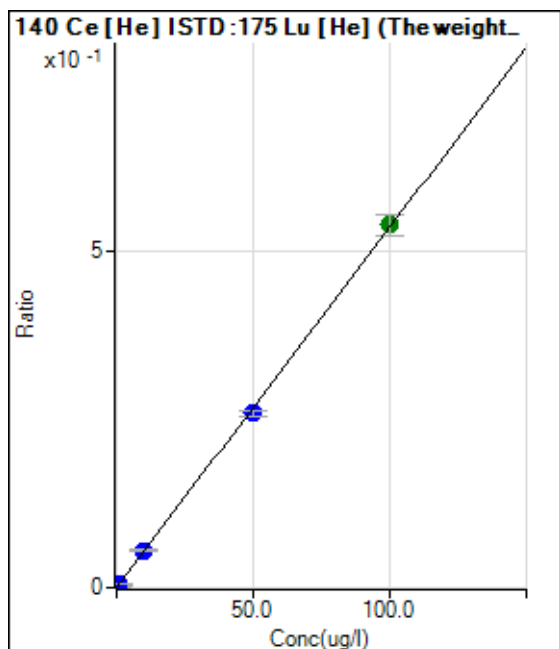
R = 0.9995

DL = 0.0006146

BEC = 0.0008051

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 20.02 | 0.0000 | P | 46.4 |
| 2 | <input type="checkbox"/> | 0.025 | 0.026 | 610.64 | 0.0001 | P | 18.1 |
| 3 | <input type="checkbox"/> | 0.050 | 0.050 | 1184.60 | 0.0003 | P | 10.0 |
| 4 | <input type="checkbox"/> | 0.100 | 0.112 | 2562.85 | 0.0006 | P | 6.8 |
| 5 | <input type="checkbox"/> | 0.500 | 0.460 | 10544.32 | 0.0025 | P | 3.9 |
| 6 | <input type="checkbox"/> | 1.000 | 1.156 | 25556.69 | 0.0062 | P | 3.3 |
| 7 | <input type="checkbox"/> | 10.000 | 10.364 | 226154.93 | 0.0556 | P | 3.5 |
| 8 | <input type="checkbox"/> | 50.000 | 48.496 | 1101728.25 | 0.2601 | P | 3.2 |
| 9 | <input type="checkbox"/> | 100.000 | 100.714 | 2227787.16 | 0.5401 | A | 5.6 |
| 10 | <input type="checkbox"/> | | | 593.96 | 0.0002 | P | 10.3 |
| 11 | <input type="checkbox"/> | | | 33.37 | 0.0000 | P | 63.6 |

$y = 0.0054 * x + 4.7545E-006$

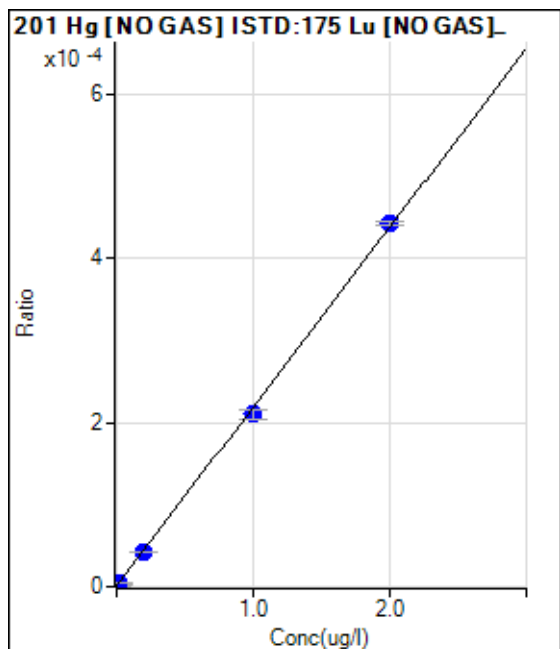
R = 0.9998

DL = 0.001233

BEC = 0.0008865

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|---------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 13.33 | 0.0000 | P | 52.5 |
| 2 | <input type="checkbox"/> | | | 22.00 | 0.0000 | P | 24.2 |
| 3 | <input type="checkbox"/> | 0.001 | 0.002 | 22.00 | 0.0000 | P | 28.1 |
| 4 | <input type="checkbox"/> | 0.002 | 0.004 | 29.33 | 0.0000 | P | 27.7 |
| 5 | <input type="checkbox"/> | 0.010 | 0.010 | 52.32 | 0.0000 | P | 14.3 |
| 6 | <input type="checkbox"/> | 0.020 | 0.021 | 100.98 | 0.0000 | P | 11.0 |
| 7 | <input type="checkbox"/> | 0.200 | 0.191 | 797.20 | 0.0000 | P | 2.7 |
| 8 | <input type="checkbox"/> | 1.000 | 0.960 | 3981.73 | 0.0002 | P | 5.3 |
| 9 | <input type="checkbox"/> | 2.000 | 2.021 | 8049.53 | 0.0004 | P | 1.2 |
| 10 | <input type="checkbox"/> | | | 55.66 | 0.0000 | P | 5.0 |
| 11 | <input type="checkbox"/> | | | 29.32 | 0.0000 | P | 9.8 |

$y = 2.1819E-004 * x + 7.0060E-007$

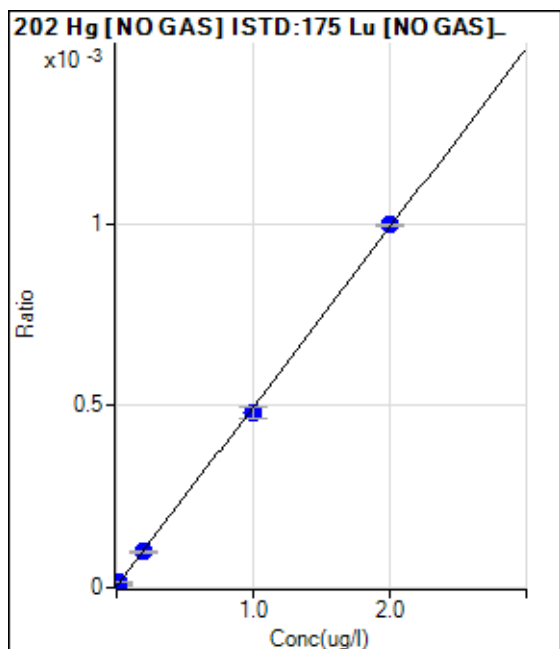
R = 0.9997

DL = 0.005055

BEC = 0.003211

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 70.99 | 0.0000 | P | 17.2 |
| 2 | <input type="checkbox"/> | | | 72.32 | 0.0000 | P | 19.0 |
| 3 | <input type="checkbox"/> | 0.001 | 0.000 | 73.32 | 0.0000 | P | 12.0 |
| 4 | <input type="checkbox"/> | 0.002 | 0.002 | 93.98 | 0.0000 | P | 23.2 |
| 5 | <input type="checkbox"/> | 0.010 | 0.009 | 148.64 | 0.0000 | P | 6.6 |
| 6 | <input type="checkbox"/> | 0.020 | 0.023 | 287.28 | 0.0000 | P | 6.6 |
| 7 | <input type="checkbox"/> | 0.200 | 0.195 | 1883.74 | 0.0001 | P | 4.1 |
| 8 | <input type="checkbox"/> | 1.000 | 0.970 | 9139.59 | 0.0005 | P | 6.2 |
| 9 | <input type="checkbox"/> | 2.000 | 2.015 | 18185.92 | 0.0010 | P | 0.6 |
| 10 | <input type="checkbox"/> | | | 202.96 | 0.0000 | P | 8.2 |
| 11 | <input type="checkbox"/> | | | 109.65 | 0.0000 | P | 7.3 |

$y = 4.9327E-004 * x + 3.7441E-006$

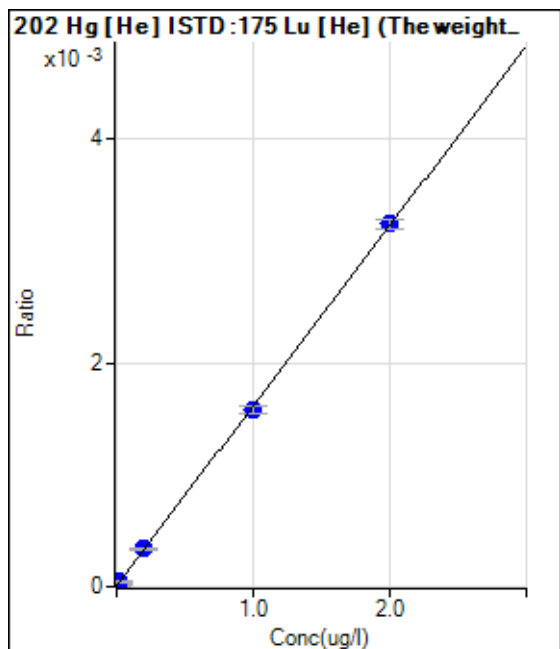
R = 0.9999

DL = 0.003912

BEC = 0.00759

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 25.00 | 0.0000 | P | 36.0 |
| 2 | <input type="checkbox"/> | | | 36.66 | 0.0000 | P | 20.0 |
| 3 | <input type="checkbox"/> | 0.001 | 0.001 | 34.66 | 0.0000 | P | 29.1 |
| 4 | <input type="checkbox"/> | 0.002 | 0.003 | 44.32 | 0.0000 | P | 11.6 |
| 5 | <input type="checkbox"/> | 0.010 | 0.010 | 97.65 | 0.0000 | P | 11.1 |
| 6 | <input type="checkbox"/> | 0.020 | 0.023 | 179.63 | 0.0000 | P | 9.4 |
| 7 | <input type="checkbox"/> | 0.200 | 0.204 | 1362.46 | 0.0003 | P | 3.9 |
| 8 | <input type="checkbox"/> | 1.000 | 0.978 | 6686.81 | 0.0016 | P | 4.3 |
| 9 | <input type="checkbox"/> | 2.000 | 2.011 | 13373.19 | 0.0032 | P | 2.7 |
| 10 | <input type="checkbox"/> | | | 95.31 | 0.0000 | P | 20.1 |
| 11 | <input type="checkbox"/> | | | 58.32 | 0.0000 | P | 9.0 |

$y = 0.0016 * x + 6.0600E-006$

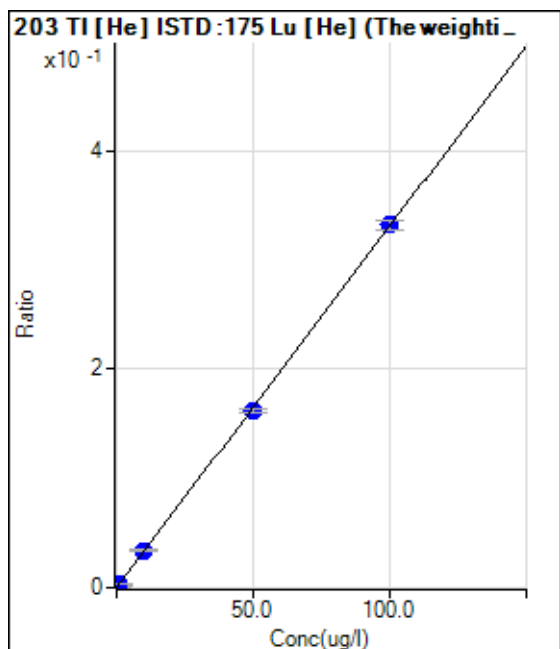
R = 0.9999

DL = 0.004071

BEC = 0.003767

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 90.65 | 0.0000 | P | 20.8 |
| 2 | <input type="checkbox"/> | 0.025 | 0.022 | 388.60 | 0.0001 | P | 13.7 |
| 3 | <input type="checkbox"/> | 0.050 | 0.053 | 856.52 | 0.0002 | P | 5.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.121 | 1797.76 | 0.0004 | P | 2.5 |
| 5 | <input type="checkbox"/> | 0.500 | 0.496 | 7074.94 | 0.0017 | P | 1.5 |
| 6 | <input type="checkbox"/> | 1.000 | 1.119 | 15302.69 | 0.0037 | P | 4.7 |
| 7 | <input type="checkbox"/> | 10.000 | 10.308 | 138616.96 | 0.0341 | P | 4.0 |
| 8 | <input type="checkbox"/> | 50.000 | 49.110 | 687375.91 | 0.1623 | P | 1.9 |
| 9 | <input type="checkbox"/> | 100.000 | 100.413 | 1369146.39 | 0.3317 | P | 2.5 |
| 10 | <input type="checkbox"/> | | | 13293744.48 | 3.4881 | A | 7.7 |
| 11 | <input type="checkbox"/> | | | 1905.75 | 0.0004 | P | 1.9 |

$y = 0.0033 * x + 2.1771E-005$

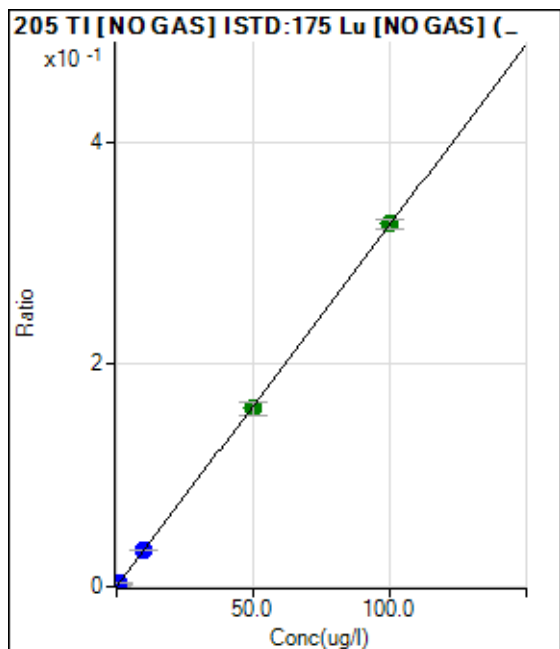
R = 0.9999

DL = 0.004117

BEC = 0.00659

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 304.45 | 0.0000 | P | 12.2 |
| 2 | <input type="checkbox"/> | 0.025 | 0.024 | 1781.23 | 0.0001 | P | 1.1 |
| 3 | <input type="checkbox"/> | 0.050 | 0.053 | 3637.14 | 0.0002 | P | 1.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.115 | 7504.16 | 0.0004 | P | 7.6 |
| 5 | <input type="checkbox"/> | 0.500 | 0.511 | 30949.45 | 0.0017 | P | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 | 1.113 | 69484.56 | 0.0036 | P | 0.2 |
| 7 | <input type="checkbox"/> | 10.000 | 10.180 | 625052.96 | 0.0331 | P | 1.9 |
| 8 | <input type="checkbox"/> | 50.000 | 49.266 | 3040418.39 | 0.1603 | A | 7.1 |
| 9 | <input type="checkbox"/> | 100.000 | 100.348 | 5950839.98 | 0.3265 | A | 2.5 |
| 10 | <input type="checkbox"/> | | | 57622814.70 | 3.2009 | A | 2.7 |
| 11 | <input type="checkbox"/> | | | 8047.76 | 0.0004 | P | 1.0 |

$y = 0.0033 * x + 1.6066E-005$

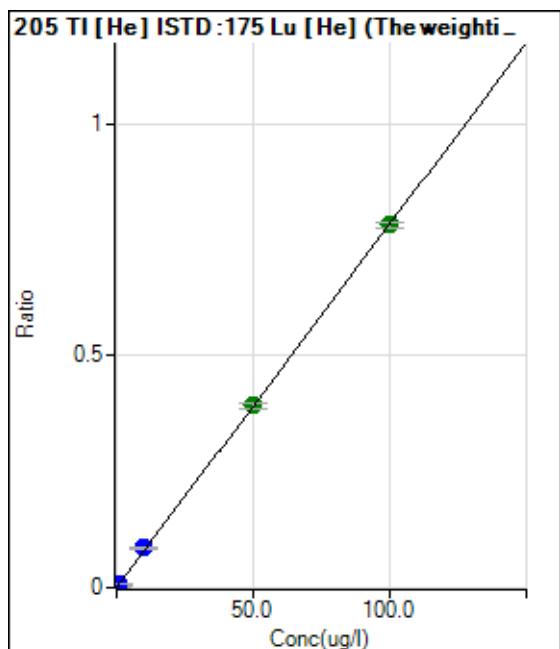
R = 1.0000

DL = 0.001811

BEC = 0.004937

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 220.63 | 0.0001 | P | 4.2 |
| 2 | <input type="checkbox"/> | 0.025 | 0.026 | 1061.83 | 0.0003 | P | 3.3 |
| 3 | <input type="checkbox"/> | 0.050 | 0.052 | 2002.41 | 0.0005 | P | 4.1 |
| 4 | <input type="checkbox"/> | 0.100 | 0.118 | 4171.09 | 0.0010 | P | 0.3 |
| 5 | <input type="checkbox"/> | 0.500 | 0.495 | 16762.64 | 0.0039 | P | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 | 1.182 | 38305.30 | 0.0093 | P | 6.1 |
| 7 | <input type="checkbox"/> | 10.000 | 10.995 | 350452.67 | 0.0862 | P | 3.6 |
| 8 | <input type="checkbox"/> | 50.000 | 50.038 | 1660066.77 | 0.3919 | A | 3.2 |
| 9 | <input type="checkbox"/> | 100.000 | 99.879 | 3229377.98 | 0.7822 | A | 1.3 |
| 10 | <input type="checkbox"/> | | | 31536648.62 | 8.2742 | A | 7.2 |
| 11 | <input type="checkbox"/> | | | 4501.13 | 0.0011 | P | 1.4 |

$y = 0.0078 * x + 5.2966E-005$

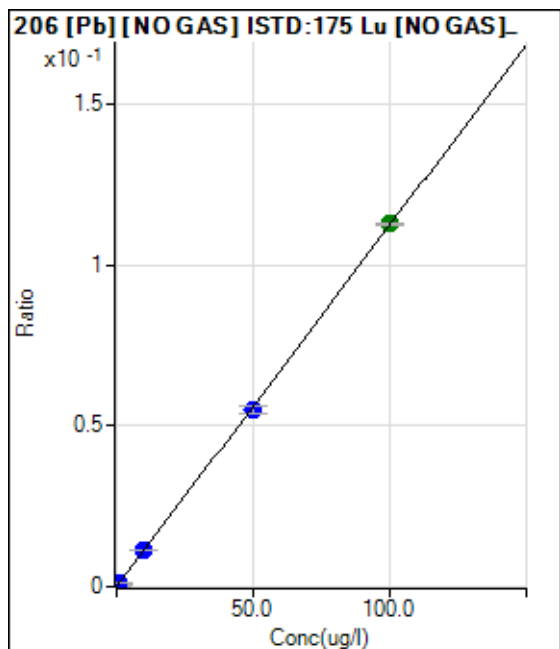
R = 1.0000

DL = 0.0008592

BEC = 0.006763

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 62.22 | 0.0000 | P | 26.2 |
| 2 | <input type="checkbox"/> | 0.025 | 0.023 | 556.68 | 0.0000 | P | 7.2 |
| 3 | <input type="checkbox"/> | 0.050 | 0.055 | 1240.06 | 0.0001 | P | 0.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.113 | 2516.90 | 0.0001 | P | 4.6 |
| 5 | <input type="checkbox"/> | 0.500 | 0.508 | 10581.57 | 0.0006 | P | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 | 1.120 | 24115.99 | 0.0013 | P | 1.8 |
| 7 | <input type="checkbox"/> | 10.000 | 10.152 | 215330.13 | 0.0114 | P | 0.2 |
| 8 | <input type="checkbox"/> | 50.000 | 49.005 | 1044691.19 | 0.0551 | P | 4.6 |
| 9 | <input type="checkbox"/> | 100.000 | 100.481 | 2058486.60 | 0.1130 | A | 0.9 |
| 10 | <input type="checkbox"/> | | | 19235519.99 | 1.0686 | A | 1.9 |
| 11 | <input type="checkbox"/> | | | 2273.53 | 0.0001 | P | 9.9 |

$y = 0.0011 * x + 3.2881E-006$

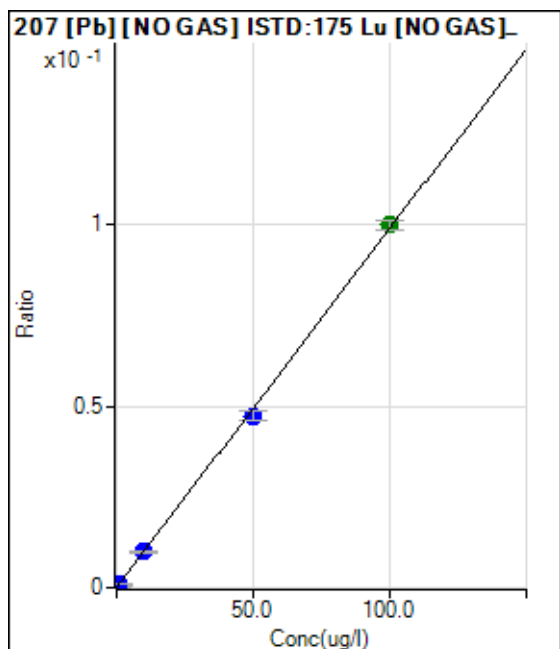
R = 0.9999

DL = 0.002297

BEC = 0.002925

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 47.78 | 0.0000 | P | 53.5 |
| 2 | <input type="checkbox"/> | 0.025 | 0.025 | 510.01 | 0.0000 | P | 7.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.052 | 1032.27 | 0.0001 | P | 2.0 |
| 4 | <input type="checkbox"/> | 0.100 | 0.110 | 2156.84 | 0.0001 | P | 6.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.500 | 9166.16 | 0.0005 | P | 3.2 |
| 6 | <input type="checkbox"/> | 1.000 | 1.087 | 20587.41 | 0.0011 | P | 1.2 |
| 7 | <input type="checkbox"/> | 10.000 | 10.001 | 186614.73 | 0.0099 | P | 2.2 |
| 8 | <input type="checkbox"/> | 50.000 | 47.810 | 896386.62 | 0.0473 | P | 5.5 |
| 9 | <input type="checkbox"/> | 100.000 | 101.094 | 1822185.60 | 0.1000 | A | 2.8 |
| 10 | <input type="checkbox"/> | | | 16674551.97 | 0.9264 | A | 2.1 |
| 11 | <input type="checkbox"/> | | | 1999.04 | 0.0001 | P | 6.8 |

$y = 9.8911E-004 * x + 2.5112E-006$

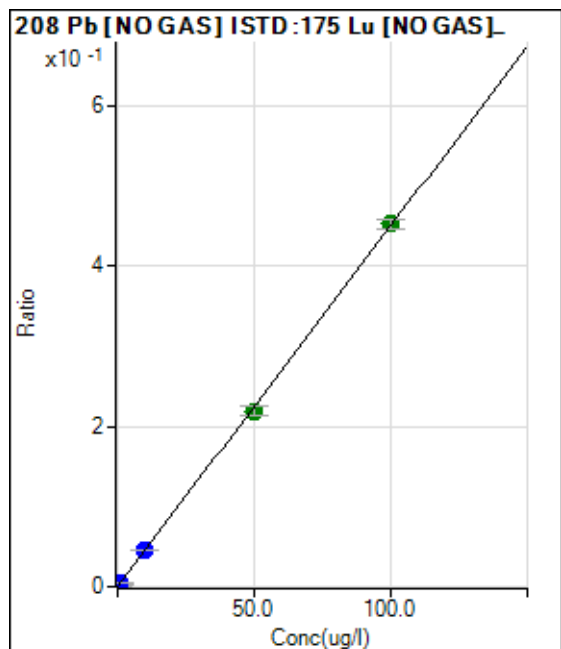
R = 0.9997

DL = 0.004071

BEC = 0.002539

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 217.78 | 0.0000 | P | 19.1 |
| 2 | <input type="checkbox"/> | 0.025 | 0.024 | 2273.42 | 0.0001 | P | 5.1 |
| 3 | <input type="checkbox"/> | 0.050 | 0.054 | 4887.03 | 0.0003 | P | 1.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.113 | 10022.51 | 0.0005 | P | 4.7 |
| 5 | <input type="checkbox"/> | 0.500 | 0.508 | 42351.48 | 0.0023 | P | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 | 1.113 | 95846.85 | 0.0050 | P | 1.6 |
| 7 | <input type="checkbox"/> | 10.000 | 10.135 | 860138.87 | 0.0456 | P | 1.3 |
| 8 | <input type="checkbox"/> | 50.000 | 48.625 | 4146515.59 | 0.2188 | A | 5.3 |
| 9 | <input type="checkbox"/> | 100.000 | 100.673 | 8252555.33 | 0.4529 | A | 2.6 |
| 10 | <input type="checkbox"/> | | | 76760109.13 | 4.2646 | A | 1.7 |
| 11 | <input type="checkbox"/> | | | 9221.20 | 0.0005 | P | 5.2 |

$y = 0.0045 * x + 1.1481E-005$

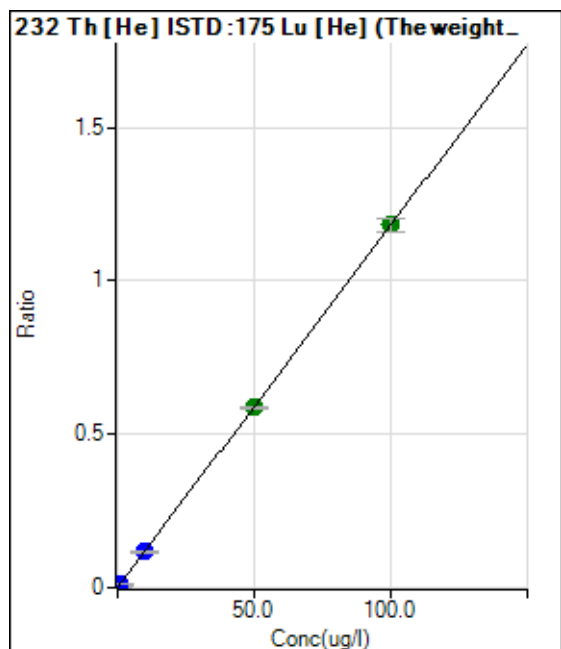
R = 0.9999

DL = 0.001461

BEC = 0.002552

Weight: 1/y

Min Conc: <None>



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 961.85 | 0.0002 | P | 0.5 |
| 2 | <input type="checkbox"/> | 0.025 | 0.018 | 1848.42 | 0.0004 | P | 5.1 |
| 3 | <input type="checkbox"/> | 0.050 | 0.037 | 2884.39 | 0.0007 | P | 0.8 |
| 4 | <input type="checkbox"/> | 0.100 | 0.111 | 6526.82 | 0.0015 | P | 3.6 |
| 5 | <input type="checkbox"/> | 0.500 | 0.388 | 20499.39 | 0.0048 | P | 1.4 |
| 6 | <input type="checkbox"/> | 1.000 | 0.949 | 47008.56 | 0.0114 | P | 5.1 |
| 7 | <input type="checkbox"/> | 10.000 | 9.923 | 477172.57 | 0.1173 | P | 2.8 |
| 8 | <input type="checkbox"/> | 50.000 | 49.667 | 2483195.76 | 0.5861 | A | 0.4 |
| 9 | <input type="checkbox"/> | 100.000 | 100.175 | 4875994.14 | 1.1818 | A | 3.8 |
| 10 | <input type="checkbox"/> | | | 48222717.19 | 12.6549 | A | 7.7 |
| 11 | <input type="checkbox"/> | | | 17182.57 | 0.0040 | P | 2.4 |

$y = 0.0118 * x + 2.3117E-004$

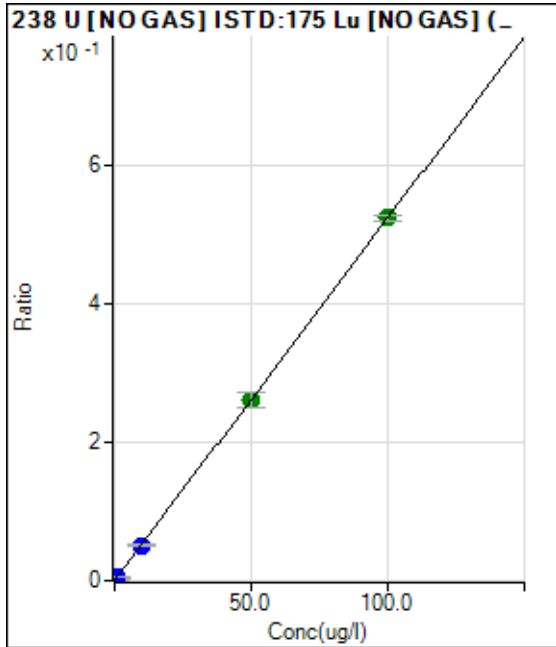
R = 1.0000

DL = 0.0002808

BEC = 0.0196

Weight: 1/y

Min Conc: <None>



| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|---------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 126.31 | 0.0000 | P | 9.5 |
| 2 | <input type="checkbox"/> | 0.025 | 0.023 | 2416.39 | 0.0001 | P | 0.3 |
| 3 | <input type="checkbox"/> | 0.050 | 0.051 | 5244.22 | 0.0003 | P | 1.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.109 | 11098.64 | 0.0006 | P | 6.5 |
| 5 | <input type="checkbox"/> | 0.500 | 0.488 | 47167.26 | 0.0026 | P | 2.1 |
| 6 | <input type="checkbox"/> | 1.000 | 1.061 | 106120.24 | 0.0056 | P | 1.2 |
| 7 | <input type="checkbox"/> | 10.000 | 9.800 | 966771.58 | 0.0513 | P | 1.3 |
| 8 | <input type="checkbox"/> | 50.000 | 49.805 | 4935120.43 | 0.2605 | A | 8.3 |
| 9 | <input type="checkbox"/> | 100.000 | 100.117 | 9540652.06 | 0.5236 | A | 1.5 |
| 10 | <input type="checkbox"/> | | | 92804104.76 | 5.1559 | A | 1.4 |
| 11 | <input type="checkbox"/> | | | 12988.45 | 0.0007 | P | 2.8 |

$y = 0.0052 * x + 6.6582E-006$

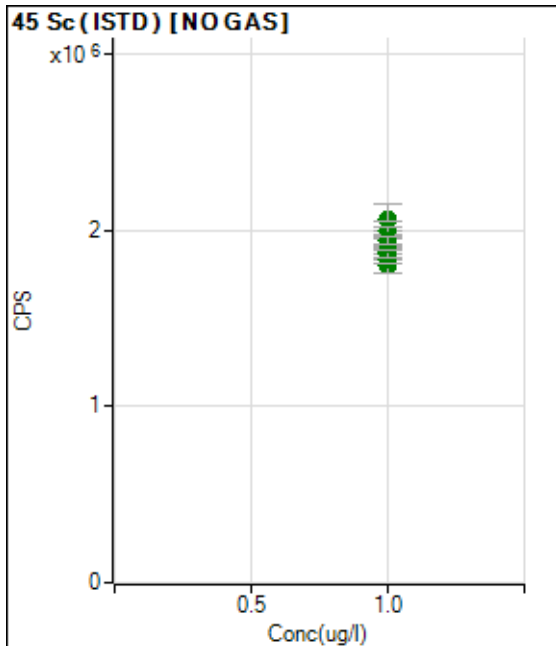
R = 1.0000

DL = 0.0003647

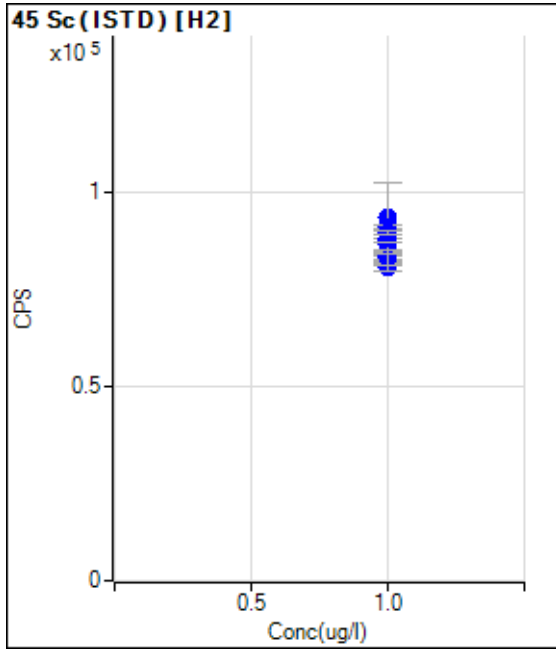
BEC = 0.001273

Weight: 1/y

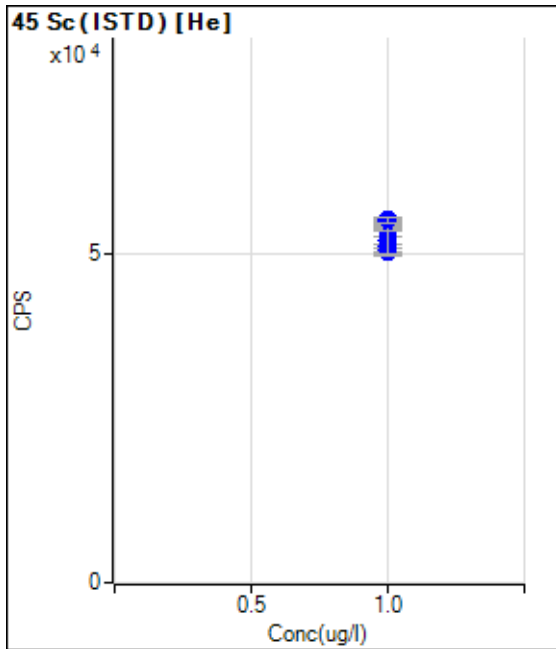
Min Conc: <None>



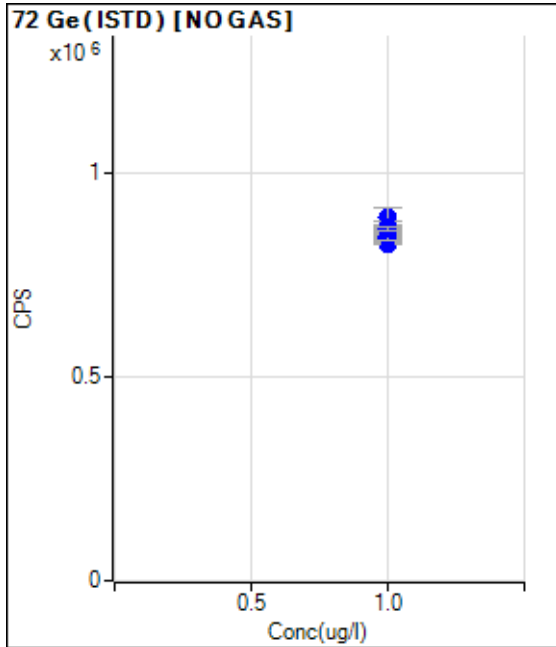
| | Rjc t | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 1866031.52 | | A | 3.2 |
| 2 | <input type="checkbox"/> | 1.000 | | 1800689.84 | | A | 4.9 |
| 3 | <input type="checkbox"/> | 1.000 | | 1836810.46 | | A | 3.2 |
| 4 | <input type="checkbox"/> | 1.000 | | 2057414.54 | | A | 8.8 |
| 5 | <input type="checkbox"/> | 1.000 | | 1867226.56 | | A | 2.4 |
| 6 | <input type="checkbox"/> | 1.000 | | 1877940.98 | | A | 3.6 |
| 7 | <input type="checkbox"/> | 1.000 | | 1919867.00 | | A | 3.9 |
| 8 | <input type="checkbox"/> | 1.000 | | 1968490.27 | | A | 8.4 |
| 9 | <input type="checkbox"/> | 1.000 | | 1974193.67 | | A | 2.1 |
| 10 | <input type="checkbox"/> | 1.000 | | 1996029.05 | | A | 2.5 |
| 11 | <input type="checkbox"/> | 1.000 | | 1938703.53 | | A | 2.3 |



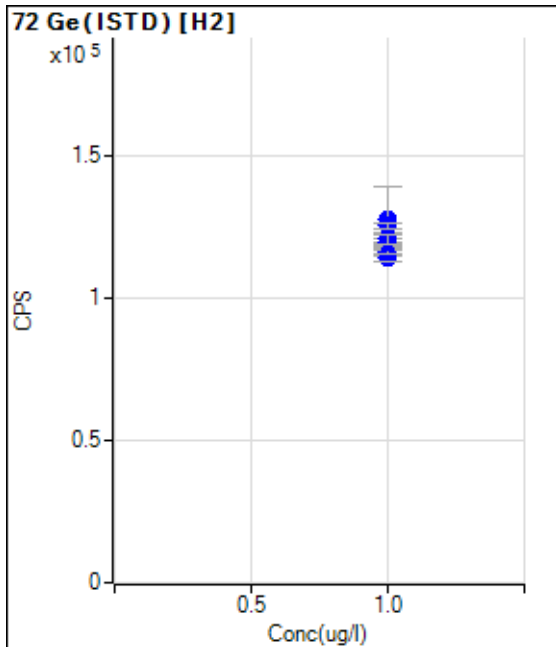
| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|----------|-------|------|------|
| 1 | <input type="checkbox"/> | 1.000 | | 82592.20 | | P | 2.6 |
| 2 | <input type="checkbox"/> | 1.000 | | 80555.98 | | P | 2.8 |
| 3 | <input type="checkbox"/> | 1.000 | | 83378.40 | | P | 2.2 |
| 4 | <input type="checkbox"/> | 1.000 | | 87492.60 | | P | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 | | 83423.32 | | P | 2.6 |
| 6 | <input type="checkbox"/> | 1.000 | | 83105.09 | | P | 4.1 |
| 7 | <input type="checkbox"/> | 1.000 | | 86694.52 | | P | 3.3 |
| 8 | <input type="checkbox"/> | 1.000 | | 93349.92 | | P | 19.7 |
| 9 | <input type="checkbox"/> | 1.000 | | 90908.97 | | P | 1.0 |
| 10 | <input type="checkbox"/> | 1.000 | | 88039.72 | | P | 1.9 |
| 11 | <input type="checkbox"/> | 1.000 | | 89738.92 | | P | 1.0 |



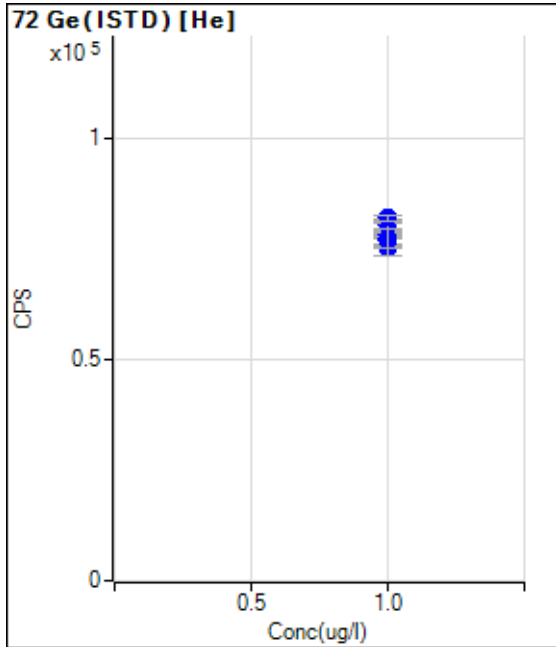
| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|----------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 50304.07 | | P | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 | | 50945.77 | | P | 2.1 |
| 3 | <input type="checkbox"/> | 1.000 | | 50816.70 | | P | 2.7 |
| 4 | <input type="checkbox"/> | 1.000 | | 54613.84 | | P | 2.0 |
| 5 | <input type="checkbox"/> | 1.000 | | 51212.02 | | P | 1.7 |
| 6 | <input type="checkbox"/> | 1.000 | | 50703.94 | | P | 3.6 |
| 7 | <input type="checkbox"/> | 1.000 | | 53552.13 | | P | 3.0 |
| 8 | <input type="checkbox"/> | 1.000 | | 53705.24 | | P | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 | | 54980.30 | | P | 1.5 |
| 10 | <input type="checkbox"/> | 1.000 | | 52171.66 | | P | 8.1 |
| 11 | <input type="checkbox"/> | 1.000 | | 55220.33 | | P | 1.4 |



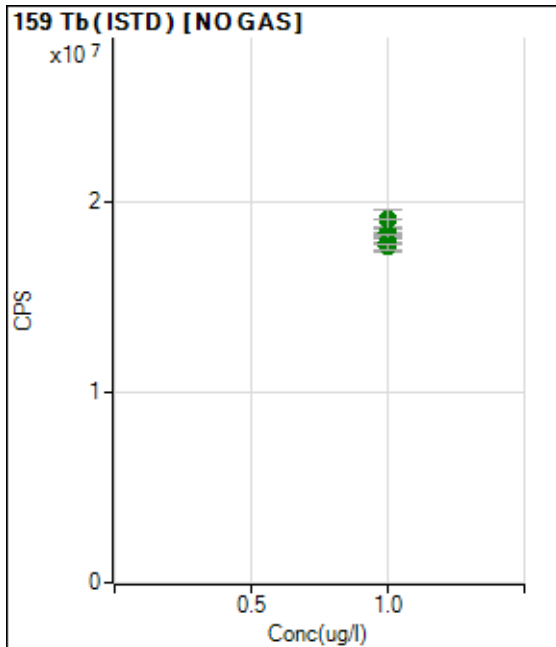
| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|-----------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 845911.32 | | P | 2.5 |
| 2 | <input type="checkbox"/> | 1.000 | | 841528.50 | | P | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 | | 841237.01 | | P | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 | | 888115.24 | | P | 6.0 |
| 5 | <input type="checkbox"/> | 1.000 | | 824017.27 | | P | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 | | 839997.49 | | P | 1.5 |
| 7 | <input type="checkbox"/> | 1.000 | | 840045.76 | | P | 2.9 |
| 8 | <input type="checkbox"/> | 1.000 | | 862743.94 | | P | 4.5 |
| 9 | <input type="checkbox"/> | 1.000 | | 868253.57 | | P | 0.4 |
| 10 | <input type="checkbox"/> | 1.000 | | 842499.67 | | P | 1.9 |
| 11 | <input type="checkbox"/> | 1.000 | | 861709.69 | | P | 0.9 |



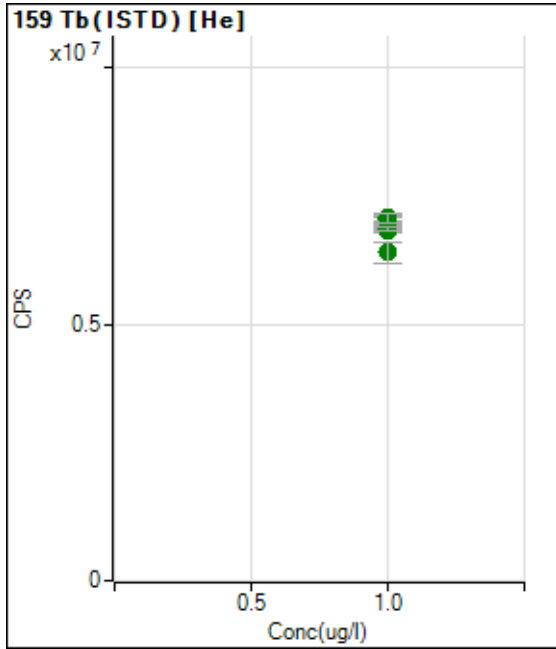
| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|-----------|-------|------|------|
| 1 | <input type="checkbox"/> | 1.000 | | 118513.05 | | P | 1.8 |
| 2 | <input type="checkbox"/> | 1.000 | | 113965.14 | | P | 1.9 |
| 3 | <input type="checkbox"/> | 1.000 | | 117594.67 | | P | 3.2 |
| 4 | <input type="checkbox"/> | 1.000 | | 121297.02 | | P | 2.4 |
| 5 | <input type="checkbox"/> | 1.000 | | 116843.60 | | P | 1.8 |
| 6 | <input type="checkbox"/> | 1.000 | | 116146.56 | | P | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 | | 118829.35 | | P | 2.0 |
| 8 | <input type="checkbox"/> | 1.000 | | 127568.82 | | P | 18.3 |
| 9 | <input type="checkbox"/> | 1.000 | | 119937.45 | | P | 2.3 |
| 10 | <input type="checkbox"/> | 1.000 | | 120895.42 | | P | 2.8 |
| 11 | <input type="checkbox"/> | 1.000 | | 125615.01 | | P | 1.4 |



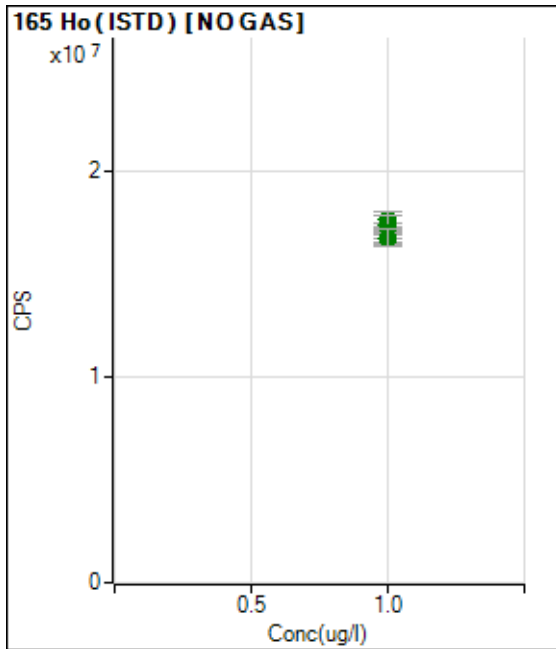
| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|----------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 75477.75 | | P | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 | | 76836.97 | | P | 2.2 |
| 3 | <input type="checkbox"/> | 1.000 | | 78123.92 | | P | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 | | 80460.34 | | P | 3.4 |
| 5 | <input type="checkbox"/> | 1.000 | | 77970.41 | | P | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 | | 78413.25 | | P | 2.3 |
| 7 | <input type="checkbox"/> | 1.000 | | 76992.30 | | P | 4.4 |
| 8 | <input type="checkbox"/> | 1.000 | | 80304.58 | | P | 1.6 |
| 9 | <input type="checkbox"/> | 1.000 | | 81697.32 | | P | 0.4 |
| 10 | <input type="checkbox"/> | 1.000 | | 77424.33 | | P | 9.5 |
| 11 | <input type="checkbox"/> | 1.000 | | 82100.36 | | P | 1.8 |



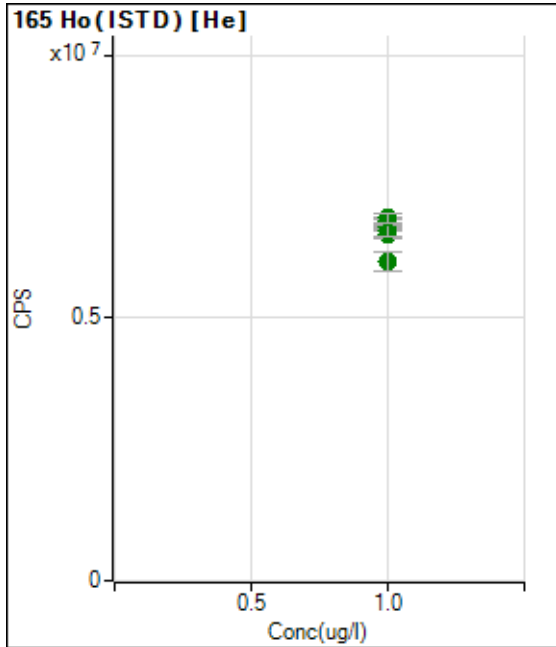
| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 18265699.85 | | A | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 | | 18325372.85 | | A | 2.5 |
| 3 | <input type="checkbox"/> | 1.000 | | 18102520.84 | | A | 2.5 |
| 4 | <input type="checkbox"/> | 1.000 | | 19038794.16 | | A | 5.2 |
| 5 | <input type="checkbox"/> | 1.000 | | 18156208.69 | | A | 2.7 |
| 6 | <input type="checkbox"/> | 1.000 | | 18363999.39 | | A | 3.0 |
| 7 | <input type="checkbox"/> | 1.000 | | 18094535.98 | | A | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 | | 18236644.96 | | A | 9.6 |
| 9 | <input type="checkbox"/> | 1.000 | | 18163901.38 | | A | 0.4 |
| 10 | <input type="checkbox"/> | 1.000 | | 17832067.27 | | A | 4.6 |
| 11 | <input type="checkbox"/> | 1.000 | | 17633509.14 | | A | 1.7 |



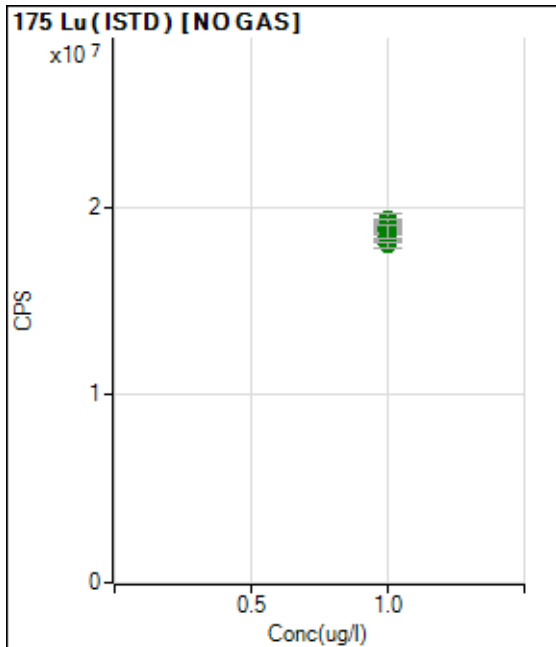
| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 7058065.37 | | A | 1.5 |
| 2 | <input type="checkbox"/> | 1.000 | | 6897685.36 | | A | 1.5 |
| 3 | <input type="checkbox"/> | 1.000 | | 7062696.25 | | A | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 | | 6871243.19 | | A | 1.8 |
| 5 | <input type="checkbox"/> | 1.000 | | 6979098.54 | | A | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 | | 7077545.63 | | A | 2.6 |
| 7 | <input type="checkbox"/> | 1.000 | | 6990582.00 | | A | 4.5 |
| 8 | <input type="checkbox"/> | 1.000 | | 6842968.61 | | A | 1.0 |
| 9 | <input type="checkbox"/> | 1.000 | | 6849415.95 | | A | 1.0 |
| 10 | <input type="checkbox"/> | 1.000 | | 6401799.49 | | A | 6.5 |
| 11 | <input type="checkbox"/> | 1.000 | | 7075535.44 | | A | 2.6 |



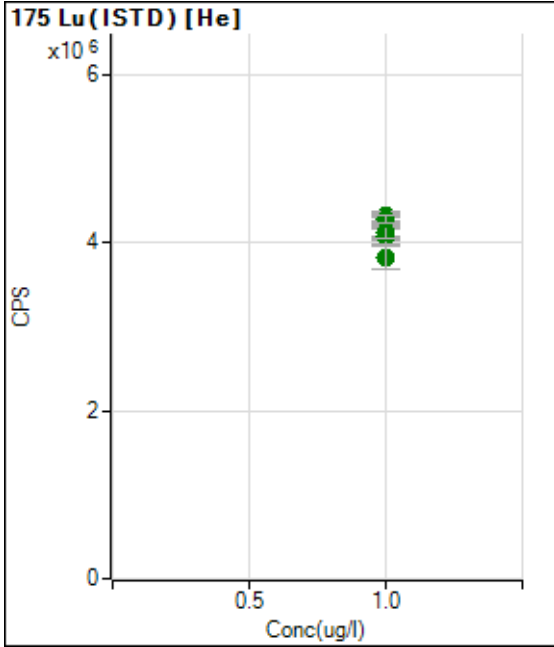
| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 16967684.17 | | A | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 | | 16957080.65 | | A | 3.2 |
| 3 | <input type="checkbox"/> | 1.000 | | 17347220.15 | | A | 1.6 |
| 4 | <input type="checkbox"/> | 1.000 | | 17622776.11 | | A | 5.0 |
| 5 | <input type="checkbox"/> | 1.000 | | 17034432.58 | | A | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 | | 17232300.86 | | A | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 | | 16754863.65 | | A | 3.4 |
| 8 | <input type="checkbox"/> | 1.000 | | 17143160.58 | | A | 7.9 |
| 9 | <input type="checkbox"/> | 1.000 | | 17025001.70 | | A | 1.7 |
| 10 | <input type="checkbox"/> | 1.000 | | 16753876.00 | | A | 2.7 |
| 11 | <input type="checkbox"/> | 1.000 | | 16754243.24 | | A | 5.1 |



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 6666509.81 | | A | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 | | 6805864.84 | | A | 2.8 |
| 3 | <input type="checkbox"/> | 1.000 | | 6750731.85 | | A | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 | | 6828977.12 | | A | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 | | 6750317.89 | | A | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 | | 6686893.53 | | A | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 | | 6738980.93 | | A | 5.6 |
| 8 | <input type="checkbox"/> | 1.000 | | 6601981.02 | | A | 3.2 |
| 9 | <input type="checkbox"/> | 1.000 | | 6655643.95 | | A | 3.1 |
| 10 | <input type="checkbox"/> | 1.000 | | 6056344.05 | | A | 6.0 |
| 11 | <input type="checkbox"/> | 1.000 | | 6900977.30 | | A | 2.6 |



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 18965751.33 | | A | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 | | 19044263.80 | | A | 2.0 |
| 3 | <input type="checkbox"/> | 1.000 | | 19182462.20 | | A | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 | | 19330347.58 | | A | 3.9 |
| 5 | <input type="checkbox"/> | 1.000 | | 18440651.04 | | A | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 | | 19104992.66 | | A | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 | | 18862227.40 | | A | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 | | 18979730.94 | | A | 3.7 |
| 9 | <input type="checkbox"/> | 1.000 | | 18223875.53 | | A | 0.7 |
| 10 | <input type="checkbox"/> | 1.000 | | 18001607.64 | | A | 1.8 |
| 11 | <input type="checkbox"/> | 1.000 | | 18729936.36 | | A | 3.6 |



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|----|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 4161096.47 | | A | 4.2 |
| 2 | <input type="checkbox"/> | 1.000 | | 4180241.14 | | A | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 | | 4323996.14 | | A | 2.5 |
| 4 | <input type="checkbox"/> | 1.000 | | 4255222.99 | | A | 4.3 |
| 5 | <input type="checkbox"/> | 1.000 | | 4264523.80 | | A | 2.1 |
| 6 | <input type="checkbox"/> | 1.000 | | 4121838.91 | | A | 4.1 |
| 7 | <input type="checkbox"/> | 1.000 | | 4071934.94 | | A | 4.4 |
| 8 | <input type="checkbox"/> | 1.000 | | 4237061.65 | | A | 1.6 |
| 9 | <input type="checkbox"/> | 1.000 | | 4129636.89 | | A | 3.7 |
| 10 | <input type="checkbox"/> | 1.000 | | 3824036.77 | | A | 7.4 |
| 11 | <input type="checkbox"/> | 1.000 | | 4284266.51 | | A | 2.3 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 001BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 18:18:16
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName ---
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | | ug/l | 1853.73 |
| Be | 9 | 45 | 1 | NO GAS | | ug/l | 5.00 |
| B | 11 | 45 | 1 | NO GAS | | ug/l | 185.30 |
| Na | 23 | 45 | 3 | He | | ug/l | 10834.52 |
| Mg | 24 | 45 | 3 | He | | ug/l | 16.63 |
| Al | 27 | 45 | 1 | NO GAS | | ug/l | 1055.60 |
| Si | 28 | 45 | 2 | H2 | | ug/l | 37.32 |
| K | 39 | 72 | 3 | He | | ug/l | 2783.58 |
| Ca | 40 | 72 | 2 | H2 | | ug/l | 787.97 |
| Ti | 47 | 72 | 1 | NO GAS | | ug/l | 54.97 |
| V | 51 | 72 | 1 | NO GAS | | ug/l | -8869.43 |
| V | 51 | 72 | 3 | He | | ug/l | 135.56 |
| Cr | 52 | 72 | 1 | NO GAS | | ug/l | 13009.29 |
| Cr | 52 | 72 | 3 | He | | ug/l | 795.11 |
| Cr | 53 | 72 | 1 | NO GAS | | ug/l | 46264.68 |
| Mn | 55 | 72 | 1 | NO GAS | | ug/l | 1021.35 |
| Mn | 55 | 72 | 3 | He | | ug/l | 8.00 |
| Fe | 56 | 72 | 2 | H2 | | ug/l | 1624.29 |
| Fe | 56 | 72 | 3 | He | | ug/l | 2402.33 |
| Co | 59 | 72 | 1 | NO GAS | | ug/l | 73.19 |
| Ni | 60 | 72 | 1 | NO GAS | | ug/l | 156.36 |
| Ni | 60 | 72 | 3 | He | | ug/l | 45.55 |
| Ni | 62 | 72 | 1 | NO GAS | | ug/l | 482.40 |
| Cu | 63 | 72 | 1 | NO GAS | | ug/l | 267.28 |
| Cu | 63 | 72 | 3 | He | | ug/l | 104.31 |
| Cu | 65 | 72 | 1 | NO GAS | | ug/l | 115.98 |
| Zn | 66 | 72 | 1 | NO GAS | | ug/l | 3656.48 |
| Zn | 66 | 72 | 3 | He | | ug/l | 816.69 |
| As | 75 | 72 | 1 | NO GAS | | ug/l | 3308.75 |
| As | 75 | 72 | 3 | He | | ug/l | 5.00 |
| Se | 78 | 72 | 2 | H2 | | ug/l | 3.00 |
| Br | 79 | 72 | 1 | NO GAS | | ug/l | 51134.09 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 7347.12 |
| Se | 82 | 72 | 1 | NO GAS | | ug/l | 355.32 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6847.87 |
| Sr | 88 | 72 | 1 | NO GAS | | ug/l | 459.10 |
| Sr | 88 | 72 | 3 | He | | ug/l | 217.78 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | | ug/l | 170.00 |
| Mo | 95 | 72 | 3 | He | | ug/l | 63.33 |
| Mo | 98 | 72 | 1 | NO GAS | | ug/l | 294.18 |
| Ag | 107 | 72 | 1 | NO GAS | | ug/l | 1775.75 |
| Ag | 109 | 72 | 1 | NO GAS | | ug/l | 1678.43 |
| Cd | 111 | 159 | 1 | NO GAS | | ug/l | -27.81 |
| Cd | 111 | 159 | 3 | He | | ug/l | 0.00 |
| Cd | 114 | 159 | 1 | NO GAS | | ug/l | -204.05 |
| Cd | 114 | 159 | 3 | He | | ug/l | 2.11 |
| Sn | 118 | 159 | 1 | NO GAS | | ug/l | 2791.39 |
| Sn | 118 | 159 | 3 | He | | ug/l | 415.56 |
| Sb | 121 | 159 | 1 | NO GAS | | ug/l | 254.45 |
| Sb | 121 | 159 | 3 | He | | ug/l | 65.56 |
| Sb | 123 | 159 | 1 | NO GAS | | ug/l | 222.23 |
| Sb | 123 | 159 | 3 | He | | ug/l | 36.66 |
| Ba | 135 | 159 | 1 | NO GAS | | ug/l | 96.48 |
| Ba | 137 | 159 | 1 | NO GAS | | ug/l | 169.67 |
| La | 139 | 175 | 1 | NO GAS | | ug/l | 76.74 |
| La | 139 | 175 | 3 | He | | ug/l | 13.35 |
| Ce | 140 | 175 | 1 | NO GAS | | ug/l | 136.80 |
| Ce | 140 | 175 | 3 | He | | ug/l | 30.03 |
| Hg | 201 | 175 | 1 | NO GAS | | ug/l | 14.00 |
| Hg | 202 | 175 | 1 | NO GAS | | ug/l | 63.99 |
| Hg | 202 | 175 | 3 | He | | ug/l | 25.00 |
| Tl | 203 | 175 | 3 | He | | ug/l | 26.66 |
| Tl | 205 | 175 | 1 | NO GAS | | ug/l | 106.67 |
| Tl | 205 | 175 | 3 | He | | ug/l | 73.32 |
| [Pb] | 206 | 175 | 1 | NO GAS | | ug/l | 63.33 |
| [Pb] | 207 | 175 | 1 | NO GAS | | ug/l | 43.34 |
| Pb | 208 | 175 | 1 | NO GAS | | ug/l | 225.56 |
| Th | 232 | 175 | 3 | He | | ug/l | 654.55 |
| U | 238 | 175 | 1 | NO GAS | | ug/l | 121.98 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1933307.74 | |
| Sc | 45 | 2 | H2 | 90947.96 | |
| Sc | 45 | 3 | He | 52961.96 | |
| Ge | 72 | 1 | NO GAS | 862667.27 | |
| Ge | 72 | 2 | H2 | 131014.18 | |
| Ge | 72 | 3 | He | 78321.41 | |
| Tb | 159 | 1 | NO GAS | 17699480.32 | |
| Tb | 159 | 3 | He | 6878884.53 | |
| Ho | 165 | 1 | NO GAS | 16537407.03 | |
| Ho | 165 | 3 | He | 6539370.55 | |
| Lu | 175 | 1 | NO GAS | 17948940.60 | |
| Lu | 175 | 3 | He | 4173567.17 | |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 002BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 18:23:59
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName ---
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | | ug/l | 1795.07 |
| Be | 9 | 45 | 1 | NO GAS | | ug/l | 2.33 |
| B | 11 | 45 | 1 | NO GAS | | ug/l | 169.97 |
| Na | 23 | 45 | 3 | He | | ug/l | 10686.68 |
| Mg | 24 | 45 | 3 | He | | ug/l | 39.92 |
| Al | 27 | 45 | 1 | NO GAS | | ug/l | 1047.82 |
| Si | 28 | 45 | 2 | H2 | | ug/l | 27.99 |
| K | 39 | 72 | 3 | He | | ug/l | 3041.41 |
| Ca | 40 | 72 | 2 | H2 | | ug/l | 721.33 |
| Ti | 47 | 72 | 1 | NO GAS | | ug/l | 48.31 |
| V | 51 | 72 | 1 | NO GAS | | ug/l | -14001.27 |
| V | 51 | 72 | 3 | He | | ug/l | 80.00 |
| Cr | 52 | 72 | 1 | NO GAS | | ug/l | 11551.25 |
| Cr | 52 | 72 | 3 | He | | ug/l | 672.02 |
| Cr | 53 | 72 | 1 | NO GAS | | ug/l | 48983.53 |
| Mn | 55 | 72 | 1 | NO GAS | | ug/l | 698.63 |
| Mn | 55 | 72 | 3 | He | | ug/l | 6.00 |
| Fe | 56 | 72 | 2 | H2 | | ug/l | 1289.42 |
| Fe | 56 | 72 | 3 | He | | ug/l | 2040.79 |
| Co | 59 | 72 | 1 | NO GAS | | ug/l | 49.90 |
| Ni | 60 | 72 | 1 | NO GAS | | ug/l | 109.78 |
| Ni | 60 | 72 | 3 | He | | ug/l | 37.78 |
| Ni | 62 | 72 | 1 | NO GAS | | ug/l | 415.85 |
| Cu | 63 | 72 | 1 | NO GAS | | ug/l | 271.28 |
| Cu | 63 | 72 | 3 | He | | ug/l | 91.65 |
| Cu | 65 | 72 | 1 | NO GAS | | ug/l | 123.98 |
| Zn | 66 | 72 | 1 | NO GAS | | ug/l | 1833.07 |
| Zn | 66 | 72 | 3 | He | | ug/l | 402.23 |
| As | 75 | 72 | 1 | NO GAS | | ug/l | 3166.76 |
| As | 75 | 72 | 3 | He | | ug/l | 2.33 |
| Se | 78 | 72 | 2 | H2 | | ug/l | 3.00 |
| Br | 79 | 72 | 1 | NO GAS | | ug/l | 49790.07 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 7277.26 |
| Se | 82 | 72 | 1 | NO GAS | | ug/l | 291.45 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6371.98 |
| Sr | 88 | 72 | 1 | NO GAS | | ug/l | 465.75 |
| Sr | 88 | 72 | 3 | He | | ug/l | 223.34 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | | ug/l | 134.45 |
| Mo | 95 | 72 | 3 | He | | ug/l | 37.78 |
| Mo | 98 | 72 | 1 | NO GAS | | ug/l | 249.87 |
| Ag | 107 | 72 | 1 | NO GAS | | ug/l | 1757.09 |
| Ag | 109 | 72 | 1 | NO GAS | | ug/l | 1731.09 |
| Cd | 111 | 159 | 1 | NO GAS | | ug/l | -42.03 |
| Cd | 111 | 159 | 3 | He | | ug/l | 4.00 |
| Cd | 114 | 159 | 1 | NO GAS | | ug/l | -143.94 |
| Cd | 114 | 159 | 3 | He | | ug/l | 4.96 |
| Sn | 118 | 159 | 1 | NO GAS | | ug/l | 2555.16 |
| Sn | 118 | 159 | 3 | He | | ug/l | 408.90 |
| Sb | 121 | 159 | 1 | NO GAS | | ug/l | 288.89 |
| Sb | 121 | 159 | 3 | He | | ug/l | 50.00 |
| Sb | 123 | 159 | 1 | NO GAS | | ug/l | 256.67 |
| Sb | 123 | 159 | 3 | He | | ug/l | 34.44 |
| Ba | 135 | 159 | 1 | NO GAS | | ug/l | 59.88 |
| Ba | 137 | 159 | 1 | NO GAS | | ug/l | 116.44 |
| La | 139 | 175 | 1 | NO GAS | | ug/l | 43.38 |
| La | 139 | 175 | 3 | He | | ug/l | 20.02 |
| Ce | 140 | 175 | 1 | NO GAS | | ug/l | 110.11 |
| Ce | 140 | 175 | 3 | He | | ug/l | 26.69 |
| Hg | 201 | 175 | 1 | NO GAS | | ug/l | 14.67 |
| Hg | 202 | 175 | 1 | NO GAS | | ug/l | 60.66 |
| Hg | 202 | 175 | 3 | He | | ug/l | 21.66 |
| Tl | 203 | 175 | 3 | He | | ug/l | 32.66 |
| Tl | 205 | 175 | 1 | NO GAS | | ug/l | 108.89 |
| Tl | 205 | 175 | 3 | He | | ug/l | 68.65 |
| [Pb] | 206 | 175 | 1 | NO GAS | | ug/l | 54.45 |
| [Pb] | 207 | 175 | 1 | NO GAS | | ug/l | 55.55 |
| Pb | 208 | 175 | 1 | NO GAS | | ug/l | 242.22 |
| Th | 232 | 175 | 3 | He | | ug/l | 709.88 |
| U | 238 | 175 | 1 | NO GAS | | ug/l | 133.31 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1977948.21 | |
| Sc | 45 | 2 | H2 | 90628.60 | |
| Sc | 45 | 3 | He | 53205.90 | |
| Ge | 72 | 1 | NO GAS | 851384.03 | |
| Ge | 72 | 2 | H2 | 134141.09 | |
| Ge | 72 | 3 | He | 80615.74 | |
| Tb | 159 | 1 | NO GAS | 18382550.86 | |
| Tb | 159 | 3 | He | 6990948.04 | |
| Ho | 165 | 1 | NO GAS | 16917199.73 | |
| Ho | 165 | 3 | He | 6618253.44 | |
| Lu | 175 | 1 | NO GAS | 18673809.82 | |
| Lu | 175 | 3 | He | 4194630.94 | |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 003BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 18:29:43
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName ---
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | | ug/l | 1885.73 |
| Be | 9 | 45 | 1 | NO GAS | | ug/l | 4.33 |
| B | 11 | 45 | 1 | NO GAS | | ug/l | 165.97 |
| Na | 23 | 45 | 3 | He | | ug/l | 10536.59 |
| Mg | 24 | 45 | 3 | He | | ug/l | 53.23 |
| Al | 27 | 45 | 1 | NO GAS | | ug/l | 1054.48 |
| Si | 28 | 45 | 2 | H2 | | ug/l | 25.33 |
| K | 39 | 72 | 3 | He | | ug/l | 2782.47 |
| Ca | 40 | 72 | 2 | H2 | | ug/l | 706.34 |
| Ti | 47 | 72 | 1 | NO GAS | | ug/l | 38.31 |
| V | 51 | 72 | 1 | NO GAS | | ug/l | -15523.13 |
| V | 51 | 72 | 3 | He | | ug/l | 106.67 |
| Cr | 52 | 72 | 1 | NO GAS | | ug/l | 11654.37 |
| Cr | 52 | 72 | 3 | He | | ug/l | 449.12 |
| Cr | 53 | 72 | 1 | NO GAS | | ug/l | 47785.37 |
| Mn | 55 | 72 | 1 | NO GAS | | ug/l | 728.58 |
| Mn | 55 | 72 | 3 | He | | ug/l | 4.67 |
| Fe | 56 | 72 | 2 | H2 | | ug/l | 1007.88 |
| Fe | 56 | 72 | 3 | He | | ug/l | 1654.28 |
| Co | 59 | 72 | 1 | NO GAS | | ug/l | 106.46 |
| Ni | 60 | 72 | 1 | NO GAS | | ug/l | 129.74 |
| Ni | 60 | 72 | 3 | He | | ug/l | 31.11 |
| Ni | 62 | 72 | 1 | NO GAS | | ug/l | 349.31 |
| Cu | 63 | 72 | 1 | NO GAS | | ug/l | 248.62 |
| Cu | 63 | 72 | 3 | He | | ug/l | 89.98 |
| Cu | 65 | 72 | 1 | NO GAS | | ug/l | 117.31 |
| Zn | 66 | 72 | 1 | NO GAS | | ug/l | 1031.32 |
| Zn | 66 | 72 | 3 | He | | ug/l | 282.23 |
| As | 75 | 72 | 1 | NO GAS | | ug/l | 3102.20 |
| As | 75 | 72 | 3 | He | | ug/l | 2.33 |
| Se | 78 | 72 | 2 | H2 | | ug/l | 1.33 |
| Br | 79 | 72 | 1 | NO GAS | | ug/l | 48621.86 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 7343.84 |
| Se | 82 | 72 | 1 | NO GAS | | ug/l | 269.47 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6478.49 |
| Sr | 88 | 72 | 1 | NO GAS | | ug/l | 505.68 |
| Sr | 88 | 72 | 3 | He | | ug/l | 220.01 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | | ug/l | 141.11 |
| Mo | 95 | 72 | 3 | He | | ug/l | 52.22 |
| Mo | 98 | 72 | 1 | NO GAS | | ug/l | 214.87 |
| Ag | 107 | 72 | 1 | NO GAS | | ug/l | 1769.75 |
| Ag | 109 | 72 | 1 | NO GAS | | ug/l | 1690.43 |
| Cd | 111 | 159 | 1 | NO GAS | | ug/l | -41.01 |
| Cd | 111 | 159 | 3 | He | | ug/l | 0.00 |
| Cd | 114 | 159 | 1 | NO GAS | | ug/l | -240.37 |
| Cd | 114 | 159 | 3 | He | | ug/l | -2.38 |
| Sn | 118 | 159 | 1 | NO GAS | | ug/l | 2315.60 |
| Sn | 118 | 159 | 3 | He | | ug/l | 384.45 |
| Sb | 121 | 159 | 1 | NO GAS | | ug/l | 275.56 |
| Sb | 121 | 159 | 3 | He | | ug/l | 46.67 |
| Sb | 123 | 159 | 1 | NO GAS | | ug/l | 232.23 |
| Sb | 123 | 159 | 3 | He | | ug/l | 24.44 |
| Ba | 135 | 159 | 1 | NO GAS | | ug/l | 66.53 |
| Ba | 137 | 159 | 1 | NO GAS | | ug/l | 73.19 |
| La | 139 | 175 | 1 | NO GAS | | ug/l | 46.71 |
| La | 139 | 175 | 3 | He | | ug/l | 6.67 |
| Ce | 140 | 175 | 1 | NO GAS | | ug/l | 73.41 |
| Ce | 140 | 175 | 3 | He | | ug/l | 33.37 |
| Hg | 201 | 175 | 1 | NO GAS | | ug/l | 15.67 |
| Hg | 202 | 175 | 1 | NO GAS | | ug/l | 60.66 |
| Hg | 202 | 175 | 3 | He | | ug/l | 27.66 |
| Tl | 203 | 175 | 3 | He | | ug/l | 29.32 |
| Tl | 205 | 175 | 1 | NO GAS | | ug/l | 98.89 |
| Tl | 205 | 175 | 3 | He | | ug/l | 65.99 |
| [Pb] | 206 | 175 | 1 | NO GAS | | ug/l | 53.33 |
| [Pb] | 207 | 175 | 1 | NO GAS | | ug/l | 64.44 |
| Pb | 208 | 175 | 1 | NO GAS | | ug/l | 233.33 |
| Th | 232 | 175 | 3 | He | | ug/l | 610.56 |
| U | 238 | 175 | 1 | NO GAS | | ug/l | 128.31 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1855344.02 | |
| Sc | 45 | 2 | H2 | 87040.86 | |
| Sc | 45 | 3 | He | 50060.93 | |
| Ge | 72 | 1 | NO GAS | 868538.36 | |
| Ge | 72 | 2 | H2 | 127129.95 | |
| Ge | 72 | 3 | He | 75693.82 | |
| Tb | 159 | 1 | NO GAS | 18136122.36 | |
| Tb | 159 | 3 | He | 6918865.18 | |
| Ho | 165 | 1 | NO GAS | 17035872.15 | |
| Ho | 165 | 3 | He | 6599043.55 | |
| Lu | 175 | 1 | NO GAS | 18621451.63 | |
| Lu | 175 | 3 | He | 4115922.34 | |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 004BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 18:35:28
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName ---
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | | ug/l | 1782.41 |
| Be | 9 | 45 | 1 | NO GAS | | ug/l | 7.33 |
| B | 11 | 45 | 1 | NO GAS | | ug/l | 145.97 |
| Na | 23 | 45 | 3 | He | | ug/l | 7827.37 |
| Mg | 24 | 45 | 3 | He | | ug/l | 39.92 |
| Al | 27 | 45 | 1 | NO GAS | | ug/l | 648.91 |
| Si | 28 | 45 | 2 | H2 | | ug/l | 27.32 |
| K | 39 | 72 | 3 | He | | ug/l | 2709.12 |
| Ca | 40 | 72 | 2 | H2 | | ug/l | 558.07 |
| Ti | 47 | 72 | 1 | NO GAS | | ug/l | 56.64 |
| V | 51 | 72 | 1 | NO GAS | | ug/l | -13194.19 |
| V | 51 | 72 | 3 | He | | ug/l | 101.11 |
| Cr | 52 | 72 | 1 | NO GAS | | ug/l | 10176.37 |
| Cr | 52 | 72 | 3 | He | | ug/l | 435.81 |
| Cr | 53 | 72 | 1 | NO GAS | | ug/l | 47578.09 |
| Mn | 55 | 72 | 1 | NO GAS | | ug/l | 668.69 |
| Mn | 55 | 72 | 3 | He | | ug/l | 5.00 |
| Fe | 56 | 72 | 2 | H2 | | ug/l | 862.93 |
| Fe | 56 | 72 | 3 | He | | ug/l | 1479.34 |
| Co | 59 | 72 | 1 | NO GAS | | ug/l | 36.59 |
| Ni | 60 | 72 | 1 | NO GAS | | ug/l | 66.53 |
| Ni | 60 | 72 | 3 | He | | ug/l | 43.34 |
| Ni | 62 | 72 | 1 | NO GAS | | ug/l | 482.39 |
| Cu | 63 | 72 | 1 | NO GAS | | ug/l | 221.96 |
| Cu | 63 | 72 | 3 | He | | ug/l | 82.32 |
| Cu | 65 | 72 | 1 | NO GAS | | ug/l | 103.98 |
| Zn | 66 | 72 | 1 | NO GAS | | ug/l | 1004.66 |
| Zn | 66 | 72 | 3 | He | | ug/l | 195.56 |
| As | 75 | 72 | 1 | NO GAS | | ug/l | 3093.18 |
| As | 75 | 72 | 3 | He | | ug/l | 4.33 |
| Se | 78 | 72 | 2 | H2 | | ug/l | 2.00 |
| Br | 79 | 72 | 1 | NO GAS | | ug/l | 61508.80 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 8978.09 |
| Se | 82 | 72 | 1 | NO GAS | | ug/l | 154.36 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6641.56 |
| Sr | 88 | 72 | 1 | NO GAS | | ug/l | 329.35 |
| Sr | 88 | 72 | 3 | He | | ug/l | 207.78 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | | ug/l | 98.89 |
| Mo | 95 | 72 | 3 | He | | ug/l | 44.44 |
| Mo | 98 | 72 | 1 | NO GAS | | ug/l | 162.78 |
| Ag | 107 | 72 | 1 | NO GAS | | ug/l | 1815.08 |
| Ag | 109 | 72 | 1 | NO GAS | | ug/l | 1660.43 |
| Cd | 111 | 159 | 1 | NO GAS | | ug/l | -47.47 |
| Cd | 111 | 159 | 3 | He | | ug/l | 0.00 |
| Cd | 114 | 159 | 1 | NO GAS | | ug/l | -222.21 |
| Cd | 114 | 159 | 3 | He | | ug/l | -27.52 |
| Sn | 118 | 159 | 1 | NO GAS | | ug/l | 41812.23 |
| Sn | 118 | 159 | 3 | He | | ug/l | 6573.62 |
| Sb | 121 | 159 | 1 | NO GAS | | ug/l | 211.11 |
| Sb | 121 | 159 | 3 | He | | ug/l | 25.55 |
| Sb | 123 | 159 | 1 | NO GAS | | ug/l | 218.89 |
| Sb | 123 | 159 | 3 | He | | ug/l | 25.56 |
| Ba | 135 | 159 | 1 | NO GAS | | ug/l | 59.88 |
| Ba | 137 | 159 | 1 | NO GAS | | ug/l | 43.25 |
| La | 139 | 175 | 1 | NO GAS | | ug/l | 56.72 |
| La | 139 | 175 | 3 | He | | ug/l | 6.67 |
| Ce | 140 | 175 | 1 | NO GAS | | ug/l | 46.71 |
| Ce | 140 | 175 | 3 | He | | ug/l | 16.68 |
| Hg | 201 | 175 | 1 | NO GAS | | ug/l | 13.67 |
| Hg | 202 | 175 | 1 | NO GAS | | ug/l | 67.65 |
| Hg | 202 | 175 | 3 | He | | ug/l | 26.66 |
| Tl | 203 | 175 | 3 | He | | ug/l | 18.67 |
| Tl | 205 | 175 | 1 | NO GAS | | ug/l | 41.11 |
| Tl | 205 | 175 | 3 | He | | ug/l | 39.99 |
| [Pb] | 206 | 175 | 1 | NO GAS | | ug/l | 30.00 |
| [Pb] | 207 | 175 | 1 | NO GAS | | ug/l | 30.00 |
| Pb | 208 | 175 | 1 | NO GAS | | ug/l | 146.67 |
| Th | 232 | 175 | 3 | He | | ug/l | 520.57 |
| U | 238 | 175 | 1 | NO GAS | | ug/l | 74.32 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1774921.88 | |
| Sc | 45 | 2 | H2 | 83120.05 | |
| Sc | 45 | 3 | He | 49691.46 | |
| Ge | 72 | 1 | NO GAS | 824782.21 | |
| Ge | 72 | 2 | H2 | 122449.64 | |
| Ge | 72 | 3 | He | 76020.18 | |
| Tb | 159 | 1 | NO GAS | 18356008.28 | |
| Tb | 159 | 3 | He | 6716528.22 | |
| Ho | 165 | 1 | NO GAS | 17278019.91 | |
| Ho | 165 | 3 | He | 6436088.05 | |
| Lu | 175 | 1 | NO GAS | 19226826.36 | |
| Lu | 175 | 3 | He | 4093614.15 | |

ICPMS206-B Analytical Data

Sample Name BLANK
File Name 005CALB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 18:41:14
Sample Type CalBlk
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 0.000 | ug/l | 1701.08 |
| Be | 9 | 45 | 1 | NO GAS | 0.000 | ug/l | 5.33 |
| B | 11 | 45 | 1 | NO GAS | 0.000 | ug/l | 127.31 |
| Na | 23 | 45 | 3 | He | 0.000 | ug/l | 7958.54 |
| Mg | 24 | 45 | 3 | He | 0.000 | ug/l | 43.25 |
| Al | 27 | 45 | 1 | NO GAS | 0.000 | ug/l | 1916.12 |
| Si | 28 | 45 | 2 | H2 | 0.000 | ug/l | 28.66 |
| K | 39 | 72 | 3 | He | 0.000 | ug/l | 2731.35 |
| Ca | 40 | 72 | 2 | H2 | 0.000 | ug/l | 514.76 |
| Ti | 47 | 72 | 1 | NO GAS | 0.000 | ug/l | 24.99 |
| V | 51 | 72 | 1 | NO GAS | 0.000 | ug/l | -6096.98 |
| V | 51 | 72 | 3 | He | 0.000 | ug/l | 121.11 |
| Cr | 52 | 72 | 1 | NO GAS | 0.000 | ug/l | 10465.98 |
| Cr | 52 | 72 | 3 | He | 0.000 | ug/l | 419.18 |
| Cr | 53 | 72 | 1 | NO GAS | 0.000 | ug/l | 44080.74 |
| Mn | 55 | 72 | 1 | NO GAS | 0.000 | ug/l | 695.31 |
| Mn | 55 | 72 | 3 | He | 0.000 | ug/l | 6.00 |
| Fe | 56 | 72 | 2 | H2 | 0.000 | ug/l | 894.59 |
| Fe | 56 | 72 | 3 | He | 0.000 | ug/l | 1501.00 |
| Co | 59 | 72 | 1 | NO GAS | 0.000 | ug/l | 59.88 |
| Ni | 60 | 72 | 1 | NO GAS | 0.000 | ug/l | 63.21 |
| Ni | 60 | 72 | 3 | He | 0.000 | ug/l | 46.67 |
| Ni | 62 | 72 | 1 | NO GAS | 0.000 | ug/l | 392.56 |
| Cu | 63 | 72 | 1 | NO GAS | 0.000 | ug/l | 205.29 |
| Cu | 63 | 72 | 3 | He | 0.000 | ug/l | 76.32 |
| Cu | 65 | 72 | 1 | NO GAS | 0.000 | ug/l | 99.98 |
| Zn | 66 | 72 | 1 | NO GAS | 0.000 | ug/l | 1194.31 |
| Zn | 66 | 72 | 3 | He | 0.000 | ug/l | 275.56 |
| As | 75 | 72 | 1 | NO GAS | 0.000 | ug/l | 2890.55 |
| As | 75 | 72 | 3 | He | 0.000 | ug/l | 4.33 |
| Se | 78 | 72 | 2 | H2 | 0.000 | ug/l | 0.67 |
| Br | 79 | 72 | 1 | NO GAS | 0.000 | ug/l | 61749.26 |
| Br | 79 | 72 | 2 | H2 | 0.000 | ug/l | 8039.44 |
| Se | 82 | 72 | 1 | NO GAS | 0.000 | ug/l | 415.87 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6352.01 |
| Sr | 88 | 72 | 1 | NO GAS | 0.000 | ug/l | 319.37 |
| Sr | 88 | 72 | 3 | He | 0.000 | ug/l | 227.78 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.000 | ug/l | 116.67 |
| Mo | 95 | 72 | 3 | He | 0.000 | ug/l | 28.89 |
| Mo | 98 | 72 | 1 | NO GAS | 0.000 | ug/l | 165.29 |
| Ag | 107 | 72 | 1 | NO GAS | 0.000 | ug/l | 1849.74 |
| Ag | 109 | 72 | 1 | NO GAS | 0.000 | ug/l | 1602.43 |
| Cd | 111 | 159 | 1 | NO GAS | 0.000 | ug/l | 10.85 |
| Cd | 111 | 159 | 3 | He | 0.000 | ug/l | 1.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.000 | ug/l | -224.31 |
| Cd | 114 | 159 | 3 | He | 0.000 | ug/l | -53.09 |
| Sn | 118 | 159 | 1 | NO GAS | 0.000 | ug/l | 43022.18 |
| Sn | 118 | 159 | 3 | He | 0.000 | ug/l | 6780.38 |
| Sb | 121 | 159 | 1 | NO GAS | 0.000 | ug/l | 237.78 |
| Sb | 121 | 159 | 3 | He | 0.000 | ug/l | 36.67 |
| Sb | 123 | 159 | 1 | NO GAS | 0.000 | ug/l | 180.00 |
| Sb | 123 | 159 | 3 | He | 0.000 | ug/l | 26.67 |
| Ba | 135 | 159 | 1 | NO GAS | 0.000 | ug/l | 59.88 |
| Ba | 137 | 159 | 1 | NO GAS | 0.000 | ug/l | 53.23 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 66.73 |
| La | 139 | 175 | 3 | He | 0.000 | ug/l | 0.00 |
| Ce | 140 | 175 | 1 | NO GAS | 0.000 | ug/l | 66.73 |
| Ce | 140 | 175 | 3 | He | 0.000 | ug/l | 10.01 |
| Hg | 201 | 175 | 1 | NO GAS | 0.000 | ug/l | 16.67 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 59.99 |
| Hg | 202 | 175 | 3 | He | 0.000 | ug/l | 27.99 |
| Tl | 203 | 175 | 3 | He | 0.000 | ug/l | 10.67 |
| Tl | 205 | 175 | 1 | NO GAS | 0.000 | ug/l | 47.78 |
| Tl | 205 | 175 | 3 | He | 0.000 | ug/l | 49.99 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.000 | ug/l | 43.33 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.000 | ug/l | 30.00 |
| Pb | 208 | 175 | 1 | NO GAS | 0.000 | ug/l | 160.00 |
| Th | 232 | 175 | 3 | He | 0.000 | ug/l | 518.57 |
| U | 238 | 175 | 1 | NO GAS | 0.000 | ug/l | 74.98 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1809681.80 | 100.0 |
| Sc | 45 | 2 | H2 | 82283.77 | 100.0 |
| Sc | 45 | 3 | He | 49865.44 | 100.0 |
| Ge | 72 | 1 | NO GAS | 828511.88 | 100.0 |
| Ge | 72 | 2 | H2 | 117192.28 | 100.0 |
| Ge | 72 | 3 | He | 77344.28 | 100.0 |
| Tb | 159 | 1 | NO GAS | 17069290.78 | 100.0 |
| Tb | 159 | 3 | He | 7019508.17 | 100.0 |
| Ho | 165 | 1 | NO GAS | 16209993.07 | 100.0 |
| Ho | 165 | 3 | He | 6735294.17 | 100.0 |
| Lu | 175 | 1 | NO GAS | 17611837.88 | 100.0 |
| Lu | 175 | 3 | He | 4282614.24 | 100.0 |

ICPMS206-B Analytical Data

Sample Name 0.025 PPB STD
File Name 006CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 18:47:26
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 0.132 | ug/l | 1852.40 |
| Be | 9 | 45 | 1 | NO GAS | 0.021 | ug/l | 11.00 |
| B | 11 | 45 | 1 | NO GAS | 0.022 | ug/l | 134.64 |
| Na | 23 | 45 | 3 | He | 12.290 | ug/l | 8812.29 |
| Mg | 24 | 45 | 3 | He | 7.034 | ug/l | 339.33 |
| Al | 27 | 45 | 1 | NO GAS | -0.104 | ug/l | 1666.76 |
| Si | 28 | 45 | 2 | H2 | 0.141 | ug/l | 29.32 |
| K | 39 | 72 | 3 | He | 8.335 | ug/l | 2968.07 |
| Ca | 40 | 72 | 2 | H2 | 7.952 | ug/l | 1882.52 |
| Ti | 47 | 72 | 1 | NO GAS | 0.154 | ug/l | 154.93 |
| V | 51 | 72 | 1 | NO GAS | 0.151 | ug/l | -4061.64 |
| V | 51 | 72 | 3 | He | 0.030 | ug/l | 155.56 |
| Cr | 52 | 72 | 1 | NO GAS | -0.008 | ug/l | 10254.51 |
| Cr | 52 | 72 | 3 | He | 0.013 | ug/l | 429.16 |
| Cr | 53 | 72 | 1 | NO GAS | 0.461 | ug/l | 44384.67 |
| Mn | 55 | 72 | 1 | NO GAS | 0.029 | ug/l | 1194.35 |
| Mn | 55 | 72 | 3 | He | 0.020 | ug/l | 22.67 |
| Fe | 56 | 72 | 2 | H2 | 0.719 | ug/l | 1555.98 |
| Fe | 56 | 72 | 3 | He | 0.641 | ug/l | 2445.65 |
| Co | 59 | 72 | 1 | NO GAS | 0.031 | ug/l | 542.27 |
| Ni | 60 | 72 | 1 | NO GAS | 0.052 | ug/l | 239.53 |
| Ni | 60 | 72 | 3 | He | 0.018 | ug/l | 64.44 |
| Ni | 62 | 72 | 1 | NO GAS | 0.014 | ug/l | 399.22 |
| Cu | 63 | 72 | 1 | NO GAS | 0.046 | ug/l | 595.89 |
| Cu | 63 | 72 | 3 | He | 0.043 | ug/l | 214.63 |
| Cu | 65 | 72 | 1 | NO GAS | 0.050 | ug/l | 311.28 |
| Zn | 66 | 72 | 1 | NO GAS | 0.004 | ug/l | 1184.32 |
| Zn | 66 | 72 | 3 | He | 0.068 | ug/l | 298.89 |
| As | 75 | 72 | 1 | NO GAS | 0.060 | ug/l | 3056.35 |
| As | 75 | 72 | 3 | He | 0.033 | ug/l | 14.33 |
| Se | 78 | 72 | 2 | H2 | 0.050 | ug/l | 6.00 |
| Br | 79 | 72 | 1 | NO GAS | -0.336 | ug/l | 59157.83 |
| Br | 79 | 72 | 2 | H2 | 0.643 | ug/l | 8275.77 |
| Se | 82 | 72 | 1 | NO GAS | -0.646 | ug/l | 236.87 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6185.64 |
| Sr | 88 | 72 | 1 | NO GAS | 0.029 | ug/l | 1314.13 |
| Sr | 88 | 72 | 3 | He | 0.012 | ug/l | 238.89 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.037 | ug/l | 397.79 |
| Mo | 95 | 72 | 3 | He | 0.034 | ug/l | 115.56 |
| Mo | 98 | 72 | 1 | NO GAS | 0.032 | ug/l | 589.05 |
| Ag | 107 | 72 | 1 | NO GAS | 0.008 | ug/l | 2002.40 |
| Ag | 109 | 72 | 1 | NO GAS | 0.016 | ug/l | 1921.74 |
| Cd | 111 | 159 | 1 | NO GAS | 0.016 | ug/l | 103.33 |
| Cd | 111 | 159 | 3 | He | 0.027 | ug/l | 39.99 |
| Cd | 114 | 159 | 1 | NO GAS | 0.041 | ug/l | 286.54 |
| Cd | 114 | 159 | 3 | He | 0.036 | ug/l | 80.19 |
| Sn | 118 | 159 | 1 | NO GAS | -2.626 | ug/l | 3363.71 |
| Sn | 118 | 159 | 3 | He | -2.421 | ug/l | 535.57 |
| Sb | 121 | 159 | 1 | NO GAS | 0.030 | ug/l | 928.93 |
| Sb | 121 | 159 | 3 | He | 0.032 | ug/l | 141.11 |
| Sb | 123 | 159 | 1 | NO GAS | 0.030 | ug/l | 734.47 |
| Sb | 123 | 159 | 3 | He | 0.027 | ug/l | 101.11 |
| Ba | 135 | 159 | 1 | NO GAS | 0.025 | ug/l | 186.30 |
| Ba | 137 | 159 | 1 | NO GAS | 0.024 | ug/l | 256.16 |
| La | 139 | 175 | 1 | NO GAS | 0.030 | ug/l | 2449.37 |
| La | 139 | 175 | 3 | He | 0.025 | ug/l | 423.77 |
| Ce | 140 | 175 | 1 | NO GAS | 0.030 | ug/l | 2429.34 |
| Ce | 140 | 175 | 3 | He | 0.032 | ug/l | 700.73 |
| Hg | 201 | 175 | 1 | NO GAS | 0.001 | ug/l | 21.00 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 62.99 |
| Hg | 202 | 175 | 3 | He | -0.001 | ug/l | 24.00 |
| Tl | 203 | 175 | 3 | He | 0.029 | ug/l | 403.92 |
| Tl | 205 | 175 | 1 | NO GAS | 0.027 | ug/l | 1741.23 |
| Tl | 205 | 175 | 3 | He | 0.029 | ug/l | 979.84 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.030 | ug/l | 698.91 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.034 | ug/l | 655.58 |
| Pb | 208 | 175 | 1 | NO GAS | 0.031 | ug/l | 2786.80 |
| Th | 232 | 175 | 3 | He | 0.017 | ug/l | 1348.46 |
| U | 238 | 175 | 1 | NO GAS | 0.027 | ug/l | 2715.05 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1820531.42 | 100.6 |
| Sc | 45 | 2 | H2 | 76915.71 | 93.5 |
| Sc | 45 | 3 | He | 48793.37 | 97.9 |
| Ge | 72 | 1 | NO GAS | 819802.23 | 98.9 |
| Ge | 72 | 2 | H2 | 112414.71 | 95.9 |
| Ge | 72 | 3 | He | 74979.49 | 96.9 |
| Tb | 159 | 1 | NO GAS | 17616122.79 | 103.2 |
| Tb | 159 | 3 | He | 6780340.20 | 96.6 |
| Ho | 165 | 1 | NO GAS | 16848898.93 | 103.9 |
| Ho | 165 | 3 | He | 6521599.86 | 96.8 |
| Lu | 175 | 1 | NO GAS | 18594557.03 | 105.6 |
| Lu | 175 | 3 | He | 4162221.66 | 97.2 |

ICPMS206-B Analytical Data

Sample Name 0.05 PPB STD
File Name 007CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 18:53:25
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.738 | ug/l | 2156.38 |
| Be | 9 | 45 | 1 | NO GAS | 0.077 | ug/l | 25.00 |
| B | 11 | 45 | 1 | NO GAS | 0.064 | ug/l | 138.64 |
| Na | 23 | 45 | 3 | He | 16.555 | ug/l | 9000.16 |
| Mg | 24 | 45 | 3 | He | 15.928 | ug/l | 701.96 |
| Al | 27 | 45 | 1 | NO GAS | -0.320 | ug/l | 1007.82 |
| Si | 28 | 45 | 2 | H2 | -0.054 | ug/l | 25.99 |
| K | 39 | 72 | 3 | He | 16.017 | ug/l | 3233.67 |
| Ca | 40 | 72 | 2 | H2 | 15.854 | ug/l | 3305.38 |
| Ti | 47 | 72 | 1 | NO GAS | 0.089 | ug/l | 99.95 |
| V | 51 | 72 | 1 | NO GAS | -0.568 | ug/l | -13345.90 |
| V | 51 | 72 | 3 | He | 0.047 | ug/l | 175.56 |
| Cr | 52 | 72 | 1 | NO GAS | 0.074 | ug/l | 11184.99 |
| Cr | 52 | 72 | 3 | He | -0.020 | ug/l | 369.27 |
| Cr | 53 | 72 | 1 | NO GAS | 1.457 | ug/l | 45922.72 |
| Mn | 55 | 72 | 1 | NO GAS | 0.071 | ug/l | 1909.68 |
| Mn | 55 | 72 | 3 | He | 0.059 | ug/l | 54.34 |
| Fe | 56 | 72 | 2 | H2 | 1.509 | ug/l | 2350.69 |
| Fe | 56 | 72 | 3 | He | 1.484 | ug/l | 3718.61 |
| Co | 59 | 72 | 1 | NO GAS | 0.065 | ug/l | 1051.29 |
| Ni | 60 | 72 | 1 | NO GAS | 0.069 | ug/l | 296.08 |
| Ni | 60 | 72 | 3 | He | 0.092 | ug/l | 144.46 |
| Ni | 62 | 72 | 1 | NO GAS | -0.006 | ug/l | 389.24 |
| Cu | 63 | 72 | 1 | NO GAS | 0.072 | ug/l | 817.19 |
| Cu | 63 | 72 | 3 | He | 0.071 | ug/l | 303.27 |
| Cu | 65 | 72 | 1 | NO GAS | 0.068 | ug/l | 387.26 |
| Zn | 66 | 72 | 1 | NO GAS | -0.091 | ug/l | 921.45 |
| Zn | 66 | 72 | 3 | He | -0.083 | ug/l | 225.56 |
| As | 75 | 72 | 1 | NO GAS | 0.142 | ug/l | 3309.17 |
| As | 75 | 72 | 3 | He | 0.064 | ug/l | 23.66 |
| Se | 78 | 72 | 2 | H2 | 0.059 | ug/l | 7.00 |
| Br | 79 | 72 | 1 | NO GAS | -0.174 | ug/l | 60122.96 |
| Br | 79 | 72 | 2 | H2 | 0.974 | ug/l | 8698.47 |
| Se | 82 | 72 | 1 | NO GAS | -0.408 | ug/l | 300.09 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6551.70 |
| Sr | 88 | 72 | 1 | NO GAS | 0.062 | ug/l | 2412.08 |
| Sr | 88 | 72 | 3 | He | 0.055 | ug/l | 301.12 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.065 | ug/l | 617.80 |
| Mo | 95 | 72 | 3 | He | 0.068 | ug/l | 203.34 |
| Mo | 98 | 72 | 1 | NO GAS | 0.060 | ug/l | 946.57 |
| Ag | 107 | 72 | 1 | NO GAS | 0.020 | ug/l | 2272.38 |
| Ag | 109 | 72 | 1 | NO GAS | 0.032 | ug/l | 2276.38 |
| Cd | 111 | 159 | 1 | NO GAS | 0.044 | ug/l | 257.87 |
| Cd | 111 | 159 | 3 | He | 0.054 | ug/l | 77.98 |
| Cd | 114 | 159 | 1 | NO GAS | 0.069 | ug/l | 646.20 |
| Cd | 114 | 159 | 3 | He | 0.073 | ug/l | 209.28 |
| Sn | 118 | 159 | 1 | NO GAS | -2.636 | ug/l | 3213.96 |
| Sn | 118 | 159 | 3 | He | -2.426 | ug/l | 518.90 |
| Sb | 121 | 159 | 1 | NO GAS | 0.059 | ug/l | 1597.87 |
| Sb | 121 | 159 | 3 | He | 0.061 | ug/l | 236.67 |
| Sb | 123 | 159 | 1 | NO GAS | 0.057 | ug/l | 1233.39 |
| Sb | 123 | 159 | 3 | He | 0.059 | ug/l | 188.89 |
| Ba | 135 | 159 | 1 | NO GAS | 0.044 | ug/l | 279.45 |
| Ba | 137 | 159 | 1 | NO GAS | 0.065 | ug/l | 612.13 |
| La | 139 | 175 | 1 | NO GAS | 0.065 | ug/l | 5179.51 |
| La | 139 | 175 | 3 | He | 0.068 | ug/l | 1157.90 |
| Ce | 140 | 175 | 1 | NO GAS | 0.057 | ug/l | 4495.27 |
| Ce | 140 | 175 | 3 | He | 0.066 | ug/l | 1418.18 |
| Hg | 201 | 175 | 1 | NO GAS | 0.000 | ug/l | 17.33 |
| Hg | 202 | 175 | 1 | NO GAS | 0.001 | ug/l | 73.65 |
| Hg | 202 | 175 | 3 | He | 0.001 | ug/l | 33.66 |
| Tl | 203 | 175 | 3 | He | 0.061 | ug/l | 825.20 |
| Tl | 205 | 175 | 1 | NO GAS | 0.059 | ug/l | 3770.50 |
| Tl | 205 | 175 | 3 | He | 0.064 | ug/l | 2089.07 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.057 | ug/l | 1284.51 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.058 | ug/l | 1113.39 |
| Pb | 208 | 175 | 1 | NO GAS | 0.060 | ug/l | 5268.19 |
| Th | 232 | 175 | 3 | He | 0.042 | ug/l | 2505.06 |
| U | 238 | 175 | 1 | NO GAS | 0.059 | ug/l | 5863.00 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1770040.11 | 97.8 |
| Sc | 45 | 2 | H2 | 77459.46 | 94.1 |
| Sc | 45 | 3 | He | 47891.46 | 96.0 |
| Ge | 72 | 1 | NO GAS | 819530.10 | 98.9 |
| Ge | 72 | 2 | H2 | 114109.85 | 97.4 |
| Ge | 72 | 3 | He | 74346.69 | 96.1 |
| Tb | 159 | 1 | NO GAS | 17657106.28 | 103.4 |
| Tb | 159 | 3 | He | 6729152.51 | 95.9 |
| Ho | 165 | 1 | NO GAS | 16577168.56 | 102.3 |
| Ho | 165 | 3 | He | 6515525.61 | 96.7 |
| Lu | 175 | 1 | NO GAS | 18535645.20 | 105.2 |
| Lu | 175 | 3 | He | 4106195.79 | 95.9 |

ICPMS206-B Analytical Data

Sample Name 0.10 PPB STD
File Name 008CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 18:59:25
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 1.225 | ug/l | 2389.70 |
| Be | 9 | 45 | 1 | NO GAS | 0.140 | ug/l | 40.32 |
| B | 11 | 45 | 1 | NO GAS | 0.066 | ug/l | 135.97 |
| Na | 23 | 45 | 3 | He | 34.451 | ug/l | 10251.97 |
| Mg | 24 | 45 | 3 | He | 30.214 | ug/l | 1267.55 |
| Al | 27 | 45 | 1 | NO GAS | -0.210 | ug/l | 1294.51 |
| Si | 28 | 45 | 2 | H2 | -0.219 | ug/l | 22.66 |
| K | 39 | 72 | 3 | He | 28.504 | ug/l | 3655.97 |
| Ca | 40 | 72 | 2 | H2 | 29.364 | ug/l | 5624.87 |
| Ti | 47 | 72 | 1 | NO GAS | 0.142 | ug/l | 143.27 |
| V | 51 | 72 | 1 | NO GAS | 0.006 | ug/l | -5944.76 |
| V | 51 | 72 | 3 | He | 0.086 | ug/l | 221.11 |
| Cr | 52 | 72 | 1 | NO GAS | 0.109 | ug/l | 11424.65 |
| Cr | 52 | 72 | 3 | He | 0.033 | ug/l | 452.45 |
| Cr | 53 | 72 | 1 | NO GAS | 0.921 | ug/l | 44451.12 |
| Mn | 55 | 72 | 1 | NO GAS | 0.123 | ug/l | 2748.14 |
| Mn | 55 | 72 | 3 | He | 0.133 | ug/l | 113.68 |
| Fe | 56 | 72 | 2 | H2 | 3.012 | ug/l | 3781.92 |
| Fe | 56 | 72 | 3 | He | 2.979 | ug/l | 5924.82 |
| Co | 59 | 72 | 1 | NO GAS | 0.133 | ug/l | 2082.69 |
| Ni | 60 | 72 | 1 | NO GAS | 0.133 | ug/l | 505.67 |
| Ni | 60 | 72 | 3 | He | 0.137 | ug/l | 190.00 |
| Ni | 62 | 72 | 1 | NO GAS | 0.152 | ug/l | 465.75 |
| Cu | 63 | 72 | 1 | NO GAS | 0.134 | ug/l | 1325.13 |
| Cu | 63 | 72 | 3 | He | 0.132 | ug/l | 492.24 |
| Cu | 65 | 72 | 1 | NO GAS | 0.140 | ug/l | 680.55 |
| Zn | 66 | 72 | 1 | NO GAS | -0.083 | ug/l | 928.12 |
| Zn | 66 | 72 | 3 | He | -0.235 | ug/l | 152.23 |
| As | 75 | 72 | 1 | NO GAS | 0.101 | ug/l | 3139.98 |
| As | 75 | 72 | 3 | He | 0.130 | ug/l | 43.32 |
| Se | 78 | 72 | 2 | H2 | 0.125 | ug/l | 14.00 |
| Br | 79 | 72 | 1 | NO GAS | 0.192 | ug/l | 61502.13 |
| Br | 79 | 72 | 2 | H2 | 0.797 | ug/l | 8432.20 |
| Se | 82 | 72 | 1 | NO GAS | 0.067 | ug/l | 417.20 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6288.78 |
| Sr | 88 | 72 | 1 | NO GAS | 0.130 | ug/l | 4644.81 |
| Sr | 88 | 72 | 3 | He | 0.138 | ug/l | 420.01 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.123 | ug/l | 1050.04 |
| Mo | 95 | 72 | 3 | He | 0.106 | ug/l | 297.78 |
| Mo | 98 | 72 | 1 | NO GAS | 0.121 | ug/l | 1729.35 |
| Ag | 107 | 72 | 1 | NO GAS | 0.044 | ug/l | 2765.70 |
| Ag | 109 | 72 | 1 | NO GAS | 0.055 | ug/l | 2729.70 |
| Cd | 111 | 159 | 1 | NO GAS | 0.119 | ug/l | 669.21 |
| Cd | 111 | 159 | 3 | He | 0.111 | ug/l | 162.64 |
| Cd | 114 | 159 | 1 | NO GAS | 0.119 | ug/l | 1255.89 |
| Cd | 114 | 159 | 3 | He | 0.119 | ug/l | 384.62 |
| Sn | 118 | 159 | 1 | NO GAS | -2.551 | ug/l | 4465.14 |
| Sn | 118 | 159 | 3 | He | -2.374 | ug/l | 665.58 |
| Sb | 121 | 159 | 1 | NO GAS | 0.115 | ug/l | 2826.94 |
| Sb | 121 | 159 | 3 | He | 0.116 | ug/l | 434.45 |
| Sb | 123 | 159 | 1 | NO GAS | 0.110 | ug/l | 2156.83 |
| Sb | 123 | 159 | 3 | He | 0.110 | ug/l | 340.01 |
| Ba | 135 | 159 | 1 | NO GAS | 0.108 | ug/l | 588.85 |
| Ba | 137 | 159 | 1 | NO GAS | 0.131 | ug/l | 1151.11 |
| La | 139 | 175 | 1 | NO GAS | 0.123 | ug/l | 9455.87 |
| La | 139 | 175 | 3 | He | 0.125 | ug/l | 2132.34 |
| Ce | 140 | 175 | 1 | NO GAS | 0.117 | ug/l | 8814.84 |
| Ce | 140 | 175 | 3 | He | 0.119 | ug/l | 2572.87 |
| Hg | 201 | 175 | 1 | NO GAS | 0.001 | ug/l | 22.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.002 | ug/l | 82.32 |
| Hg | 202 | 175 | 3 | He | 0.003 | ug/l | 50.32 |
| Tl | 203 | 175 | 3 | He | 0.123 | ug/l | 1673.10 |
| Tl | 205 | 175 | 1 | NO GAS | 0.118 | ug/l | 7250.69 |
| Tl | 205 | 175 | 3 | He | 0.126 | ug/l | 4123.09 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.122 | ug/l | 2584.69 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.126 | ug/l | 2284.64 |
| Pb | 208 | 175 | 1 | NO GAS | 0.125 | ug/l | 10419.30 |
| Th | 232 | 175 | 3 | He | 0.087 | ug/l | 4719.83 |
| U | 238 | 175 | 1 | NO GAS | 0.119 | ug/l | 11291.06 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1739846.50 | 96.1 |
| Sc | 45 | 2 | H2 | 76689.22 | 93.2 |
| Sc | 45 | 3 | He | 46924.02 | 94.1 |
| Ge | 72 | 1 | NO GAS | 807565.78 | 97.5 |
| Ge | 72 | 2 | H2 | 112625.47 | 96.1 |
| Ge | 72 | 3 | He | 73256.32 | 94.7 |
| Tb | 159 | 1 | NO GAS | 17337556.74 | 101.6 |
| Tb | 159 | 3 | He | 6949491.85 | 99.0 |
| Ho | 165 | 1 | NO GAS | 16324488.08 | 100.7 |
| Ho | 165 | 3 | He | 6695339.32 | 99.4 |
| Lu | 175 | 1 | NO GAS | 17876510.46 | 101.5 |
| Lu | 175 | 3 | He | 4150064.27 | 96.9 |

ICPMS206-B Analytical Data

Sample Name 0.5 PPB STD
File Name 009CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 19:05:25
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 5.367 | ug/l | 4706.38 |
| Be | 9 | 45 | 1 | NO GAS | 0.545 | ug/l | 145.97 |
| B | 11 | 45 | 1 | NO GAS | 0.391 | ug/l | 201.30 |
| Na | 23 | 45 | 3 | He | 145.226 | ug/l | 19448.83 |
| Mg | 24 | 45 | 3 | He | 131.063 | ug/l | 5453.45 |
| Al | 27 | 45 | 1 | NO GAS | 0.277 | ug/l | 2704.68 |
| Si | 28 | 45 | 2 | H2 | 2.215 | ug/l | 65.99 |
| K | 39 | 72 | 3 | He | 132.136 | ug/l | 7687.34 |
| Ca | 40 | 72 | 2 | H2 | 138.559 | ug/l | 24599.22 |
| Ti | 47 | 72 | 1 | NO GAS | 0.575 | ug/l | 509.76 |
| V | 51 | 72 | 1 | NO GAS | 0.998 | ug/l | 6578.97 |
| V | 51 | 72 | 3 | He | 0.484 | ug/l | 722.24 |
| Cr | 52 | 72 | 1 | NO GAS | 0.540 | ug/l | 16445.62 |
| Cr | 52 | 72 | 3 | He | 0.459 | ug/l | 1184.37 |
| Cr | 53 | 72 | 1 | NO GAS | 0.323 | ug/l | 43839.25 |
| Mn | 55 | 72 | 1 | NO GAS | 0.559 | ug/l | 10156.35 |
| Mn | 55 | 72 | 3 | He | 0.558 | ug/l | 468.72 |
| Fe | 56 | 72 | 2 | H2 | 14.354 | ug/l | 14717.67 |
| Fe | 56 | 72 | 3 | He | 14.200 | ug/l | 23326.54 |
| Co | 59 | 72 | 1 | NO GAS | 0.572 | ug/l | 8804.93 |
| Ni | 60 | 72 | 1 | NO GAS | 0.586 | ug/l | 2046.10 |
| Ni | 60 | 72 | 3 | He | 0.533 | ug/l | 621.13 |
| Ni | 62 | 72 | 1 | NO GAS | 0.653 | ug/l | 735.23 |
| Cu | 63 | 72 | 1 | NO GAS | 0.621 | ug/l | 5465.82 |
| Cu | 63 | 72 | 3 | He | 0.604 | ug/l | 2030.72 |
| Cu | 65 | 72 | 1 | NO GAS | 0.622 | ug/l | 2711.03 |
| Zn | 66 | 72 | 1 | NO GAS | 0.525 | ug/l | 2621.45 |
| Zn | 66 | 72 | 3 | He | 0.366 | ug/l | 438.90 |
| As | 75 | 72 | 1 | NO GAS | 0.424 | ug/l | 4159.18 |
| As | 75 | 72 | 3 | He | 0.513 | ug/l | 162.30 |
| Se | 78 | 72 | 2 | H2 | 0.597 | ug/l | 64.32 |
| Br | 79 | 72 | 1 | NO GAS | 0.156 | ug/l | 61712.34 |
| Br | 79 | 72 | 2 | H2 | 1.159 | ug/l | 8701.80 |
| Se | 82 | 72 | 1 | NO GAS | -0.455 | ug/l | 282.12 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6438.57 |
| Sr | 88 | 72 | 1 | NO GAS | 0.602 | ug/l | 20609.08 |
| Sr | 88 | 72 | 3 | He | 0.553 | ug/l | 1054.49 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.570 | ug/l | 4461.76 |
| Mo | 95 | 72 | 3 | He | 0.545 | ug/l | 1434.52 |
| Mo | 98 | 72 | 1 | NO GAS | 0.587 | ug/l | 7809.43 |
| Ag | 107 | 72 | 1 | NO GAS | 0.239 | ug/l | 6983.47 |
| Ag | 109 | 72 | 1 | NO GAS | 0.250 | ug/l | 6864.12 |
| Cd | 111 | 159 | 1 | NO GAS | 0.561 | ug/l | 3161.23 |
| Cd | 111 | 159 | 3 | He | 0.546 | ug/l | 772.54 |
| Cd | 114 | 159 | 1 | NO GAS | 0.560 | ug/l | 6899.98 |
| Cd | 114 | 159 | 3 | He | 0.589 | ug/l | 2060.53 |
| Sn | 118 | 159 | 1 | NO GAS | -2.101 | ug/l | 11644.54 |
| Sn | 118 | 159 | 3 | He | -1.898 | ug/l | 1822.34 |
| Sb | 121 | 159 | 1 | NO GAS | 0.532 | ug/l | 12504.97 |
| Sb | 121 | 159 | 3 | He | 0.533 | ug/l | 1807.90 |
| Sb | 123 | 159 | 1 | NO GAS | 0.535 | ug/l | 9968.73 |
| Sb | 123 | 159 | 3 | He | 0.509 | ug/l | 1426.74 |
| Ba | 135 | 159 | 1 | NO GAS | 0.584 | ug/l | 2974.42 |
| Ba | 137 | 159 | 1 | NO GAS | 0.535 | ug/l | 4621.58 |
| La | 139 | 175 | 1 | NO GAS | 0.565 | ug/l | 43771.72 |
| La | 139 | 175 | 3 | He | 0.569 | ug/l | 9756.41 |
| Ce | 140 | 175 | 1 | NO GAS | 0.570 | ug/l | 43387.37 |
| Ce | 140 | 175 | 3 | He | 0.575 | ug/l | 12454.33 |
| Hg | 201 | 175 | 1 | NO GAS | 0.009 | ug/l | 54.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.012 | ug/l | 170.97 |
| Hg | 202 | 175 | 3 | He | 0.010 | ug/l | 92.65 |
| Tl | 203 | 175 | 3 | He | 0.591 | ug/l | 8021.22 |
| Tl | 205 | 175 | 1 | NO GAS | 0.562 | ug/l | 34929.42 |
| Tl | 205 | 175 | 3 | He | 0.590 | ug/l | 19040.91 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.565 | ug/l | 12041.58 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.552 | ug/l | 10067.89 |
| Pb | 208 | 175 | 1 | NO GAS | 0.570 | ug/l | 47779.31 |
| Th | 232 | 175 | 3 | He | 0.452 | ug/l | 22402.46 |
| U | 238 | 175 | 1 | NO GAS | 0.555 | ug/l | 53440.24 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1777046.98 | 98.2 |
| Sc | 45 | 2 | H2 | 75423.57 | 91.7 |
| Sc | 45 | 3 | He | 47728.86 | 95.7 |
| Ge | 72 | 1 | NO GAS | 813512.99 | 98.2 |
| Ge | 72 | 2 | H2 | 112056.44 | 95.6 |
| Ge | 72 | 3 | He | 74631.05 | 96.5 |
| Tb | 159 | 1 | NO GAS | 17700640.22 | 103.7 |
| Tb | 159 | 3 | He | 6735262.73 | 96.0 |
| Ho | 165 | 1 | NO GAS | 16560902.40 | 102.2 |
| Ho | 165 | 3 | He | 6537021.74 | 97.1 |
| Lu | 175 | 1 | NO GAS | 18163406.93 | 103.1 |
| Lu | 175 | 3 | He | 4144414.48 | 96.8 |

ICPMS206-B Analytical Data

Sample Name 1 PPB STD
File Name 010CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 19:11:25
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 11.230 | ug/l | 8134.97 |
| Be | 9 | 45 | 1 | NO GAS | 1.219 | ug/l | 313.61 |
| B | 11 | 45 | 1 | NO GAS | 1.268 | ug/l | 363.27 |
| Na | 23 | 45 | 3 | He | 307.200 | ug/l | 32331.59 |
| Mg | 24 | 45 | 3 | He | 274.324 | ug/l | 11254.81 |
| Al | 27 | 45 | 1 | NO GAS | 0.741 | ug/l | 3943.81 |
| Si | 28 | 45 | 2 | H2 | 3.809 | ug/l | 95.98 |
| K | 39 | 72 | 3 | He | 281.381 | ug/l | 13356.46 |
| Ca | 40 | 72 | 2 | H2 | 286.387 | ug/l | 50318.20 |
| Ti | 47 | 72 | 1 | NO GAS | 1.096 | ug/l | 944.56 |
| V | 51 | 72 | 1 | NO GAS | 1.986 | ug/l | 19082.00 |
| V | 51 | 72 | 3 | He | 1.129 | ug/l | 1524.53 |
| Cr | 52 | 72 | 1 | NO GAS | 1.074 | ug/l | 22397.48 |
| Cr | 52 | 72 | 3 | He | 1.015 | ug/l | 2129.28 |
| Cr | 53 | 72 | 1 | NO GAS | 0.597 | ug/l | 43968.81 |
| Mn | 55 | 72 | 1 | NO GAS | 1.146 | ug/l | 19969.15 |
| Mn | 55 | 72 | 3 | He | 1.160 | ug/l | 966.79 |
| Fe | 56 | 72 | 2 | H2 | 31.685 | ug/l | 31470.86 |
| Fe | 56 | 72 | 3 | He | 29.872 | ug/l | 47373.39 |
| Co | 59 | 72 | 1 | NO GAS | 1.196 | ug/l | 18214.13 |
| Ni | 60 | 72 | 1 | NO GAS | 1.216 | ug/l | 4142.35 |
| Ni | 60 | 72 | 3 | He | 1.177 | ug/l | 1315.62 |
| Ni | 62 | 72 | 1 | NO GAS | 1.367 | ug/l | 1107.85 |
| Cu | 63 | 72 | 1 | NO GAS | 1.298 | ug/l | 11137.50 |
| Cu | 63 | 72 | 3 | He | 1.223 | ug/l | 4024.02 |
| Cu | 65 | 72 | 1 | NO GAS | 1.301 | ug/l | 5521.83 |
| Zn | 66 | 72 | 1 | NO GAS | 1.101 | ug/l | 4195.06 |
| Zn | 66 | 72 | 3 | He | 1.030 | ug/l | 750.02 |
| As | 75 | 72 | 1 | NO GAS | 1.106 | ug/l | 6230.83 |
| As | 75 | 72 | 3 | He | 1.133 | ug/l | 352.27 |
| Se | 78 | 72 | 2 | H2 | 1.104 | ug/l | 118.31 |
| Br | 79 | 72 | 1 | NO GAS | 0.567 | ug/l | 63866.66 |
| Br | 79 | 72 | 2 | H2 | 0.566 | ug/l | 8189.22 |
| Se | 82 | 72 | 1 | NO GAS | 0.828 | ug/l | 607.51 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6461.82 |
| Sr | 88 | 72 | 1 | NO GAS | 1.248 | ug/l | 42087.34 |
| Sr | 88 | 72 | 3 | He | 1.181 | ug/l | 1996.81 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 1.214 | ug/l | 9301.66 |
| Mo | 95 | 72 | 3 | He | 1.105 | ug/l | 2873.61 |
| Mo | 98 | 72 | 1 | NO GAS | 1.257 | ug/l | 16427.48 |
| Ag | 107 | 72 | 1 | NO GAS | 0.518 | ug/l | 12920.64 |
| Ag | 109 | 72 | 1 | NO GAS | 0.501 | ug/l | 12097.48 |
| Cd | 111 | 159 | 1 | NO GAS | 1.093 | ug/l | 6381.00 |
| Cd | 111 | 159 | 3 | He | 1.118 | ug/l | 1599.10 |
| Cd | 114 | 159 | 1 | NO GAS | 1.187 | ug/l | 15408.89 |
| Cd | 114 | 159 | 3 | He | 1.161 | ug/l | 4161.25 |
| Sn | 118 | 159 | 1 | NO GAS | -1.453 | ug/l | 22641.28 |
| Sn | 118 | 159 | 3 | He | -1.285 | ug/l | 3375.94 |
| Sb | 121 | 159 | 1 | NO GAS | 1.070 | ug/l | 25777.58 |
| Sb | 121 | 159 | 3 | He | 1.059 | ug/l | 3599.32 |
| Sb | 123 | 159 | 1 | NO GAS | 1.048 | ug/l | 20038.17 |
| Sb | 123 | 159 | 3 | He | 1.074 | ug/l | 3018.09 |
| Ba | 135 | 159 | 1 | NO GAS | 1.043 | ug/l | 5450.18 |
| Ba | 137 | 159 | 1 | NO GAS | 1.101 | ug/l | 9790.37 |
| La | 139 | 175 | 1 | NO GAS | 1.211 | ug/l | 95328.64 |
| La | 139 | 175 | 3 | He | 1.165 | ug/l | 19879.50 |
| Ce | 140 | 175 | 1 | NO GAS | 1.201 | ug/l | 93082.94 |
| Ce | 140 | 175 | 3 | He | 1.228 | ug/l | 26492.51 |
| Hg | 201 | 175 | 1 | NO GAS | 0.024 | ug/l | 116.31 |
| Hg | 202 | 175 | 1 | NO GAS | 0.020 | ug/l | 255.95 |
| Hg | 202 | 175 | 3 | He | 0.022 | ug/l | 170.30 |
| Tl | 203 | 175 | 3 | He | 1.217 | ug/l | 16446.99 |
| Tl | 205 | 175 | 1 | NO GAS | 1.150 | ug/l | 72605.71 |
| Tl | 205 | 175 | 3 | He | 1.243 | ug/l | 39944.63 |
| [Pb] | 206 | 175 | 1 | NO GAS | 1.190 | ug/l | 25743.23 |
| [Pb] | 207 | 175 | 1 | NO GAS | 1.196 | ug/l | 22146.40 |
| Pb | 208 | 175 | 1 | NO GAS | 1.194 | ug/l | 101651.07 |
| Th | 232 | 175 | 3 | He | 1.020 | ug/l | 49777.22 |
| U | 238 | 175 | 1 | NO GAS | 1.158 | ug/l | 113361.13 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1740750.41 | 96.2 |
| Sc | 45 | 2 | H2 | 76328.02 | 92.8 |
| Sc | 45 | 3 | He | 47286.89 | 94.8 |
| Ge | 72 | 1 | NO GAS | 808284.43 | 97.6 |
| Ge | 72 | 2 | H2 | 112126.15 | 95.7 |
| Ge | 72 | 3 | He | 74476.43 | 96.3 |
| Tb | 159 | 1 | NO GAS | 18333608.79 | 107.4 |
| Tb | 159 | 3 | He | 6818448.26 | 97.1 |
| Ho | 165 | 1 | NO GAS | 16961631.66 | 104.6 |
| Ho | 165 | 3 | He | 6550177.13 | 97.3 |
| Lu | 175 | 1 | NO GAS | 18496825.13 | 105.0 |
| Lu | 175 | 3 | He | 4126245.42 | 96.3 |

ICPMS206-B Analytical Data

Sample Name 10 PPB STD
File Name 011CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 19:17:26
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----|
| Li | 7 | 165 | 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 | |
| Cr | 53 | 72 | 1 | NO GAS | | 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 | |
| Ni | 62 | 72 | 1 | NO GAS | | 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 | |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----|
| Mo | 95 | 72 | 1 | NO GAS | | ug/l | |
| Mo | 95 | 72 | 3 | He | | ug/l | |
| Mo | 98 | 72 | 1 | NO GAS | | ug/l | |
| Ag | 107 | 72 | 1 | NO GAS | | ug/l | |
| Ag | 109 | 72 | 1 | NO GAS | | ug/l | |
| Cd | 111 | 159 | 1 | NO GAS | | ug/l | |
| Cd | 111 | 159 | 3 | He | | ug/l | |
| Cd | 114 | 159 | 1 | NO GAS | | ug/l | |
| Cd | 114 | 159 | 3 | He | | ug/l | |
| Sn | 118 | 159 | 1 | NO GAS | | ug/l | |
| Sn | 118 | 159 | 3 | He | | ug/l | |
| Sb | 121 | 159 | 1 | NO GAS | | ug/l | |
| Sb | 121 | 159 | 3 | He | | ug/l | |
| Sb | 123 | 159 | 1 | NO GAS | | ug/l | |
| Sb | 123 | 159 | 3 | He | | ug/l | |
| Ba | 135 | 159 | 1 | NO GAS | | ug/l | |
| Ba | 137 | 159 | 1 | NO GAS | | ug/l | |
| La | 139 | 175 | 1 | NO GAS | | ug/l | |
| La | 139 | 175 | 3 | He | | ug/l | |
| Ce | 140 | 175 | 1 | NO GAS | | ug/l | |
| Ce | 140 | 175 | 3 | He | | ug/l | |
| Hg | 201 | 175 | 1 | NO GAS | | ug/l | |
| Hg | 202 | 175 | 1 | NO GAS | | ug/l | |
| Hg | 202 | 175 | 3 | He | | ug/l | |
| Tl | 203 | 175 | 3 | He | | ug/l | |
| Tl | 205 | 175 | 1 | NO GAS | | ug/l | |
| Tl | 205 | 175 | 3 | He | | ug/l | |
| [Pb] | 206 | 175 | 1 | NO GAS | | ug/l | |
| [Pb] | 207 | 175 | 1 | NO GAS | | ug/l | |
| Pb | 208 | 175 | 1 | NO GAS | | ug/l | |
| Th | 232 | 175 | 3 | He | | ug/l | |
| U | 238 | 175 | 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 | | |
| 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 | | |

ICPMS206-B Analytical Data

Sample Name 50 PPB STD
File Name 012CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 19:23:25
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 560.694 | ug/l | 323855.60 |
| Be | 9 | 45 | 1 | NO GAS | 49.457 | ug/l | 14154.54 |
| B | 11 | 45 | 1 | NO GAS | 50.505 | ug/l | 10932.60 |
| Na | 23 | 45 | 3 | He | 13062.949 | ug/l | 1166676.20 |
| Mg | 24 | 45 | 3 | He | 12686.535 | ug/l | 570437.21 |
| Al | 27 | 45 | 1 | NO GAS | 49.544 | ug/l | 157843.86 |
| Si | 28 | 45 | 2 | H2 | 215.915 | ug/l | 4339.03 |
| K | 39 | 72 | 3 | He | 12823.539 | ug/l | 515887.38 |
| Ca | 40 | 72 | 2 | H2 | 13627.909 | ug/l | 2461686.16 |
| Ti | 47 | 72 | 1 | NO GAS | 51.776 | ug/l | 46799.51 |
| V | 51 | 72 | 1 | NO GAS | 48.686 | ug/l | 651750.23 |
| V | 51 | 72 | 3 | He | 51.929 | ug/l | 68074.90 |
| Cr | 52 | 72 | 1 | NO GAS | 49.811 | ug/l | 620155.67 |
| Cr | 52 | 72 | 3 | He | 52.102 | ug/l | 93247.94 |
| Cr | 53 | 72 | 1 | NO GAS | 55.092 | ug/l | 137616.54 |
| Mn | 55 | 72 | 1 | NO GAS | 50.072 | ug/l | 907435.16 |
| Mn | 55 | 72 | 3 | He | 51.910 | ug/l | 45090.41 |
| Fe | 56 | 72 | 2 | H2 | 1363.378 | ug/l | 1368639.13 |
| Fe | 56 | 72 | 3 | He | 1286.386 | ug/l | 2076689.98 |
| Co | 59 | 72 | 1 | NO GAS | 50.272 | ug/l | 822273.36 |
| Ni | 60 | 72 | 1 | NO GAS | 50.821 | ug/l | 183939.64 |
| Ni | 60 | 72 | 3 | He | 52.479 | ug/l | 59459.02 |
| Ni | 62 | 72 | 1 | NO GAS | 50.027 | ug/l | 28787.85 |
| Cu | 63 | 72 | 1 | NO GAS | 52.044 | ug/l | 471979.82 |
| Cu | 63 | 72 | 3 | He | 52.082 | ug/l | 176562.07 |
| Cu | 65 | 72 | 1 | NO GAS | 51.988 | ug/l | 233610.41 |
| Zn | 66 | 72 | 1 | NO GAS | 51.207 | ug/l | 153402.25 |
| Zn | 66 | 72 | 3 | He | 52.726 | ug/l | 26367.48 |
| As | 75 | 72 | 1 | NO GAS | 49.254 | ug/l | 166783.21 |
| As | 75 | 72 | 3 | He | 51.473 | ug/l | 16601.25 |
| Se | 78 | 72 | 2 | H2 | 51.869 | ug/l | 5745.19 |
| Br | 79 | 72 | 1 | NO GAS | -2.138 | ug/l | 50960.83 |
| Br | 79 | 72 | 2 | H2 | -1.008 | ug/l | 7067.54 |
| Se | 82 | 72 | 1 | NO GAS | 49.706 | ug/l | 14171.59 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 16968.51 |
| Sr | 88 | 72 | 1 | NO GAS | 51.381 | ug/l | 1850338.10 |
| Sr | 88 | 72 | 3 | He | 52.132 | ug/l | 82695.21 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 53.703 | ug/l | 438019.95 |
| Mo | 95 | 72 | 3 | He | 54.407 | ug/l | 146988.75 |
| Mo | 98 | 72 | 1 | NO GAS | 53.230 | ug/l | 741125.26 |
| Ag | 107 | 72 | 1 | NO GAS | 20.887 | ug/l | 484301.27 |
| Ag | 109 | 72 | 1 | NO GAS | 20.392 | ug/l | 462998.02 |
| Cd | 111 | 159 | 1 | NO GAS | 47.895 | ug/l | 278836.36 |
| Cd | 111 | 159 | 3 | He | 50.056 | ug/l | 72724.75 |
| Cd | 114 | 159 | 1 | NO GAS | 49.319 | ug/l | 650257.62 |
| Cd | 114 | 159 | 3 | He | 51.439 | ug/l | 189770.00 |
| Sn | 118 | 159 | 1 | NO GAS | 50.108 | ug/l | 863717.19 |
| Sn | 118 | 159 | 3 | He | 50.381 | ug/l | 134637.09 |
| Sb | 121 | 159 | 1 | NO GAS | 50.918 | ug/l | 1213988.43 |
| Sb | 121 | 159 | 3 | He | 52.602 | ug/l | 180042.90 |
| Sb | 123 | 159 | 1 | NO GAS | 50.323 | ug/l | 952457.92 |
| Sb | 123 | 159 | 3 | He | 52.304 | ug/l | 148244.48 |
| Ba | 135 | 159 | 1 | NO GAS | 49.129 | ug/l | 253539.15 |
| Ba | 137 | 159 | 1 | NO GAS | 49.625 | ug/l | 438635.08 |
| La | 139 | 175 | 1 | NO GAS | 48.818 | ug/l | 3967313.03 |
| La | 139 | 175 | 3 | He | 50.544 | ug/l | 887907.78 |
| Ce | 140 | 175 | 1 | NO GAS | 48.839 | ug/l | 3906090.69 |
| Ce | 140 | 175 | 3 | He | 51.248 | ug/l | 1137923.29 |
| Hg | 201 | 175 | 1 | NO GAS | 0.964 | ug/l | 4116.74 |
| Hg | 202 | 175 | 1 | NO GAS | 0.963 | ug/l | 9558.44 |
| Hg | 202 | 175 | 3 | He | 1.032 | ug/l | 7066.24 |
| Tl | 203 | 175 | 3 | He | 52.454 | ug/l | 728816.58 |
| Tl | 205 | 175 | 1 | NO GAS | 49.706 | ug/l | 3240047.73 |
| Tl | 205 | 175 | 3 | He | 52.933 | ug/l | 1748352.75 |
| [Pb] | 206 | 175 | 1 | NO GAS | 50.555 | ug/l | 1127734.86 |
| [Pb] | 207 | 175 | 1 | NO GAS | 50.496 | ug/l | 965164.41 |
| Pb | 208 | 175 | 1 | NO GAS | 50.346 | ug/l | 4422321.44 |
| Th | 232 | 175 | 3 | He | 52.435 | ug/l | 2606366.64 |
| U | 238 | 175 | 1 | NO GAS | 48.661 | ug/l | 4918836.32 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1967769.73 | 108.7 |
| Sc | 45 | 2 | H2 | 83934.99 | 102.0 |
| Sc | 45 | 3 | He | 51961.09 | 104.2 |
| Ge | 72 | 1 | NO GAS | 870598.78 | 105.1 |
| Ge | 72 | 2 | H2 | 116439.30 | 99.4 |
| Ge | 72 | 3 | He | 78120.38 | 101.0 |
| Tb | 159 | 1 | NO GAS | 18344296.98 | 107.5 |
| Tb | 159 | 3 | He | 6932729.67 | 98.8 |
| Ho | 165 | 1 | NO GAS | 17244047.40 | 106.4 |
| Ho | 165 | 3 | He | 6760363.77 | 100.4 |
| Lu | 175 | 1 | NO GAS | 19103118.90 | 108.5 |
| Lu | 175 | 3 | He | 4246511.99 | 99.2 |

ICPMS206-B Analytical Data

Sample Name 100 PPB STD
File Name 013CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 19:29:22
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 1237.556 | ug/l | 690838.25 |
| Be | 9 | 45 | 1 | NO GAS | 100.269 | ug/l | 29431.76 |
| B | 11 | 45 | 1 | NO GAS | 99.745 | ug/l | 22014.87 |
| Na | 23 | 45 | 3 | He | 25779.593 | ug/l | 2378231.47 |
| Mg | 24 | 45 | 3 | He | 25980.964 | ug/l | 1210980.79 |
| Al | 27 | 45 | 1 | NO GAS | 100.232 | ug/l | 325254.44 |
| Si | 28 | 45 | 2 | H2 | 392.044 | ug/l | 8218.35 |
| K | 39 | 72 | 3 | He | 25299.724 | ug/l | 1063589.55 |
| Ca | 40 | 72 | 2 | H2 | 27279.847 | ug/l | 5071960.84 |
| Ti | 47 | 72 | 1 | NO GAS | 99.111 | ug/l | 91414.33 |
| V | 51 | 72 | 1 | NO GAS | 100.645 | ug/l | 1381568.49 |
| V | 51 | 72 | 3 | He | 99.034 | ug/l | 135897.97 |
| Cr | 52 | 72 | 1 | NO GAS | 100.094 | ug/l | 1259092.38 |
| Cr | 52 | 72 | 3 | He | 98.949 | ug/l | 185110.98 |
| Cr | 53 | 72 | 1 | NO GAS | 97.457 | ug/l | 211858.97 |
| Mn | 55 | 72 | 1 | NO GAS | 99.962 | ug/l | 1846462.24 |
| Mn | 55 | 72 | 3 | He | 99.043 | ug/l | 90117.04 |
| Fe | 56 | 72 | 2 | H2 | 2653.759 | ug/l | 2738645.97 |
| Fe | 56 | 72 | 3 | He | 2569.146 | ug/l | 4343440.12 |
| Co | 59 | 72 | 1 | NO GAS | 99.862 | ug/l | 1665388.25 |
| Ni | 60 | 72 | 1 | NO GAS | 99.587 | ug/l | 367441.50 |
| Ni | 60 | 72 | 3 | He | 98.758 | ug/l | 117187.92 |
| Ni | 62 | 72 | 1 | NO GAS | 99.982 | ug/l | 58301.78 |
| Cu | 63 | 72 | 1 | NO GAS | 98.974 | ug/l | 915242.15 |
| Cu | 63 | 72 | 3 | He | 98.956 | ug/l | 351366.29 |
| Cu | 65 | 72 | 1 | NO GAS | 99.002 | ug/l | 453694.56 |
| Zn | 66 | 72 | 1 | NO GAS | 99.395 | ug/l | 302261.46 |
| Zn | 66 | 72 | 3 | He | 98.638 | ug/l | 51421.95 |
| As | 75 | 72 | 1 | NO GAS | 100.372 | ug/l | 343299.83 |
| As | 75 | 72 | 3 | He | 99.262 | ug/l | 33532.77 |
| Se | 78 | 72 | 2 | H2 | 99.064 | ug/l | 11286.58 |
| Br | 79 | 72 | 1 | NO GAS | 0.533 | ug/l | 69831.41 |
| Br | 79 | 72 | 2 | H2 | 1.760 | ug/l | 9870.10 |
| Se | 82 | 72 | 1 | NO GAS | 100.154 | ug/l | 28670.07 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 27705.12 |
| Sr | 88 | 72 | 1 | NO GAS | 99.307 | ug/l | 3647668.12 |
| Sr | 88 | 72 | 3 | He | 98.932 | ug/l | 164210.43 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 98.146 | ug/l | 816585.45 |
| Mo | 95 | 72 | 3 | He | 97.795 | ug/l | 276797.13 |
| Mo | 98 | 72 | 1 | NO GAS | 98.382 | ug/l | 1398071.72 |
| Ag | 107 | 72 | 1 | NO GAS | 39.555 | ug/l | 934114.35 |
| Ag | 109 | 72 | 1 | NO GAS | 39.803 | ug/l | 920366.49 |
| Cd | 111 | 159 | 1 | NO GAS | 101.051 | ug/l | 568330.79 |
| Cd | 111 | 159 | 3 | He | 99.970 | ug/l | 144397.39 |
| Cd | 114 | 159 | 1 | NO GAS | 100.338 | ug/l | 1277875.25 |
| Cd | 114 | 159 | 3 | He | 99.278 | ug/l | 364339.87 |
| Sn | 118 | 159 | 1 | NO GAS | 99.988 | ug/l | 1619194.09 |
| Sn | 118 | 159 | 3 | He | 99.848 | ug/l | 258821.25 |
| Sb | 121 | 159 | 1 | NO GAS | 99.540 | ug/l | 2291202.52 |
| Sb | 121 | 159 | 3 | He | 98.698 | ug/l | 335981.56 |
| Sb | 123 | 159 | 1 | NO GAS | 99.838 | ug/l | 1824477.86 |
| Sb | 123 | 159 | 3 | He | 98.847 | ug/l | 278596.77 |
| Ba | 135 | 159 | 1 | NO GAS | 100.435 | ug/l | 500441.52 |
| Ba | 137 | 159 | 1 | NO GAS | 100.186 | ug/l | 855065.89 |
| La | 139 | 175 | 1 | NO GAS | 100.588 | ug/l | 7867600.92 |
| La | 139 | 175 | 3 | He | 99.726 | ug/l | 1802547.15 |
| Ce | 140 | 175 | 1 | NO GAS | 100.578 | ug/l | 7741894.85 |
| Ce | 140 | 175 | 3 | He | 99.373 | ug/l | 2270353.16 |
| Hg | 201 | 175 | 1 | NO GAS | 2.018 | ug/l | 8278.61 |
| Hg | 202 | 175 | 1 | NO GAS | 2.019 | ug/l | 19223.62 |
| Hg | 202 | 175 | 3 | He | 1.984 | ug/l | 13947.26 |
| Tl | 203 | 175 | 3 | He | 98.770 | ug/l | 1411955.72 |
| Tl | 205 | 175 | 1 | NO GAS | 100.145 | ug/l | 6284338.73 |
| Tl | 205 | 175 | 3 | He | 98.530 | ug/l | 3348724.94 |
| [Pb] | 206 | 175 | 1 | NO GAS | 99.720 | ug/l | 2141241.05 |
| [Pb] | 207 | 175 | 1 | NO GAS | 99.750 | ug/l | 1836363.27 |
| Pb | 208 | 175 | 1 | NO GAS | 99.825 | ug/l | 8442902.55 |
| Th | 232 | 175 | 3 | He | 98.783 | ug/l | 5051747.11 |
| U | 238 | 175 | 1 | NO GAS | 100.668 | ug/l | 9796920.79 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2017741.94 | 111.5 |
| Sc | 45 | 2 | H2 | 87822.27 | 106.7 |
| Sc | 45 | 3 | He | 53867.28 | 108.0 |
| Ge | 72 | 1 | NO GAS | 887229.50 | 107.1 |
| Ge | 72 | 2 | H2 | 119850.80 | 102.3 |
| Ge | 72 | 3 | He | 81848.38 | 105.8 |
| Tb | 159 | 1 | NO GAS | 17700040.25 | 103.7 |
| Tb | 159 | 3 | He | 6896905.47 | 98.3 |
| Ho | 165 | 1 | NO GAS | 16706796.73 | 103.1 |
| Ho | 165 | 3 | He | 6655497.76 | 98.8 |
| Lu | 175 | 1 | NO GAS | 18396241.01 | 104.5 |
| Lu | 175 | 3 | He | 4369241.74 | 102.0 |

ICPMS206-B Analytical Data

Sample Name 1000 PPB STD
File Name 014CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 19:35:12
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 2522.307 | ug/l | 1388842.39 |
| Be | 9 | 45 | 1 | NO GAS | 973.004 | ug/l | 284222.54 |
| B | 11 | 45 | 1 | NO GAS | 967.517 | ug/l | 211374.97 |
| Na | 23 | 45 | 3 | He | 49469.123 | ug/l | 4587837.33 |
| Mg | 24 | 45 | 3 | He | 49462.744 | ug/l | 2322153.20 |
| Al | 27 | 45 | 1 | NO GAS | 992.781 | ug/l | 3195331.13 |
| Si | 28 | 45 | 2 | H2 | 1.486 | ug/l | 59.99 |
| K | 39 | 72 | 3 | He | 49769.075 | ug/l | 2094381.90 |
| Ca | 40 | 72 | 2 | H2 | 48577.880 | ug/l | 9072103.89 |
| Ti | 47 | 72 | 1 | NO GAS | 5.870 | ug/l | 5206.61 |
| V | 51 | 72 | 1 | NO GAS | 1035.586 | ug/l | 13669312.56 |
| V | 51 | 72 | 3 | He | 950.586 | ug/l | 1306530.42 |
| Cr | 52 | 72 | 1 | NO GAS | 1029.214 | ug/l | 12307875.19 |
| Cr | 52 | 72 | 3 | He | 948.337 | ug/l | 1774907.16 |
| Cr | 53 | 72 | 1 | NO GAS | 912.446 | ug/l | 1522409.66 |
| Mn | 55 | 72 | 1 | NO GAS | 1060.731 | ug/l | 18777735.85 |
| Mn | 55 | 72 | 3 | He | 962.584 | ug/l | 878034.55 |
| Fe | 56 | 72 | 2 | H2 | 5962.945 | ug/l | 6181761.15 |
| Fe | 56 | 72 | 3 | He | 6016.300 | ug/l | 10193287.52 |
| Co | 59 | 72 | 1 | NO GAS | 1028.285 | ug/l | 16422713.43 |
| Ni | 60 | 72 | 1 | NO GAS | 993.777 | ug/l | 3509047.57 |
| Ni | 60 | 72 | 3 | He | 1011.519 | ug/l | 1202620.09 |
| Ni | 62 | 72 | 1 | NO GAS | 965.200 | ug/l | 535650.32 |
| Cu | 63 | 72 | 1 | NO GAS | 967.569 | ug/l | 8573920.02 |
| Cu | 63 | 72 | 3 | He | 968.234 | ug/l | 3445981.02 |
| Cu | 65 | 72 | 1 | NO GAS | 942.036 | ug/l | 4136174.63 |
| Zn | 66 | 72 | 1 | NO GAS | 962.638 | ug/l | 2795070.76 |
| Zn | 66 | 72 | 3 | He | 971.552 | ug/l | 505149.21 |
| As | 75 | 72 | 1 | NO GAS | 975.464 | ug/l | 3169571.56 |
| As | 75 | 72 | 3 | He | 956.882 | ug/l | 323998.96 |
| Se | 78 | 72 | 2 | H2 | 911.501 | ug/l | 104288.95 |
| Br | 79 | 72 | 1 | NO GAS | 0.977 | ug/l | 69731.60 |
| Br | 79 | 72 | 2 | H2 | 3.514 | ug/l | 11554.55 |
| Se | 82 | 72 | 1 | NO GAS | 984.179 | ug/l | 266041.04 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 220171.89 |
| Sr | 88 | 72 | 1 | NO GAS | 1017.415 | ug/l | 35819550.57 |
| Sr | 88 | 72 | 3 | He | 950.741 | ug/l | 1579869.53 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 0.069 | ug/l | 667.80 |
| Mo | 95 | 72 | 3 | He | 0.061 | ug/l | 203.34 |
| Mo | 98 | 72 | 1 | NO GAS | 0.081 | ug/l | 1275.63 |
| Ag | 107 | 72 | 1 | NO GAS | 407.784 | ug/l | 9219897.80 |
| Ag | 109 | 72 | 1 | NO GAS | 400.752 | ug/l | 8867049.46 |
| Cd | 111 | 159 | 1 | NO GAS | 990.434 | ug/l | 5477676.89 |
| Cd | 111 | 159 | 3 | He | 919.491 | ug/l | 1352189.73 |
| Cd | 114 | 159 | 1 | NO GAS | 1008.136 | ug/l | 12635585.41 |
| Cd | 114 | 159 | 3 | He | 915.750 | ug/l | 3420308.12 |
| Sn | 118 | 159 | 1 | NO GAS | -2.643 | ug/l | 3080.88 |
| Sn | 118 | 159 | 3 | He | -2.451 | ug/l | 476.68 |
| Sb | 121 | 159 | 1 | NO GAS | 0.124 | ug/l | 3042.54 |
| Sb | 121 | 159 | 3 | He | 0.093 | ug/l | 358.90 |
| Sb | 123 | 159 | 1 | NO GAS | 0.134 | ug/l | 2574.67 |
| Sb | 123 | 159 | 3 | He | 0.101 | ug/l | 315.56 |
| Ba | 135 | 159 | 1 | NO GAS | 928.264 | ug/l | 4553663.78 |
| Ba | 137 | 159 | 1 | NO GAS | 918.525 | ug/l | 7716523.77 |
| La | 139 | 175 | 1 | NO GAS | 0.011 | ug/l | 924.31 |
| La | 139 | 175 | 3 | He | 0.008 | ug/l | 136.81 |
| Ce | 140 | 175 | 1 | NO GAS | 0.019 | ug/l | 1458.24 |
| Ce | 140 | 175 | 3 | He | 0.024 | ug/l | 553.91 |
| Hg | 201 | 175 | 1 | NO GAS | 0.012 | ug/l | 63.65 |
| Hg | 202 | 175 | 1 | NO GAS | 0.017 | ug/l | 218.29 |
| Hg | 202 | 175 | 3 | He | 0.010 | ug/l | 96.31 |
| Tl | 203 | 175 | 3 | He | 924.927 | ug/l | 13099310.70 |
| Tl | 205 | 175 | 1 | NO GAS | 984.107 | ug/l | 60364646.32 |
| Tl | 205 | 175 | 3 | He | 940.265 | ug/l | 31659645.02 |
| [Pb] | 206 | 175 | 1 | NO GAS | 957.280 | ug/l | 20089174.28 |
| [Pb] | 207 | 175 | 1 | NO GAS | 965.386 | ug/l | 17363788.77 |
| Pb | 208 | 175 | 1 | NO GAS | 963.375 | ug/l | 79626606.31 |
| Th | 232 | 175 | 3 | He | 955.638 | ug/l | 48417683.52 |
| U | 238 | 175 | 1 | NO GAS | 983.726 | ug/l | 93547596.71 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2015790.65 | 111.4 |
| Sc | 45 | 2 | H2 | 85683.62 | 104.1 |
| Sc | 45 | 3 | He | 54249.84 | 108.8 |
| Ge | 72 | 1 | NO GAS | 849970.83 | 102.6 |
| Ge | 72 | 2 | H2 | 120272.12 | 102.6 |
| Ge | 72 | 3 | He | 82037.18 | 106.1 |
| Tb | 159 | 1 | NO GAS | 17460571.63 | 102.3 |
| Tb | 159 | 3 | He | 7019733.23 | 100.0 |
| Ho | 165 | 1 | NO GAS | 16549048.78 | 102.1 |
| Ho | 165 | 3 | He | 6741490.21 | 100.1 |
| Lu | 175 | 1 | NO GAS | 17992279.77 | 102.2 |
| Lu | 175 | 3 | He | 4328796.04 | 101.1 |

ICPMS206-B Analytical Data

Sample Name 100 ppb Bromine
File Name 015CALB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 19:40:51
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 4.342 | ug/l | 4307.02 |
| Be | 9 | 45 | 1 | NO GAS | 0.147 | ug/l | 46.99 |
| B | 11 | 45 | 1 | NO GAS | 6.119 | ug/l | 1415.12 |
| Na | 23 | 45 | 3 | He | 56.813 | ug/l | 12869.28 |
| Mg | 24 | 45 | 3 | He | 3.977 | ug/l | 216.24 |
| Al | 27 | 45 | 1 | NO GAS | 7.645 | ug/l | 25609.14 |
| Si | 28 | 45 | 2 | H2 | -0.361 | ug/l | 21.33 |
| K | 39 | 72 | 3 | He | 537.983 | ug/l | 24380.78 |
| Ca | 40 | 72 | 2 | H2 | 8.743 | ug/l | 2154.09 |
| Ti | 47 | 72 | 1 | NO GAS | 0.054 | ug/l | 73.30 |
| V | 51 | 72 | 1 | NO GAS | -0.216 | ug/l | -9299.58 |
| V | 51 | 72 | 3 | He | 0.089 | ug/l | 240.00 |
| Cr | 52 | 72 | 1 | NO GAS | 0.055 | ug/l | 11511.19 |
| Cr | 52 | 72 | 3 | He | 0.001 | ug/l | 425.83 |
| Cr | 53 | 72 | 1 | NO GAS | 1.209 | ug/l | 47769.87 |
| Mn | 55 | 72 | 1 | NO GAS | 0.121 | ug/l | 2887.89 |
| Mn | 55 | 72 | 3 | He | 0.120 | ug/l | 110.34 |
| Fe | 56 | 72 | 2 | H2 | 0.848 | ug/l | 1784.22 |
| Fe | 56 | 72 | 3 | He | 0.751 | ug/l | 2735.56 |
| Co | 59 | 72 | 1 | NO GAS | 0.082 | ug/l | 1380.67 |
| Ni | 60 | 72 | 1 | NO GAS | 0.207 | ug/l | 808.52 |
| Ni | 60 | 72 | 3 | He | 0.168 | ug/l | 237.78 |
| Ni | 62 | 72 | 1 | NO GAS | 0.144 | ug/l | 492.37 |
| Cu | 63 | 72 | 1 | NO GAS | 0.170 | ug/l | 1735.08 |
| Cu | 63 | 72 | 3 | He | 0.157 | ug/l | 611.22 |
| Cu | 65 | 72 | 1 | NO GAS | 0.169 | ug/l | 854.52 |
| Zn | 66 | 72 | 1 | NO GAS | 0.343 | ug/l | 2242.29 |
| Zn | 66 | 72 | 3 | He | 0.214 | ug/l | 385.56 |
| As | 75 | 72 | 1 | NO GAS | 0.732 | ug/l | 5430.68 |
| As | 75 | 72 | 3 | He | 0.167 | ug/l | 58.32 |
| Se | 78 | 72 | 2 | H2 | 0.204 | ug/l | 24.00 |
| Br | 79 | 72 | 1 | NO GAS | 100.000 | ug/l | 715262.29 |
| Br | 79 | 72 | 2 | H2 | 100.000 | ug/l | 101937.46 |
| Se | 82 | 72 | 1 | NO GAS | 2.754 | ug/l | 1184.44 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6644.89 |
| Sr | 88 | 72 | 1 | NO GAS | 0.101 | ug/l | 3936.03 |
| Sr | 88 | 72 | 3 | He | 0.084 | ug/l | 363.34 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.012 | ug/l | 221.12 |
| Mo | 95 | 72 | 3 | He | 0.013 | ug/l | 63.33 |
| Mo | 98 | 72 | 1 | NO GAS | 0.012 | ug/l | 340.02 |
| Ag | 107 | 72 | 1 | NO GAS | 0.219 | ug/l | 6912.78 |
| Ag | 109 | 72 | 1 | NO GAS | 0.224 | ug/l | 6657.40 |
| Cd | 111 | 159 | 1 | NO GAS | 0.082 | ug/l | 486.10 |
| Cd | 111 | 159 | 3 | He | 0.089 | ug/l | 134.64 |
| Cd | 114 | 159 | 1 | NO GAS | 0.096 | ug/l | 1023.84 |
| Cd | 114 | 159 | 3 | He | 0.102 | ug/l | 333.33 |
| Sn | 118 | 159 | 1 | NO GAS | -2.525 | ug/l | 5127.39 |
| Sn | 118 | 159 | 3 | He | -2.337 | ug/l | 787.80 |
| Sb | 121 | 159 | 1 | NO GAS | 0.021 | ug/l | 745.58 |
| Sb | 121 | 159 | 3 | He | 0.024 | ug/l | 121.11 |
| Sb | 123 | 159 | 1 | NO GAS | 0.024 | ug/l | 652.24 |
| Sb | 123 | 159 | 3 | He | 0.023 | ug/l | 93.34 |
| Ba | 135 | 159 | 1 | NO GAS | 0.118 | ug/l | 672.02 |
| Ba | 137 | 159 | 1 | NO GAS | 0.111 | ug/l | 1037.98 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 153.49 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 26.69 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 250.26 |
| Ce | 140 | 175 | 3 | He | 0.002 | ug/l | 60.06 |
| Hg | 201 | 175 | 1 | NO GAS | 0.005 | ug/l | 36.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.006 | ug/l | 120.64 |
| Hg | 202 | 175 | 3 | He | 0.007 | ug/l | 75.65 |
| Tl | 203 | 175 | 3 | He | 0.135 | ug/l | 1873.75 |
| Tl | 205 | 175 | 1 | NO GAS | 0.129 | ug/l | 8181.15 |
| Tl | 205 | 175 | 3 | He | 0.141 | ug/l | 4669.81 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.103 | ug/l | 2267.97 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.104 | ug/l | 1963.47 |
| Pb | 208 | 175 | 1 | NO GAS | 0.104 | ug/l | 9028.92 |
| Th | 232 | 175 | 3 | He | 0.350 | ug/l | 17749.73 |
| U | 238 | 175 | 1 | NO GAS | 0.149 | ug/l | 14650.98 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1926955.66 | 106.5 |
| Sc | 45 | 2 | H2 | 82441.58 | 100.2 |
| Sc | 45 | 3 | He | 50156.91 | 100.6 |
| Ge | 72 | 1 | NO GAS | 859701.74 | 103.8 |
| Ge | 72 | 2 | H2 | 119867.64 | 102.3 |
| Ge | 72 | 3 | He | 78425.74 | 101.4 |
| Tb | 159 | 1 | NO GAS | 18281725.25 | 107.1 |
| Tb | 159 | 3 | He | 7176495.67 | 102.2 |
| Ho | 165 | 1 | NO GAS | 17209695.76 | 106.2 |
| Ho | 165 | 3 | He | 6788120.59 | 100.8 |
| Lu | 175 | 1 | NO GAS | 18497819.04 | 105.0 |
| Lu | 175 | 3 | He | 4206813.85 | 98.2 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 016BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 19:46:41
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 1.740 | ug/l | 2872.67 |
| Be | 9 | 45 | 1 | NO GAS | 0.029 | ug/l | 14.67 |
| B | 11 | 45 | 1 | NO GAS | 1.759 | ug/l | 535.90 |
| Na | 23 | 45 | 3 | He | 1.751 | ug/l | 8939.02 |
| Mg | 24 | 45 | 3 | He | -0.310 | ug/l | 33.27 |
| Al | 27 | 45 | 1 | NO GAS | -0.236 | ug/l | 1428.20 |
| Si | 28 | 45 | 2 | H2 | -0.007 | ug/l | 32.66 |
| K | 39 | 72 | 3 | He | 3.341 | ug/l | 2994.73 |
| Ca | 40 | 72 | 2 | H2 | 1.085 | ug/l | 784.63 |
| Ti | 47 | 72 | 1 | NO GAS | 0.045 | ug/l | 68.30 |
| V | 51 | 72 | 1 | NO GAS | -0.119 | ug/l | -8307.98 |
| V | 51 | 72 | 3 | He | -0.014 | ug/l | 107.78 |
| Cr | 52 | 72 | 1 | NO GAS | -0.099 | ug/l | 10019.93 |
| Cr | 52 | 72 | 3 | He | -0.084 | ug/l | 282.78 |
| Cr | 53 | 72 | 1 | NO GAS | 0.746 | ug/l | 48838.72 |
| Mn | 55 | 72 | 1 | NO GAS | 0.006 | ug/l | 864.98 |
| Mn | 55 | 72 | 3 | He | 0.002 | ug/l | 8.33 |
| Fe | 56 | 72 | 2 | H2 | -0.072 | ug/l | 904.59 |
| Fe | 56 | 72 | 3 | He | 0.142 | ug/l | 1804.78 |
| Co | 59 | 72 | 1 | NO GAS | 0.011 | ug/l | 249.51 |
| Ni | 60 | 72 | 1 | NO GAS | 0.010 | ug/l | 103.13 |
| Ni | 60 | 72 | 3 | He | 0.052 | ug/l | 108.89 |
| Ni | 62 | 72 | 1 | NO GAS | 0.057 | ug/l | 459.10 |
| Cu | 63 | 72 | 1 | NO GAS | 0.012 | ug/l | 328.61 |
| Cu | 63 | 72 | 3 | He | 0.007 | ug/l | 103.31 |
| Cu | 65 | 72 | 1 | NO GAS | 0.010 | ug/l | 153.31 |
| Zn | 66 | 72 | 1 | NO GAS | -0.206 | ug/l | 652.01 |
| Zn | 66 | 72 | 3 | He | -0.374 | ug/l | 96.67 |
| As | 75 | 72 | 1 | NO GAS | -0.213 | ug/l | 2408.43 |
| As | 75 | 72 | 3 | He | 0.033 | ug/l | 15.67 |
| Se | 78 | 72 | 2 | H2 | 0.057 | ug/l | 7.67 |
| Br | 79 | 72 | 1 | NO GAS | 0.305 | ug/l | 68705.81 |
| Br | 79 | 72 | 2 | H2 | 0.686 | ug/l | 9550.53 |
| Se | 82 | 72 | 1 | NO GAS | 0.158 | ug/l | 487.06 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6761.36 |
| Sr | 88 | 72 | 1 | NO GAS | 0.007 | ug/l | 598.83 |
| Sr | 88 | 72 | 3 | He | 0.015 | ug/l | 262.22 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.008 | ug/l | 196.67 |
| Mo | 95 | 72 | 3 | He | 0.003 | ug/l | 40.00 |
| Mo | 98 | 72 | 1 | NO GAS | 0.007 | ug/l | 276.67 |
| Ag | 107 | 72 | 1 | NO GAS | 0.008 | ug/l | 2193.06 |
| Ag | 109 | 72 | 1 | NO GAS | 0.017 | ug/l | 2132.06 |
| Cd | 111 | 159 | 1 | NO GAS | -0.007 | ug/l | -27.94 |
| Cd | 111 | 159 | 3 | He | 0.005 | ug/l | 8.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.007 | ug/l | -149.54 |
| Cd | 114 | 159 | 3 | He | 0.023 | ug/l | 35.94 |
| Sn | 118 | 159 | 1 | NO GAS | -2.669 | ug/l | 2811.53 |
| Sn | 118 | 159 | 3 | He | -2.497 | ug/l | 372.23 |
| Sb | 121 | 159 | 1 | NO GAS | 0.008 | ug/l | 444.46 |
| Sb | 121 | 159 | 3 | He | 0.007 | ug/l | 62.22 |
| Sb | 123 | 159 | 1 | NO GAS | 0.007 | ug/l | 320.01 |
| Sb | 123 | 159 | 3 | He | 0.011 | ug/l | 61.11 |
| Ba | 135 | 159 | 1 | NO GAS | 0.002 | ug/l | 73.19 |
| Ba | 137 | 159 | 1 | NO GAS | 0.013 | ug/l | 169.67 |
| La | 139 | 175 | 1 | NO GAS | 0.002 | ug/l | 223.57 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 40.04 |
| Ce | 140 | 175 | 1 | NO GAS | 0.005 | ug/l | 470.67 |
| Ce | 140 | 175 | 3 | He | 0.002 | ug/l | 53.39 |
| Hg | 201 | 175 | 1 | NO GAS | 0.002 | ug/l | 26.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.002 | ug/l | 85.31 |
| Hg | 202 | 175 | 3 | He | 0.002 | ug/l | 41.99 |
| Tl | 203 | 175 | 3 | He | 0.026 | ug/l | 381.26 |
| Tl | 205 | 175 | 1 | NO GAS | 0.024 | ug/l | 1689.00 |
| Tl | 205 | 175 | 3 | He | 0.027 | ug/l | 980.51 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.009 | ug/l | 247.78 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.009 | ug/l | 214.45 |
| Pb | 208 | 175 | 1 | NO GAS | 0.009 | ug/l | 1033.36 |
| Th | 232 | 175 | 3 | He | 0.068 | ug/l | 4075.09 |
| U | 238 | 175 | 1 | NO GAS | 0.018 | ug/l | 1973.76 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2048412.97 | 113.2 |
| Sc | 45 | 2 | H2 | 94238.05 | 114.5 |
| Sc | 45 | 3 | He | 55008.67 | 110.3 |
| Ge | 72 | 1 | NO GAS | 892204.54 | 107.7 |
| Ge | 72 | 2 | H2 | 129137.26 | 110.2 |
| Ge | 72 | 3 | He | 80839.15 | 104.5 |
| Tb | 159 | 1 | NO GAS | 18406788.64 | 107.8 |
| Tb | 159 | 3 | He | 7303174.53 | 104.0 |
| Ho | 165 | 1 | NO GAS | 17593797.97 | 108.5 |
| Ho | 165 | 3 | He | 6968551.59 | 103.5 |
| Lu | 175 | 1 | NO GAS | 19703261.11 | 111.9 |
| Lu | 175 | 3 | He | 4451289.52 | 103.9 |

ICPMS206-B Analytical Data

Sample Name QCS
File Name 017_QCS.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 19:52:26
Sample Type QCS
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 46.755 | ug/l | 27849.27 |
| Be | 9 | 45 | 1 | NO GAS | 24.698 | ug/l | 6808.30 |
| B | 11 | 45 | 1 | NO GAS | 51.725 | ug/l | 10781.89 |
| Na | 23 | 45 | 3 | He | 2528.769 | ug/l | 228174.62 |
| Mg | 24 | 45 | 3 | He | 2484.635 | ug/l | 109640.64 |
| Al | 27 | 45 | 1 | NO GAS | 250.369 | ug/l | 759960.85 |
| Si | 28 | 45 | 2 | H2 | 474.886 | ug/l | 9526.78 |
| K | 39 | 72 | 3 | He | 2503.712 | ug/l | 101853.02 |
| Ca | 40 | 72 | 2 | H2 | 2592.258 | ug/l | 488529.94 |
| Ti | 47 | 72 | 1 | NO GAS | 47.297 | ug/l | 42036.23 |
| V | 51 | 72 | 1 | NO GAS | 46.421 | ug/l | 610274.78 |
| V | 51 | 72 | 3 | He | 49.674 | ug/l | 64503.42 |
| Cr | 52 | 72 | 1 | NO GAS | 50.632 | ug/l | 619064.02 |
| Cr | 52 | 72 | 3 | He | 51.224 | ug/l | 90770.87 |
| Cr | 53 | 72 | 1 | NO GAS | 49.872 | ug/l | 126709.08 |
| Mn | 55 | 72 | 1 | NO GAS | 255.688 | ug/l | 4550747.84 |
| Mn | 55 | 72 | 3 | He | 251.682 | ug/l | 216469.66 |
| Fe | 56 | 72 | 2 | H2 | 258.434 | ug/l | 271065.68 |
| Fe | 56 | 72 | 3 | He | 253.128 | ug/l | 405753.80 |
| Co | 59 | 72 | 1 | NO GAS | 51.529 | ug/l | 827862.96 |
| Ni | 60 | 72 | 1 | NO GAS | 50.239 | ug/l | 178592.14 |
| Ni | 60 | 72 | 3 | He | 51.468 | ug/l | 57714.25 |
| Ni | 62 | 72 | 1 | NO GAS | 52.481 | ug/l | 29674.23 |
| Cu | 63 | 72 | 1 | NO GAS | 52.432 | ug/l | 467253.76 |
| Cu | 63 | 72 | 3 | He | 53.152 | ug/l | 178401.69 |
| Cu | 65 | 72 | 1 | NO GAS | 53.596 | ug/l | 236676.27 |
| Zn | 66 | 72 | 1 | NO GAS | 54.618 | ug/l | 160599.91 |
| Zn | 66 | 72 | 3 | He | 51.478 | ug/l | 25505.06 |
| As | 75 | 72 | 1 | NO GAS | 50.581 | ug/l | 168241.85 |
| As | 75 | 72 | 3 | He | 49.288 | ug/l | 15739.59 |
| Se | 78 | 72 | 2 | H2 | 50.039 | ug/l | 5771.86 |
| Br | 79 | 72 | 1 | NO GAS | 1.222 | ug/l | 71759.78 |
| Br | 79 | 72 | 2 | H2 | 2.106 | ug/l | 10312.81 |
| Se | 82 | 72 | 1 | NO GAS | 53.090 | ug/l | 14847.70 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 17554.64 |
| Sr | 88 | 72 | 1 | NO GAS | 51.456 | ug/l | 1822542.09 |
| Sr | 88 | 72 | 3 | He | 52.572 | ug/l | 82581.67 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 51.030 | ug/l | 409137.21 |
| Mo | 95 | 72 | 3 | He | 50.676 | ug/l | 135549.01 |
| Mo | 98 | 72 | 1 | NO GAS | 50.202 | ug/l | 687390.64 |
| Ag | 107 | 72 | 1 | NO GAS | 27.352 | ug/l | 622930.92 |
| Ag | 109 | 72 | 1 | NO GAS | 26.938 | ug/l | 600780.87 |
| Cd | 111 | 159 | 1 | NO GAS | 25.793 | ug/l | 147694.17 |
| Cd | 111 | 159 | 3 | He | 25.266 | ug/l | 35876.43 |
| Cd | 114 | 159 | 1 | NO GAS | 26.419 | ug/l | 342558.23 |
| Cd | 114 | 159 | 3 | He | 25.516 | ug/l | 91998.26 |
| Sn | 118 | 159 | 1 | NO GAS | 49.977 | ug/l | 847743.45 |
| Sn | 118 | 159 | 3 | He | 47.885 | ug/l | 125442.70 |
| Sb | 121 | 159 | 1 | NO GAS | 47.957 | ug/l | 1124780.56 |
| Sb | 121 | 159 | 3 | He | 48.035 | ug/l | 160727.87 |
| Sb | 123 | 159 | 1 | NO GAS | 47.643 | ug/l | 887258.16 |
| Sb | 123 | 159 | 3 | He | 47.230 | ug/l | 130849.03 |
| Ba | 135 | 159 | 1 | NO GAS | 50.143 | ug/l | 254407.47 |
| Ba | 137 | 159 | 1 | NO GAS | 50.776 | ug/l | 441296.53 |
| La | 139 | 175 | 1 | NO GAS | 50.807 | ug/l | 3978789.25 |
| La | 139 | 175 | 3 | He | 52.116 | ug/l | 880588.68 |
| Ce | 140 | 175 | 1 | NO GAS | 49.910 | ug/l | 3845852.18 |
| Ce | 140 | 175 | 3 | He | 53.327 | ug/l | 1138957.67 |
| Hg | 201 | 175 | 1 | NO GAS | 1.008 | ug/l | 4146.08 |
| Hg | 202 | 175 | 1 | NO GAS | 0.979 | ug/l | 9364.02 |
| Hg | 202 | 175 | 3 | He | 1.031 | ug/l | 6791.17 |
| Tl | 203 | 175 | 3 | He | 53.078 | ug/l | 709365.88 |
| Tl | 205 | 175 | 1 | NO GAS | 51.708 | ug/l | 3248423.25 |
| Tl | 205 | 175 | 3 | He | 54.826 | ug/l | 1742163.01 |
| [Pb] | 206 | 175 | 1 | NO GAS | 51.590 | ug/l | 1108955.68 |
| [Pb] | 207 | 175 | 1 | NO GAS | 52.233 | ug/l | 962049.39 |
| Pb | 208 | 175 | 1 | NO GAS | 51.882 | ug/l | 4391550.99 |
| Th | 232 | 175 | 3 | He | 53.182 | ug/l | 2543304.44 |
| U | 238 | 175 | 1 | NO GAS | 53.531 | ug/l | 5214652.27 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1893943.88 | 104.7 |
| Sc | 45 | 2 | H2 | 84112.60 | 102.2 |
| Sc | 45 | 3 | He | 50989.25 | 102.3 |
| Ge | 72 | 1 | NO GAS | 854748.81 | 103.2 |
| Ge | 72 | 2 | H2 | 121316.42 | 103.5 |
| Ge | 72 | 3 | He | 77389.90 | 100.1 |
| Tb | 159 | 1 | NO GAS | 18030821.85 | 105.6 |
| Tb | 159 | 3 | He | 6778740.69 | 96.6 |
| Ho | 165 | 1 | NO GAS | 16745334.54 | 103.3 |
| Ho | 165 | 3 | He | 6559711.36 | 97.4 |
| Lu | 175 | 1 | NO GAS | 18401480.21 | 104.5 |
| Lu | 175 | 3 | He | 4084619.32 | 95.4 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 018_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 19:58:06
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 552.176 | ug/l | 313266.41 |
| Be | 9 | 45 | 1 | NO GAS | 49.547 | ug/l | 13893.06 |
| B | 11 | 45 | 1 | NO GAS | 51.284 | ug/l | 10874.59 |
| Na | 23 | 45 | 3 | He | 12546.525 | ug/l | 1140572.45 |
| Mg | 24 | 45 | 3 | He | 12204.282 | ug/l | 558501.45 |
| Al | 27 | 45 | 1 | NO GAS | 49.258 | ug/l | 153534.23 |
| Si | 28 | 45 | 2 | H2 | 214.263 | ug/l | 4365.70 |
| K | 39 | 72 | 3 | He | 12531.121 | ug/l | 507987.16 |
| Ca | 40 | 72 | 2 | H2 | 13176.927 | ug/l | 2457514.44 |
| Ti | 47 | 72 | 1 | NO GAS | 50.276 | ug/l | 45159.58 |
| V | 51 | 72 | 1 | NO GAS | 49.794 | ug/l | 659781.84 |
| V | 51 | 72 | 3 | He | 50.524 | ug/l | 66732.26 |
| Cr | 52 | 72 | 1 | NO GAS | 49.898 | ug/l | 615988.95 |
| Cr | 52 | 72 | 3 | He | 52.533 | ug/l | 94710.51 |
| Cr | 53 | 72 | 1 | NO GAS | 55.182 | ug/l | 136808.95 |
| Mn | 55 | 72 | 1 | NO GAS | 50.361 | ug/l | 905788.77 |
| Mn | 55 | 72 | 3 | He | 49.974 | ug/l | 43731.49 |
| Fe | 56 | 72 | 2 | H2 | 1295.675 | ug/l | 1341618.29 |
| Fe | 56 | 72 | 3 | He | 1247.214 | ug/l | 2027859.86 |
| Co | 59 | 72 | 1 | NO GAS | 49.832 | ug/l | 809480.12 |
| Ni | 60 | 72 | 1 | NO GAS | 52.385 | ug/l | 188143.20 |
| Ni | 60 | 72 | 3 | He | 51.589 | ug/l | 58884.22 |
| Ni | 62 | 72 | 1 | NO GAS | 51.199 | ug/l | 29247.80 |
| Cu | 63 | 72 | 1 | NO GAS | 51.974 | ug/l | 468552.42 |
| Cu | 63 | 72 | 3 | He | 51.584 | ug/l | 176174.24 |
| Cu | 65 | 72 | 1 | NO GAS | 52.530 | ug/l | 234384.12 |
| Zn | 66 | 72 | 1 | NO GAS | 51.820 | ug/l | 154275.21 |
| Zn | 66 | 72 | 3 | He | 50.820 | ug/l | 25615.20 |
| As | 75 | 72 | 1 | NO GAS | 49.533 | ug/l | 166908.86 |
| As | 75 | 72 | 3 | He | 50.945 | ug/l | 16552.89 |
| Se | 78 | 72 | 2 | H2 | 49.190 | ug/l | 5617.84 |
| Br | 79 | 72 | 1 | NO GAS | -2.127 | ug/l | 50653.79 |
| Br | 79 | 72 | 2 | H2 | -0.400 | ug/l | 7863.00 |
| Se | 82 | 72 | 1 | NO GAS | 51.162 | ug/l | 14504.01 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 16772.09 |
| Sr | 88 | 72 | 1 | NO GAS | 51.211 | ug/l | 1832831.78 |
| Sr | 88 | 72 | 3 | He | 50.017 | ug/l | 79939.88 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 53.620 | ug/l | 434129.18 |
| Mo | 95 | 72 | 3 | He | 53.577 | ug/l | 145826.12 |
| Mo | 98 | 72 | 1 | NO GAS | 52.912 | ug/l | 731167.46 |
| Ag | 107 | 72 | 1 | NO GAS | 20.961 | ug/l | 482231.91 |
| Ag | 109 | 72 | 1 | NO GAS | 20.528 | ug/l | 462806.78 |
| Cd | 111 | 159 | 1 | NO GAS | 49.219 | ug/l | 275924.77 |
| Cd | 111 | 159 | 3 | He | 48.965 | ug/l | 70183.87 |
| Cd | 114 | 159 | 1 | NO GAS | 51.653 | ug/l | 655258.52 |
| Cd | 114 | 159 | 3 | He | 50.339 | ug/l | 183191.55 |
| Sn | 118 | 159 | 1 | NO GAS | 52.775 | ug/l | 873230.90 |
| Sn | 118 | 159 | 3 | He | 50.545 | ug/l | 133255.16 |
| Sb | 121 | 159 | 1 | NO GAS | 53.727 | ug/l | 1231731.94 |
| Sb | 121 | 159 | 3 | He | 51.194 | ug/l | 172867.78 |
| Sb | 123 | 159 | 1 | NO GAS | 52.107 | ug/l | 950611.90 |
| Sb | 123 | 159 | 3 | He | 51.550 | ug/l | 144121.26 |
| Ba | 135 | 159 | 1 | NO GAS | 49.371 | ug/l | 245443.59 |
| Ba | 137 | 159 | 1 | NO GAS | 51.428 | ug/l | 438046.21 |
| La | 139 | 175 | 1 | NO GAS | 48.379 | ug/l | 3857660.68 |
| La | 139 | 175 | 3 | He | 50.709 | ug/l | 865345.30 |
| Ce | 140 | 175 | 1 | NO GAS | 48.457 | ug/l | 3786715.85 |
| Ce | 140 | 175 | 3 | He | 51.566 | ug/l | 1112279.01 |
| Hg | 201 | 175 | 1 | NO GAS | 0.981 | ug/l | 4093.41 |
| Hg | 202 | 175 | 1 | NO GAS | 0.954 | ug/l | 9276.32 |
| Hg | 202 | 175 | 3 | He | 1.020 | ug/l | 6781.84 |
| Tl | 203 | 175 | 3 | He | 51.477 | ug/l | 694835.65 |
| Tl | 205 | 175 | 1 | NO GAS | 47.427 | ug/l | 3026049.85 |
| Tl | 205 | 175 | 3 | He | 52.441 | ug/l | 1682698.15 |
| [Pb] | 206 | 175 | 1 | NO GAS | 49.139 | ug/l | 1070782.72 |
| [Pb] | 207 | 175 | 1 | NO GAS | 49.708 | ug/l | 929686.27 |
| Pb | 208 | 175 | 1 | NO GAS | 49.789 | ug/l | 4282216.68 |
| Th | 232 | 175 | 3 | He | 51.291 | ug/l | 2476820.43 |
| U | 238 | 175 | 1 | NO GAS | 49.034 | ug/l | 4870650.46 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1962943.03 | 108.5 |
| Sc | 45 | 2 | H2 | 85104.77 | 103.4 |
| Sc | 45 | 3 | He | 52878.73 | 106.0 |
| Ge | 72 | 1 | NO GAS | 874036.05 | 105.5 |
| Ge | 72 | 2 | H2 | 120111.76 | 102.5 |
| Ge | 72 | 3 | He | 78697.41 | 101.7 |
| Tb | 159 | 1 | NO GAS | 17963949.98 | 105.2 |
| Tb | 159 | 3 | He | 6841087.25 | 97.5 |
| Ho | 165 | 1 | NO GAS | 17221948.94 | 106.2 |
| Ho | 165 | 3 | He | 6524296.05 | 96.9 |
| Lu | 175 | 1 | NO GAS | 19133368.11 | 108.6 |
| Lu | 175 | 3 | He | 4125183.16 | 96.3 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 019BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 20:03:48
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 1.784 | ug/l | 2728.35 |
| Be | 9 | 45 | 1 | NO GAS | 0.012 | ug/l | 9.00 |
| B | 11 | 45 | 1 | NO GAS | 0.782 | ug/l | 299.28 |
| Na | 23 | 45 | 3 | He | 8.310 | ug/l | 9007.95 |
| Mg | 24 | 45 | 3 | He | 0.481 | ug/l | 66.53 |
| Al | 27 | 45 | 1 | NO GAS | -0.332 | ug/l | 1054.48 |
| Si | 28 | 45 | 2 | H2 | -0.511 | ug/l | 20.00 |
| K | 39 | 72 | 3 | He | 5.133 | ug/l | 2923.60 |
| Ca | 40 | 72 | 2 | H2 | 1.052 | ug/l | 744.65 |
| Ti | 47 | 72 | 1 | NO GAS | -0.007 | ug/l | 18.32 |
| V | 51 | 72 | 1 | NO GAS | -0.175 | ug/l | -8440.78 |
| V | 51 | 72 | 3 | He | 0.009 | ug/l | 132.22 |
| Cr | 52 | 72 | 1 | NO GAS | -0.078 | ug/l | 9657.05 |
| Cr | 52 | 72 | 3 | He | -0.129 | ug/l | 189.63 |
| Cr | 53 | 72 | 1 | NO GAS | 3.626 | ug/l | 50423.52 |
| Mn | 55 | 72 | 1 | NO GAS | 0.011 | ug/l | 898.25 |
| Mn | 55 | 72 | 3 | He | 0.005 | ug/l | 10.67 |
| Fe | 56 | 72 | 2 | H2 | -0.178 | ug/l | 752.98 |
| Fe | 56 | 72 | 3 | He | -0.161 | ug/l | 1237.78 |
| Co | 59 | 72 | 1 | NO GAS | 0.009 | ug/l | 202.94 |
| Ni | 60 | 72 | 1 | NO GAS | 0.006 | ug/l | 83.17 |
| Ni | 60 | 72 | 3 | He | -0.013 | ug/l | 32.22 |
| Ni | 62 | 72 | 1 | NO GAS | -0.113 | ug/l | 339.33 |
| Cu | 63 | 72 | 1 | NO GAS | 0.018 | ug/l | 364.60 |
| Cu | 63 | 72 | 3 | He | 0.018 | ug/l | 136.31 |
| Cu | 65 | 72 | 1 | NO GAS | 0.012 | ug/l | 152.64 |
| Zn | 66 | 72 | 1 | NO GAS | -0.275 | ug/l | 412.47 |
| Zn | 66 | 72 | 3 | He | -0.337 | ug/l | 110.00 |
| As | 75 | 72 | 1 | NO GAS | -0.192 | ug/l | 2311.24 |
| As | 75 | 72 | 3 | He | 0.019 | ug/l | 10.33 |
| Se | 78 | 72 | 2 | H2 | 0.025 | ug/l | 3.67 |
| Br | 79 | 72 | 1 | NO GAS | -0.712 | ug/l | 58093.80 |
| Br | 79 | 72 | 2 | H2 | 0.146 | ug/l | 8628.55 |
| Se | 82 | 72 | 1 | NO GAS | -0.559 | ug/l | 264.82 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 5826.20 |
| Sr | 88 | 72 | 1 | NO GAS | 0.006 | ug/l | 522.31 |
| Sr | 88 | 72 | 3 | He | 0.032 | ug/l | 275.56 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.014 | ug/l | 232.22 |
| Mo | 95 | 72 | 3 | He | 0.019 | ug/l | 78.89 |
| Mo | 98 | 72 | 1 | NO GAS | 0.014 | ug/l | 359.39 |
| Ag | 107 | 72 | 1 | NO GAS | 0.008 | ug/l | 2049.73 |
| Ag | 109 | 72 | 1 | NO GAS | 0.015 | ug/l | 1951.07 |
| Cd | 111 | 159 | 1 | NO GAS | 0.003 | ug/l | 28.33 |
| Cd | 111 | 159 | 3 | He | 0.001 | ug/l | 2.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.018 | ug/l | -11.84 |
| Cd | 114 | 159 | 3 | He | 0.018 | ug/l | 12.33 |
| Sn | 118 | 159 | 1 | NO GAS | -2.689 | ug/l | 2395.45 |
| Sn | 118 | 159 | 3 | He | -2.466 | ug/l | 432.23 |
| Sb | 121 | 159 | 1 | NO GAS | 0.011 | ug/l | 492.23 |
| Sb | 121 | 159 | 3 | He | 0.013 | ug/l | 78.89 |
| Sb | 123 | 159 | 1 | NO GAS | 0.013 | ug/l | 418.90 |
| Sb | 123 | 159 | 3 | He | 0.015 | ug/l | 68.89 |
| Ba | 135 | 159 | 1 | NO GAS | 0.000 | ug/l | 63.21 |
| Ba | 137 | 159 | 1 | NO GAS | 0.009 | ug/l | 136.40 |
| La | 139 | 175 | 1 | NO GAS | 0.002 | ug/l | 196.87 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 23.36 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 236.91 |
| Ce | 140 | 175 | 3 | He | 0.003 | ug/l | 76.74 |
| Hg | 201 | 175 | 1 | NO GAS | 0.005 | ug/l | 38.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.006 | ug/l | 117.31 |
| Hg | 202 | 175 | 3 | He | 0.005 | ug/l | 62.66 |
| Tl | 203 | 175 | 3 | He | 0.093 | ug/l | 1275.14 |
| Tl | 205 | 175 | 1 | NO GAS | 0.088 | ug/l | 5602.21 |
| Tl | 205 | 175 | 3 | He | 0.094 | ug/l | 3089.05 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.006 | ug/l | 186.67 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.008 | ug/l | 177.78 |
| Pb | 208 | 175 | 1 | NO GAS | 0.007 | ug/l | 794.46 |
| Th | 232 | 175 | 3 | He | 0.086 | ug/l | 4702.49 |
| U | 238 | 175 | 1 | NO GAS | 0.012 | ug/l | 1224.47 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1918625.79 | 106.0 |
| Sc | 45 | 2 | H2 | 88156.88 | 107.1 |
| Sc | 45 | 3 | He | 51819.66 | 103.9 |
| Ge | 72 | 1 | NO GAS | 838096.52 | 101.2 |
| Ge | 72 | 2 | H2 | 123707.65 | 105.6 |
| Ge | 72 | 3 | He | 77048.03 | 99.6 |
| Tb | 159 | 1 | NO GAS | 17770549.09 | 104.1 |
| Tb | 159 | 3 | He | 6923291.33 | 98.6 |
| Ho | 165 | 1 | NO GAS | 16531901.11 | 102.0 |
| Ho | 165 | 3 | He | 6634960.15 | 98.5 |
| Lu | 175 | 1 | NO GAS | 18559410.84 | 105.4 |
| Lu | 175 | 3 | He | 4183380.73 | 97.7 |

ICPMS206-B Analytical Data

Sample Name 10 PPB STD
File Name 020CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 20:09:33
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 120.600 | ug/l | 71075.39 |
| Be | 9 | 45 | 1 | NO GAS | 10.988 | ug/l | 3042.33 |
| B | 11 | 45 | 1 | NO GAS | 11.659 | ug/l | 2542.36 |
| Na | 23 | 45 | 3 | He | 2828.432 | ug/l | 251976.02 |
| Mg | 24 | 45 | 3 | He | 2857.713 | ug/l | 124990.95 |
| Al | 27 | 45 | 1 | NO GAS | 10.159 | ug/l | 32881.66 |
| Si | 28 | 45 | 2 | H2 | 50.020 | ug/l | 863.85 |
| K | 39 | 72 | 3 | He | 2781.899 | ug/l | 114997.75 |
| Ca | 40 | 72 | 2 | H2 | 3124.234 | ug/l | 506503.01 |
| Ti | 47 | 72 | 1 | NO GAS | 10.276 | ug/l | 9117.98 |
| V | 51 | 72 | 1 | NO GAS | 10.104 | ug/l | 127525.13 |
| V | 51 | 72 | 3 | He | 10.838 | ug/l | 14435.20 |
| Cr | 52 | 72 | 1 | NO GAS | 10.689 | ug/l | 138998.36 |
| Cr | 52 | 72 | 3 | He | 11.016 | ug/l | 20232.18 |
| Cr | 53 | 72 | 1 | NO GAS | 15.159 | ug/l | 70086.48 |
| Mn | 55 | 72 | 1 | NO GAS | 11.587 | ug/l | 206412.61 |
| Mn | 55 | 72 | 3 | He | 10.985 | ug/l | 9631.37 |
| Fe | 56 | 72 | 2 | H2 | 334.771 | ug/l | 302676.19 |
| Fe | 56 | 72 | 3 | He | 283.859 | ug/l | 463275.47 |
| Co | 59 | 72 | 1 | NO GAS | 11.429 | ug/l | 183329.92 |
| Ni | 60 | 72 | 1 | NO GAS | 11.382 | ug/l | 40458.69 |
| Ni | 60 | 72 | 3 | He | 11.678 | ug/l | 13385.44 |
| Ni | 62 | 72 | 1 | NO GAS | 11.685 | ug/l | 6911.11 |
| Cu | 63 | 72 | 1 | NO GAS | 12.124 | ug/l | 108054.93 |
| Cu | 63 | 72 | 3 | He | 11.582 | ug/l | 39685.24 |
| Cu | 65 | 72 | 1 | NO GAS | 12.090 | ug/l | 53400.64 |
| Zn | 66 | 72 | 1 | NO GAS | 11.348 | ug/l | 34248.94 |
| Zn | 66 | 72 | 3 | He | 10.648 | ug/l | 5594.31 |
| As | 75 | 72 | 1 | NO GAS | 11.033 | ug/l | 38928.17 |
| As | 75 | 72 | 3 | He | 10.621 | ug/l | 3457.68 |
| Se | 78 | 72 | 2 | H2 | 12.124 | ug/l | 1207.14 |
| Br | 79 | 72 | 1 | NO GAS | 0.475 | ug/l | 66678.08 |
| Br | 79 | 72 | 2 | H2 | 2.830 | ug/l | 9520.70 |
| Se | 82 | 72 | 1 | NO GAS | 10.911 | ug/l | 3385.19 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 9044.63 |
| Sr | 88 | 72 | 1 | NO GAS | 11.899 | ug/l | 420894.85 |
| Sr | 88 | 72 | 3 | He | 11.265 | ug/l | 18213.51 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 11.335 | ug/l | 90827.80 |
| Mo | 95 | 72 | 3 | He | 11.178 | ug/l | 30484.99 |
| Mo | 98 | 72 | 1 | NO GAS | 11.653 | ug/l | 159286.61 |
| Ag | 107 | 72 | 1 | NO GAS | 4.728 | ug/l | 109046.10 |
| Ag | 109 | 72 | 1 | NO GAS | 4.645 | ug/l | 104778.25 |
| Cd | 111 | 159 | 1 | NO GAS | 10.512 | ug/l | 62346.58 |
| Cd | 111 | 159 | 3 | He | 11.089 | ug/l | 15692.48 |
| Cd | 114 | 159 | 1 | NO GAS | 10.478 | ug/l | 140466.50 |
| Cd | 114 | 159 | 3 | He | 11.227 | ug/l | 40305.63 |
| Sn | 118 | 159 | 1 | NO GAS | 8.512 | ug/l | 188195.87 |
| Sn | 118 | 159 | 3 | He | 9.140 | ug/l | 29091.88 |
| Sb | 121 | 159 | 1 | NO GAS | 10.514 | ug/l | 255614.55 |
| Sb | 121 | 159 | 3 | He | 10.804 | ug/l | 36040.38 |
| Sb | 123 | 159 | 1 | NO GAS | 10.472 | ug/l | 201958.93 |
| Sb | 123 | 159 | 3 | He | 10.821 | ug/l | 29871.17 |
| Ba | 135 | 159 | 1 | NO GAS | 10.480 | ug/l | 55139.75 |
| Ba | 137 | 159 | 1 | NO GAS | 10.465 | ug/l | 94248.17 |
| La | 139 | 175 | 1 | NO GAS | 10.844 | ug/l | 873026.51 |
| La | 139 | 175 | 3 | He | 11.495 | ug/l | 197531.22 |
| Ce | 140 | 175 | 1 | NO GAS | 11.302 | ug/l | 895585.39 |
| Ce | 140 | 175 | 3 | He | 11.658 | ug/l | 253468.24 |
| Hg | 201 | 175 | 1 | NO GAS | 0.215 | ug/l | 923.85 |
| Hg | 202 | 175 | 1 | NO GAS | 0.209 | ug/l | 2108.73 |
| Hg | 202 | 175 | 3 | He | 0.230 | ug/l | 1565.11 |
| Tl | 203 | 175 | 3 | He | 11.675 | ug/l | 158797.98 |
| Tl | 205 | 175 | 1 | NO GAS | 11.076 | ug/l | 715333.18 |
| Tl | 205 | 175 | 3 | He | 11.869 | ug/l | 383959.46 |
| [Pb] | 206 | 175 | 1 | NO GAS | 11.092 | ug/l | 245198.97 |
| [Pb] | 207 | 175 | 1 | NO GAS | 10.909 | ug/l | 206557.02 |
| Pb | 208 | 175 | 1 | NO GAS | 11.170 | ug/l | 972187.62 |
| Th | 232 | 175 | 3 | He | 11.045 | ug/l | 537605.85 |
| U | 238 | 175 | 1 | NO GAS | 10.946 | ug/l | 1096074.25 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1898811.96 | 104.9 |
| Sc | 45 | 2 | H2 | 70939.94 | 86.2 |
| Sc | 45 | 3 | He | 50515.29 | 101.3 |
| Ge | 72 | 1 | NO GAS | 852556.19 | 102.9 |
| Ge | 72 | 2 | H2 | 105282.27 | 89.8 |
| Ge | 72 | 3 | He | 78747.39 | 101.8 |
| Tb | 159 | 1 | NO GAS | 18662616.12 | 109.3 |
| Tb | 159 | 3 | He | 6746220.67 | 96.1 |
| Ho | 165 | 1 | NO GAS | 17239422.77 | 106.4 |
| Ho | 165 | 3 | He | 6621925.97 | 98.3 |
| Lu | 175 | 1 | NO GAS | 18902302.68 | 107.3 |
| Lu | 175 | 3 | He | 4152479.89 | 97.0 |

ICPMS206-B Analytical Data

Sample Name QCS
File Name 021_QCS.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 20:15:24
Sample Type QCS
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 42.392 | ug/l | 26101.52 |
| Be | 9 | 45 | 1 | NO GAS | 24.815 | ug/l | 6367.22 |
| B | 11 | 45 | 1 | NO GAS | 52.423 | ug/l | 10176.30 |
| Na | 23 | 45 | 3 | He | 2493.114 | ug/l | 219879.55 |
| Mg | 24 | 45 | 3 | He | 2482.488 | ug/l | 107121.89 |
| Al | 27 | 45 | 1 | NO GAS | 252.852 | ug/l | 714386.95 |
| Si | 28 | 45 | 2 | H2 | 461.328 | ug/l | 8877.90 |
| K | 39 | 72 | 3 | He | 2437.855 | ug/l | 97756.84 |
| Ca | 40 | 72 | 2 | H2 | 2585.630 | ug/l | 462949.29 |
| Ti | 47 | 72 | 1 | NO GAS | 44.901 | ug/l | 39329.73 |
| V | 51 | 72 | 1 | NO GAS | 47.509 | ug/l | 615193.23 |
| V | 51 | 72 | 3 | He | 49.634 | ug/l | 63468.72 |
| Cr | 52 | 72 | 1 | NO GAS | 49.387 | ug/l | 595301.04 |
| Cr | 52 | 72 | 3 | He | 49.724 | ug/l | 86801.12 |
| Cr | 53 | 72 | 1 | NO GAS | 48.978 | ug/l | 123710.31 |
| Mn | 55 | 72 | 1 | NO GAS | 251.103 | ug/l | 4407321.77 |
| Mn | 55 | 72 | 3 | He | 245.287 | ug/l | 207763.55 |
| Fe | 56 | 72 | 2 | H2 | 265.044 | ug/l | 264143.20 |
| Fe | 56 | 72 | 3 | He | 241.036 | ug/l | 380322.29 |
| Co | 59 | 72 | 1 | NO GAS | 49.426 | ug/l | 783277.38 |
| Ni | 60 | 72 | 1 | NO GAS | 51.828 | ug/l | 181724.22 |
| Ni | 60 | 72 | 3 | He | 50.732 | ug/l | 56086.79 |
| Ni | 62 | 72 | 1 | NO GAS | 49.527 | ug/l | 27641.75 |
| Cu | 63 | 72 | 1 | NO GAS | 51.886 | ug/l | 456291.34 |
| Cu | 63 | 72 | 3 | He | 51.974 | ug/l | 171926.69 |
| Cu | 65 | 72 | 1 | NO GAS | 52.396 | ug/l | 228298.68 |
| Zn | 66 | 72 | 1 | NO GAS | 52.038 | ug/l | 150975.11 |
| Zn | 66 | 72 | 3 | He | 52.554 | ug/l | 25625.26 |
| As | 75 | 72 | 1 | NO GAS | 49.363 | ug/l | 161913.54 |
| As | 75 | 72 | 3 | He | 48.703 | ug/l | 15311.95 |
| Se | 78 | 72 | 2 | H2 | 49.127 | ug/l | 5394.14 |
| Br | 79 | 72 | 1 | NO GAS | 1.227 | ug/l | 70719.99 |
| Br | 79 | 72 | 2 | H2 | 1.728 | ug/l | 9460.69 |
| Se | 82 | 72 | 1 | NO GAS | 52.727 | ug/l | 14539.17 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 17098.39 |
| Sr | 88 | 72 | 1 | NO GAS | 51.925 | ug/l | 1813731.96 |
| Sr | 88 | 72 | 3 | He | 51.112 | ug/l | 79108.92 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 50.074 | ug/l | 395875.14 |
| Mo | 95 | 72 | 3 | He | 50.487 | ug/l | 133042.93 |
| Mo | 98 | 72 | 1 | NO GAS | 49.339 | ug/l | 666269.94 |
| Ag | 107 | 72 | 1 | NO GAS | 26.670 | ug/l | 599167.35 |
| Ag | 109 | 72 | 1 | NO GAS | 26.446 | ug/l | 581747.70 |
| Cd | 111 | 159 | 1 | NO GAS | 24.339 | ug/l | 143160.71 |
| Cd | 111 | 159 | 3 | He | 24.256 | ug/l | 34573.87 |
| Cd | 114 | 159 | 1 | NO GAS | 24.592 | ug/l | 327680.81 |
| Cd | 114 | 159 | 3 | He | 24.941 | ug/l | 90229.27 |
| Sn | 118 | 159 | 1 | NO GAS | 46.552 | ug/l | 812594.24 |
| Sn | 118 | 159 | 3 | He | 47.120 | ug/l | 123737.39 |
| Sb | 121 | 159 | 1 | NO GAS | 45.842 | ug/l | 1104345.87 |
| Sb | 121 | 159 | 3 | He | 46.342 | ug/l | 155488.77 |
| Sb | 123 | 159 | 1 | NO GAS | 44.778 | ug/l | 856209.17 |
| Sb | 123 | 159 | 3 | He | 47.545 | ug/l | 132152.61 |
| Ba | 135 | 159 | 1 | NO GAS | 46.114 | ug/l | 240369.01 |
| Ba | 137 | 159 | 1 | NO GAS | 47.657 | ug/l | 425634.30 |
| La | 139 | 175 | 1 | NO GAS | 48.964 | ug/l | 3931430.85 |
| La | 139 | 175 | 3 | He | 51.315 | ug/l | 862864.44 |
| Ce | 140 | 175 | 1 | NO GAS | 49.985 | ug/l | 3950405.11 |
| Ce | 140 | 175 | 3 | He | 52.509 | ug/l | 1116139.33 |
| Hg | 201 | 175 | 1 | NO GAS | 0.952 | ug/l | 4019.07 |
| Hg | 202 | 175 | 1 | NO GAS | 0.949 | ug/l | 9305.99 |
| Hg | 202 | 175 | 3 | He | 1.009 | ug/l | 6612.80 |
| Tl | 203 | 175 | 3 | He | 52.082 | ug/l | 692810.64 |
| Tl | 205 | 175 | 1 | NO GAS | 49.981 | ug/l | 3220611.20 |
| Tl | 205 | 175 | 3 | He | 53.587 | ug/l | 1694368.01 |
| [Pb] | 206 | 175 | 1 | NO GAS | 49.309 | ug/l | 1087184.31 |
| [Pb] | 207 | 175 | 1 | NO GAS | 50.363 | ug/l | 951011.22 |
| Pb | 208 | 175 | 1 | NO GAS | 49.968 | ug/l | 4337469.32 |
| Th | 232 | 175 | 3 | He | 52.050 | ug/l | 2475423.00 |
| U | 238 | 175 | 1 | NO GAS | 50.906 | ug/l | 5084232.28 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1764413.54 | 97.5 |
| Sc | 45 | 2 | H2 | 80536.54 | 97.9 |
| Sc | 45 | 3 | He | 49818.83 | 99.9 |
| Ge | 72 | 1 | NO GAS | 842015.11 | 101.6 |
| Ge | 72 | 2 | H2 | 115226.65 | 98.3 |
| Ge | 72 | 3 | He | 76124.86 | 98.4 |
| Tb | 159 | 1 | NO GAS | 18515138.44 | 108.5 |
| Tb | 159 | 3 | He | 6796154.09 | 96.8 |
| Ho | 165 | 1 | NO GAS | 17194113.71 | 106.1 |
| Ho | 165 | 3 | He | 6679617.09 | 99.2 |
| Lu | 175 | 1 | NO GAS | 18863066.78 | 107.1 |
| Lu | 175 | 3 | He | 4061689.93 | 94.8 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 022_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 20:21:07
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 571.526 | ug/l | 344467.84 |
| Be | 9 | 45 | 1 | NO GAS | 50.317 | ug/l | 15478.71 |
| B | 11 | 45 | 1 | NO GAS | 52.941 | ug/l | 12313.26 |
| Na | 23 | 45 | 3 | He | 12892.051 | ug/l | 1255500.27 |
| Mg | 24 | 45 | 3 | He | 12742.335 | ug/l | 624648.36 |
| Al | 27 | 45 | 1 | NO GAS | 49.341 | ug/l | 168562.76 |
| Si | 28 | 45 | 2 | H2 | 207.950 | ug/l | 4759.73 |
| K | 39 | 72 | 3 | He | 12960.368 | ug/l | 554569.05 |
| Ca | 40 | 72 | 2 | H2 | 13947.444 | ug/l | 2798327.72 |
| Ti | 47 | 72 | 1 | NO GAS | 52.334 | ug/l | 49809.82 |
| V | 51 | 72 | 1 | NO GAS | 50.187 | ug/l | 708353.75 |
| V | 51 | 72 | 3 | He | 51.130 | ug/l | 71342.40 |
| Cr | 52 | 72 | 1 | NO GAS | 51.221 | ug/l | 671930.83 |
| Cr | 52 | 72 | 3 | He | 51.572 | ug/l | 98256.45 |
| Cr | 53 | 72 | 1 | NO GAS | 57.368 | ug/l | 149240.27 |
| Mn | 55 | 72 | 1 | NO GAS | 52.080 | ug/l | 994518.54 |
| Mn | 55 | 72 | 3 | He | 50.461 | ug/l | 46650.76 |
| Fe | 56 | 72 | 2 | H2 | 1290.262 | ug/l | 1438555.52 |
| Fe | 56 | 72 | 3 | He | 1275.201 | ug/l | 2189523.06 |
| Co | 59 | 72 | 1 | NO GAS | 52.569 | ug/l | 905198.05 |
| Ni | 60 | 72 | 1 | NO GAS | 53.497 | ug/l | 203889.51 |
| Ni | 60 | 72 | 3 | He | 51.606 | ug/l | 62271.19 |
| Ni | 62 | 72 | 1 | NO GAS | 50.756 | ug/l | 30827.40 |
| Cu | 63 | 72 | 1 | NO GAS | 53.495 | ug/l | 511500.46 |
| Cu | 63 | 72 | 3 | He | 51.664 | ug/l | 186507.78 |
| Cu | 65 | 72 | 1 | NO GAS | 53.491 | ug/l | 253506.08 |
| Zn | 66 | 72 | 1 | NO GAS | 52.292 | ug/l | 165069.55 |
| Zn | 66 | 72 | 3 | He | 50.474 | ug/l | 26874.88 |
| As | 75 | 72 | 1 | NO GAS | 49.894 | ug/l | 177841.26 |
| As | 75 | 72 | 3 | He | 50.317 | ug/l | 17266.44 |
| Se | 78 | 72 | 2 | H2 | 49.168 | ug/l | 6055.57 |
| Br | 79 | 72 | 1 | NO GAS | -2.164 | ug/l | 53403.43 |
| Br | 79 | 72 | 2 | H2 | -1.387 | ug/l | 7463.63 |
| Se | 82 | 72 | 1 | NO GAS | 51.645 | ug/l | 15518.92 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 18323.91 |
| Sr | 88 | 72 | 1 | NO GAS | 51.718 | ug/l | 1966166.30 |
| Sr | 88 | 72 | 3 | He | 50.876 | ug/l | 85933.52 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 53.282 | ug/l | 458431.62 |
| Mo | 95 | 72 | 3 | He | 53.593 | ug/l | 154146.98 |
| Mo | 98 | 72 | 1 | NO GAS | 53.095 | ug/l | 780244.30 |
| Ag | 107 | 72 | 1 | NO GAS | 20.904 | ug/l | 511871.06 |
| Ag | 109 | 72 | 1 | NO GAS | 20.907 | ug/l | 500739.37 |
| Cd | 111 | 159 | 1 | NO GAS | 50.539 | ug/l | 307120.88 |
| Cd | 111 | 159 | 3 | He | 48.921 | ug/l | 74665.05 |
| Cd | 114 | 159 | 1 | NO GAS | 50.897 | ug/l | 700649.15 |
| Cd | 114 | 159 | 3 | He | 49.421 | ug/l | 191556.96 |
| Sn | 118 | 159 | 1 | NO GAS | 52.072 | ug/l | 933999.18 |
| Sn | 118 | 159 | 3 | He | 50.018 | ug/l | 140284.34 |
| Sb | 121 | 159 | 1 | NO GAS | 52.375 | ug/l | 1302985.59 |
| Sb | 121 | 159 | 3 | He | 50.692 | ug/l | 182219.26 |
| Sb | 123 | 159 | 1 | NO GAS | 52.133 | ug/l | 1029094.93 |
| Sb | 123 | 159 | 3 | He | 50.269 | ug/l | 149668.59 |
| Ba | 135 | 159 | 1 | NO GAS | 50.017 | ug/l | 269312.57 |
| Ba | 137 | 159 | 1 | NO GAS | 50.080 | ug/l | 461005.06 |
| La | 139 | 175 | 1 | NO GAS | 49.448 | ug/l | 4140064.87 |
| La | 139 | 175 | 3 | He | 49.954 | ug/l | 917257.41 |
| Ce | 140 | 175 | 1 | NO GAS | 51.524 | ug/l | 4249099.63 |
| Ce | 140 | 175 | 3 | He | 50.939 | ug/l | 1182203.93 |
| Hg | 201 | 175 | 1 | NO GAS | 0.982 | ug/l | 4319.76 |
| Hg | 202 | 175 | 1 | NO GAS | 0.977 | ug/l | 9983.95 |
| Hg | 202 | 175 | 3 | He | 0.980 | ug/l | 7011.22 |
| Tl | 203 | 175 | 3 | He | 50.626 | ug/l | 735358.48 |
| Tl | 205 | 175 | 1 | NO GAS | 48.136 | ug/l | 3237878.04 |
| Tl | 205 | 175 | 3 | He | 51.709 | ug/l | 1785817.40 |
| [Pb] | 206 | 175 | 1 | NO GAS | 49.617 | ug/l | 1143009.41 |
| [Pb] | 207 | 175 | 1 | NO GAS | 50.256 | ug/l | 990629.06 |
| Pb | 208 | 175 | 1 | NO GAS | 50.296 | ug/l | 4556686.10 |
| Th | 232 | 175 | 3 | He | 51.659 | ug/l | 2682925.74 |
| U | 238 | 175 | 1 | NO GAS | 49.567 | ug/l | 5168540.75 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2113990.48 | 116.8 |
| Sc | 45 | 2 | H2 | 95508.10 | 116.1 |
| Sc | 45 | 3 | He | 56636.20 | 113.6 |
| Ge | 72 | 1 | NO GAS | 919172.85 | 110.9 |
| Ge | 72 | 2 | H2 | 129234.81 | 110.3 |
| Ge | 72 | 3 | He | 83077.74 | 107.4 |
| Tb | 159 | 1 | NO GAS | 19331595.49 | 113.3 |
| Tb | 159 | 3 | He | 7283276.87 | 103.8 |
| Ho | 165 | 1 | NO GAS | 18121253.22 | 111.8 |
| Ho | 165 | 3 | He | 7051506.78 | 104.7 |
| Lu | 175 | 1 | NO GAS | 19857092.85 | 112.7 |
| Lu | 175 | 3 | He | 4433151.95 | 103.5 |

ICPMS206-B Analytical Data

Sample Name CCB
File Name 023_CCB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 20:26:51
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.829 | ug/l | 2634.35 |
| Be | 9 | 45 | 1 | NO GAS | -0.003 | ug/l | 6.00 |
| B | 11 | 45 | 1 | NO GAS | 0.622 | ug/l | 324.61 |
| Na | 23 | 45 | 3 | He | -12.515 | ug/l | 8114.17 |
| Mg | 24 | 45 | 3 | He | -0.744 | ug/l | 13.31 |
| Al | 27 | 45 | 1 | NO GAS | -0.462 | ug/l | 800.02 |
| Si | 28 | 45 | 2 | H2 | -0.643 | ug/l | 20.00 |
| K | 39 | 72 | 3 | He | -7.135 | ug/l | 2795.81 |
| Ca | 40 | 72 | 2 | H2 | 0.358 | ug/l | 694.68 |
| Ti | 47 | 72 | 1 | NO GAS | 0.038 | ug/l | 71.63 |
| V | 51 | 72 | 1 | NO GAS | -0.473 | ug/l | -15320.27 |
| V | 51 | 72 | 3 | He | 0.003 | ug/l | 143.34 |
| Cr | 52 | 72 | 1 | NO GAS | -0.097 | ug/l | 11584.40 |
| Cr | 52 | 72 | 3 | He | -0.128 | ug/l | 219.57 |
| Cr | 53 | 72 | 1 | NO GAS | 4.102 | ug/l | 62918.20 |
| Mn | 55 | 72 | 1 | NO GAS | -0.004 | ug/l | 781.81 |
| Mn | 55 | 72 | 3 | He | -0.004 | ug/l | 3.00 |
| Fe | 56 | 72 | 2 | H2 | -0.520 | ug/l | 439.79 |
| Fe | 56 | 72 | 3 | He | -0.449 | ug/l | 892.92 |
| Co | 59 | 72 | 1 | NO GAS | -0.001 | ug/l | 59.88 |
| Ni | 60 | 72 | 1 | NO GAS | 0.007 | ug/l | 109.78 |
| Ni | 60 | 72 | 3 | He | -0.026 | ug/l | 20.00 |
| Ni | 62 | 72 | 1 | NO GAS | 0.057 | ug/l | 528.96 |
| Cu | 63 | 72 | 1 | NO GAS | 0.029 | ug/l | 561.23 |
| Cu | 63 | 72 | 3 | He | 0.037 | ug/l | 228.96 |
| Cu | 65 | 72 | 1 | NO GAS | 0.029 | ug/l | 279.28 |
| Zn | 66 | 72 | 1 | NO GAS | -0.302 | ug/l | 409.16 |
| Zn | 66 | 72 | 3 | He | -0.198 | ug/l | 203.34 |
| As | 75 | 72 | 1 | NO GAS | -0.092 | ug/l | 3220.95 |
| As | 75 | 72 | 3 | He | 0.016 | ug/l | 10.67 |
| Se | 78 | 72 | 2 | H2 | 0.047 | ug/l | 7.00 |
| Br | 79 | 72 | 1 | NO GAS | -0.792 | ug/l | 70776.68 |
| Br | 79 | 72 | 2 | H2 | 0.412 | ug/l | 10043.18 |
| Se | 82 | 72 | 1 | NO GAS | -0.689 | ug/l | 278.12 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7293.87 |
| Sr | 88 | 72 | 1 | NO GAS | 0.000 | ug/l | 399.21 |
| Sr | 88 | 72 | 3 | He | -0.011 | ug/l | 240.01 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.005 | ug/l | 193.34 |
| Mo | 95 | 72 | 3 | He | 0.010 | ug/l | 64.44 |
| Mo | 98 | 72 | 1 | NO GAS | 0.007 | ug/l | 324.18 |
| Ag | 107 | 72 | 1 | NO GAS | 0.003 | ug/l | 2382.38 |
| Ag | 109 | 72 | 1 | NO GAS | 0.011 | ug/l | 2299.72 |
| Cd | 111 | 159 | 1 | NO GAS | -0.011 | ug/l | -64.78 |
| Cd | 111 | 159 | 3 | He | 0.001 | ug/l | 3.33 |
| Cd | 114 | 159 | 1 | NO GAS | -0.009 | ug/l | -437.40 |
| Cd | 114 | 159 | 3 | He | 0.006 | ug/l | -35.08 |
| Sn | 118 | 159 | 1 | NO GAS | -0.401 | ug/l | 48453.74 |
| Sn | 118 | 159 | 3 | He | -0.043 | ug/l | 7446.21 |
| Sb | 121 | 159 | 1 | NO GAS | 0.009 | ug/l | 576.68 |
| Sb | 121 | 159 | 3 | He | 0.004 | ug/l | 57.78 |
| Sb | 123 | 159 | 1 | NO GAS | 0.006 | ug/l | 371.12 |
| Sb | 123 | 159 | 3 | He | 0.017 | ug/l | 82.22 |
| Ba | 135 | 159 | 1 | NO GAS | -0.005 | ug/l | 46.57 |
| Ba | 137 | 159 | 1 | NO GAS | -0.002 | ug/l | 53.23 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 80.08 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 16.68 |
| Ce | 140 | 175 | 1 | NO GAS | 0.000 | ug/l | 73.41 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 26.69 |
| Hg | 201 | 175 | 1 | NO GAS | 0.008 | ug/l | 58.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.008 | ug/l | 164.30 |
| Hg | 202 | 175 | 3 | He | 0.006 | ug/l | 74.99 |
| Tl | 203 | 175 | 3 | He | 0.100 | ug/l | 1599.77 |
| Tl | 205 | 175 | 1 | NO GAS | 0.089 | ug/l | 6804.94 |
| Tl | 205 | 175 | 3 | He | 0.099 | ug/l | 3811.07 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.002 | ug/l | 102.22 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.002 | ug/l | 85.55 |
| Pb | 208 | 175 | 1 | NO GAS | 0.002 | ug/l | 390.00 |
| Th | 232 | 175 | 3 | He | 0.086 | ug/l | 5494.61 |
| U | 238 | 175 | 1 | NO GAS | 0.005 | ug/l | 745.54 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2346679.85 | 129.7 |
| Sc | 45 | 2 | H2 | 101933.06 | 123.9 |
| Sc | 45 | 3 | He | 58670.68 | 117.7 |
| Ge | 72 | 1 | NO GAS | 1032209.81 | 124.6 |
| Ge | 72 | 2 | H2 | 140013.06 | 119.5 |
| Ge | 72 | 3 | He | 88317.36 | 114.2 |
| Tb | 159 | 1 | NO GAS | 22429169.42 | 131.4 |
| Tb | 159 | 3 | He | 7839893.05 | 111.7 |
| Ho | 165 | 1 | NO GAS | 19916524.36 | 122.9 |
| Ho | 165 | 3 | He | 7540776.55 | 112.0 |
| Lu | 175 | 1 | NO GAS | 22422013.93 | 127.3 |
| Lu | 175 | 3 | He | 4864259.56 | 113.6 |

ICPMS206-B Analytical Data

Sample Name 0.10 PPB STD
File Name 024CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 20:32:37
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 2.033 | ug/l | 2985.01 |
| Be | 9 | 45 | 1 | NO GAS | 0.135 | ug/l | 41.99 |
| B | 11 | 45 | 1 | NO GAS | 0.531 | ug/l | 239.29 |
| Na | 23 | 45 | 3 | He | 29.227 | ug/l | 10514.35 |
| Mg | 24 | 45 | 3 | He | 28.662 | ug/l | 1287.50 |
| Al | 27 | 45 | 1 | NO GAS | -0.280 | ug/l | 1178.94 |
| Si | 28 | 45 | 2 | H2 | 0.327 | ug/l | 34.66 |
| K | 39 | 72 | 3 | He | 29.728 | ug/l | 3868.24 |
| Ca | 40 | 72 | 2 | H2 | 31.510 | ug/l | 6151.46 |
| Ti | 47 | 72 | 1 | NO GAS | 0.160 | ug/l | 164.92 |
| V | 51 | 72 | 1 | NO GAS | -0.121 | ug/l | -7831.13 |
| V | 51 | 72 | 3 | He | 0.114 | ug/l | 265.56 |
| Cr | 52 | 72 | 1 | NO GAS | 0.104 | ug/l | 11890.73 |
| Cr | 52 | 72 | 3 | He | 0.011 | ug/l | 432.49 |
| Cr | 53 | 72 | 1 | NO GAS | 3.448 | ug/l | 50554.18 |
| Mn | 55 | 72 | 1 | NO GAS | 0.134 | ug/l | 3074.21 |
| Mn | 55 | 72 | 3 | He | 0.102 | ug/l | 92.68 |
| Fe | 56 | 72 | 2 | H2 | 2.772 | ug/l | 3638.63 |
| Fe | 56 | 72 | 3 | He | 2.619 | ug/l | 5619.87 |
| Co | 59 | 72 | 1 | NO GAS | 0.111 | ug/l | 1829.82 |
| Ni | 60 | 72 | 1 | NO GAS | 0.131 | ug/l | 522.31 |
| Ni | 60 | 72 | 3 | He | 0.121 | ug/l | 180.01 |
| Ni | 62 | 72 | 1 | NO GAS | 0.179 | ug/l | 502.35 |
| Cu | 63 | 72 | 1 | NO GAS | 0.149 | ug/l | 1519.11 |
| Cu | 63 | 72 | 3 | He | 0.141 | ug/l | 543.90 |
| Cu | 65 | 72 | 1 | NO GAS | 0.148 | ug/l | 749.87 |
| Zn | 66 | 72 | 1 | NO GAS | -0.195 | ug/l | 645.31 |
| Zn | 66 | 72 | 3 | He | -0.246 | ug/l | 153.34 |
| As | 75 | 72 | 1 | NO GAS | 0.082 | ug/l | 3222.30 |
| As | 75 | 72 | 3 | He | 0.118 | ug/l | 41.66 |
| Se | 78 | 72 | 2 | H2 | 0.109 | ug/l | 12.67 |
| Br | 79 | 72 | 1 | NO GAS | 0.395 | ug/l | 65629.79 |
| Br | 79 | 72 | 2 | H2 | 1.050 | ug/l | 8871.50 |
| Se | 82 | 72 | 1 | NO GAS | -0.332 | ug/l | 326.70 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7656.66 |
| Sr | 88 | 72 | 1 | NO GAS | 0.123 | ug/l | 4628.19 |
| Sr | 88 | 72 | 3 | He | 0.137 | ug/l | 438.90 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.122 | ug/l | 1087.82 |
| Mo | 95 | 72 | 3 | He | 0.110 | ug/l | 321.12 |
| Mo | 98 | 72 | 1 | NO GAS | 0.123 | ug/l | 1837.01 |
| Ag | 107 | 72 | 1 | NO GAS | 0.051 | ug/l | 3031.03 |
| Ag | 109 | 72 | 1 | NO GAS | 0.055 | ug/l | 2840.36 |
| Cd | 111 | 159 | 1 | NO GAS | 0.102 | ug/l | 610.64 |
| Cd | 111 | 159 | 3 | He | 0.115 | ug/l | 164.64 |
| Cd | 114 | 159 | 1 | NO GAS | 0.119 | ug/l | 1339.81 |
| Cd | 114 | 159 | 3 | He | 0.134 | ug/l | 432.80 |
| Sn | 118 | 159 | 1 | NO GAS | -2.552 | ug/l | 4784.61 |
| Sn | 118 | 159 | 3 | He | -2.362 | ug/l | 683.35 |
| Sb | 121 | 159 | 1 | NO GAS | 0.113 | ug/l | 2961.42 |
| Sb | 121 | 159 | 3 | He | 0.129 | ug/l | 467.79 |
| Sb | 123 | 159 | 1 | NO GAS | 0.107 | ug/l | 2232.39 |
| Sb | 123 | 159 | 3 | He | 0.124 | ug/l | 370.01 |
| Ba | 135 | 159 | 1 | NO GAS | 0.092 | ug/l | 538.94 |
| Ba | 137 | 159 | 1 | NO GAS | 0.117 | ug/l | 1104.53 |
| La | 139 | 175 | 1 | NO GAS | 0.120 | ug/l | 9572.71 |
| La | 139 | 175 | 3 | He | 0.111 | ug/l | 1898.73 |
| Ce | 140 | 175 | 1 | NO GAS | 0.123 | ug/l | 9642.85 |
| Ce | 140 | 175 | 3 | He | 0.121 | ug/l | 2626.27 |
| Hg | 201 | 175 | 1 | NO GAS | 0.004 | ug/l | 34.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.005 | ug/l | 115.65 |
| Hg | 202 | 175 | 3 | He | 0.007 | ug/l | 72.32 |
| Tl | 203 | 175 | 3 | He | 0.160 | ug/l | 2181.73 |
| Tl | 205 | 175 | 1 | NO GAS | 0.145 | ug/l | 9252.90 |
| Tl | 205 | 175 | 3 | He | 0.158 | ug/l | 5128.54 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.118 | ug/l | 2598.02 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.115 | ug/l | 2157.95 |
| Pb | 208 | 175 | 1 | NO GAS | 0.118 | ug/l | 10207.02 |
| Th | 232 | 175 | 3 | He | 0.137 | ug/l | 7132.98 |
| U | 238 | 175 | 1 | NO GAS | 0.116 | ug/l | 11479.49 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1860198.96 | 102.8 |
| Sc | 45 | 2 | H2 | 81202.24 | 98.7 |
| Sc | 45 | 3 | He | 50190.66 | 100.7 |
| Ge | 72 | 1 | NO GAS | 844499.83 | 101.9 |
| Ge | 72 | 2 | H2 | 115530.31 | 98.6 |
| Ge | 72 | 3 | He | 76548.37 | 99.0 |
| Tb | 159 | 1 | NO GAS | 18435820.17 | 108.0 |
| Tb | 159 | 3 | He | 6763079.61 | 96.3 |
| Ho | 165 | 1 | NO GAS | 17245720.32 | 106.4 |
| Ho | 165 | 3 | He | 6438092.50 | 95.6 |
| Lu | 175 | 1 | NO GAS | 18540965.31 | 105.3 |
| Lu | 175 | 3 | He | 4135947.68 | 96.6 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 025BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 21:19:02
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 005CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | -0.025 | ug/l | 1892.40 |
| Be | 9 | 45 | 1 | NO GAS | 0.008 | ug/l | 7.67 |
| B | 11 | 45 | 1 | NO GAS | 0.132 | ug/l | 157.97 |
| Na | 23 | 45 | 3 | He | -17.308 | ug/l | 6466.80 |
| Mg | 24 | 45 | 3 | He | -0.626 | ug/l | 16.63 |
| Al | 27 | 45 | 1 | NO GAS | -0.459 | ug/l | 638.91 |
| Si | 28 | 45 | 2 | H2 | -0.271 | ug/l | 23.99 |
| K | 39 | 72 | 3 | He | -0.314 | ug/l | 2642.45 |
| Ca | 40 | 72 | 2 | H2 | 0.424 | ug/l | 586.39 |
| Ti | 47 | 72 | 1 | NO GAS | 0.003 | ug/l | 26.65 |
| V | 51 | 72 | 1 | NO GAS | -0.135 | ug/l | -7790.97 |
| V | 51 | 72 | 3 | He | -0.012 | ug/l | 102.22 |
| Cr | 52 | 72 | 1 | NO GAS | -0.103 | ug/l | 9171.04 |
| Cr | 52 | 72 | 3 | He | -0.154 | ug/l | 143.05 |
| Cr | 53 | 72 | 1 | NO GAS | 1.106 | ug/l | 45484.35 |
| Mn | 55 | 72 | 1 | NO GAS | -0.006 | ug/l | 592.18 |
| Mn | 55 | 72 | 3 | He | -0.001 | ug/l | 4.67 |
| Fe | 56 | 72 | 2 | H2 | -0.526 | ug/l | 358.16 |
| Fe | 56 | 72 | 3 | He | -0.524 | ug/l | 643.03 |
| Co | 59 | 72 | 1 | NO GAS | -0.001 | ug/l | 46.57 |
| Ni | 60 | 72 | 1 | NO GAS | 0.550 | ug/l | 1944.03 |
| Ni | 60 | 72 | 3 | He | -0.019 | ug/l | 24.45 |
| Ni | 62 | 72 | 1 | NO GAS | -0.050 | ug/l | 365.95 |
| Cu | 63 | 72 | 1 | NO GAS | 0.020 | ug/l | 370.60 |
| Cu | 63 | 72 | 3 | He | 0.020 | ug/l | 139.30 |
| Cu | 65 | 72 | 1 | NO GAS | 0.013 | ug/l | 156.64 |
| Zn | 66 | 72 | 1 | NO GAS | -0.267 | ug/l | 425.79 |
| Zn | 66 | 72 | 3 | He | -0.436 | ug/l | 60.00 |
| As | 75 | 72 | 1 | NO GAS | 0.279 | ug/l | 3744.50 |
| As | 75 | 72 | 3 | He | 0.010 | ug/l | 7.33 |
| Se | 78 | 72 | 2 | H2 | 0.018 | ug/l | 2.67 |
| Br | 79 | 72 | 1 | NO GAS | -0.182 | ug/l | 60219.80 |
| Br | 79 | 72 | 2 | H2 | 0.740 | ug/l | 8608.57 |
| Se | 82 | 72 | 1 | NO GAS | 0.066 | ug/l | 419.20 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7223.97 |
| Sr | 88 | 72 | 1 | NO GAS | 0.000 | ug/l | 329.35 |
| Sr | 88 | 72 | 3 | He | 0.007 | ug/l | 232.22 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | -0.006 | ug/l | 71.11 |
| Mo | 95 | 72 | 3 | He | 0.002 | ug/l | 32.22 |
| Mo | 98 | 72 | 1 | NO GAS | -0.003 | ug/l | 121.95 |
| Ag | 107 | 72 | 1 | NO GAS | -0.006 | ug/l | 1707.76 |
| Ag | 109 | 72 | 1 | NO GAS | 0.003 | ug/l | 1664.43 |
| Cd | 111 | 159 | 1 | NO GAS | -0.012 | ug/l | -60.92 |
| Cd | 111 | 159 | 3 | He | -0.001 | ug/l | 0.00 |
| Cd | 114 | 159 | 1 | NO GAS | -0.011 | ug/l | -384.83 |
| Cd | 114 | 159 | 3 | He | 0.005 | ug/l | -33.63 |
| Sn | 118 | 159 | 1 | NO GAS | -0.290 | ug/l | 41874.83 |
| Sn | 118 | 159 | 3 | He | -0.094 | ug/l | 6355.74 |
| Sb | 121 | 159 | 1 | NO GAS | -0.002 | ug/l | 204.45 |
| Sb | 121 | 159 | 3 | He | -0.004 | ug/l | 23.33 |
| Sb | 123 | 159 | 1 | NO GAS | -0.002 | ug/l | 155.56 |
| Sb | 123 | 159 | 3 | He | -0.003 | ug/l | 18.89 |
| Ba | 135 | 159 | 1 | NO GAS | -0.009 | ug/l | 19.96 |
| Ba | 137 | 159 | 1 | NO GAS | -0.002 | ug/l | 39.92 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 50.05 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 10.01 |
| Ce | 140 | 175 | 1 | NO GAS | 0.071 | ug/l | 6122.92 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 23.36 |
| Hg | 201 | 175 | 1 | NO GAS | 0.000 | ug/l | 16.67 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 67.99 |
| Hg | 202 | 175 | 3 | He | 0.001 | ug/l | 32.99 |
| Tl | 203 | 175 | 3 | He | 0.004 | ug/l | 61.32 |
| Tl | 205 | 175 | 1 | NO GAS | 0.003 | ug/l | 231.12 |
| Tl | 205 | 175 | 3 | He | 0.003 | ug/l | 151.97 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.000 | ug/l | 52.22 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.000 | ug/l | 37.78 |
| Pb | 208 | 175 | 1 | NO GAS | 0.000 | ug/l | 202.22 |
| Th | 232 | 175 | 3 | He | 0.004 | ug/l | 705.21 |
| U | 238 | 175 | 1 | NO GAS | 0.000 | ug/l | 75.98 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1845092.67 | 102.0 |
| Sc | 45 | 2 | H2 | 84313.12 | 102.5 |
| Sc | 45 | 3 | He | 49716.71 | 99.7 |
| Ge | 72 | 1 | NO GAS | 821404.91 | 99.1 |
| Ge | 72 | 2 | H2 | 115864.60 | 98.9 |
| Ge | 72 | 3 | He | 75202.77 | 97.2 |
| Tb | 159 | 1 | NO GAS | 18449910.09 | 108.1 |
| Tb | 159 | 3 | He | 6824951.90 | 97.2 |
| Ho | 165 | 1 | NO GAS | 18084298.04 | 111.6 |
| Ho | 165 | 3 | He | 6550835.45 | 97.3 |
| Lu | 175 | 1 | NO GAS | 19484017.29 | 110.6 |
| Lu | 175 | 3 | He | 4153754.65 | 97.0 |

ICPMS206-B Analytical Data

Sample Name BLANK
File Name 026CALB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 21:24:49
Sample Type CalBlk
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 0.000 | ug/l | 1823.07 |
| Be | 9 | 45 | 1 | NO GAS | 0.000 | ug/l | 5.67 |
| B | 11 | 45 | 1 | NO GAS | 0.000 | ug/l | 163.30 |
| Na | 23 | 45 | 3 | He | 0.000 | ug/l | 6888.07 |
| Mg | 24 | 45 | 3 | He | 0.000 | ug/l | 13.31 |
| Al | 27 | 45 | 1 | NO GAS | 0.000 | ug/l | 636.68 |
| Si | 28 | 45 | 2 | H2 | 0.000 | ug/l | 18.67 |
| K | 39 | 72 | 3 | He | 0.000 | ug/l | 2671.34 |
| Ca | 40 | 72 | 2 | H2 | 0.000 | ug/l | 564.73 |
| Ti | 47 | 72 | 1 | NO GAS | 0.000 | ug/l | 23.32 |
| V | 51 | 72 | 1 | NO GAS | 0.000 | ug/l | -7327.59 |
| V | 51 | 72 | 3 | He | 0.000 | ug/l | 83.33 |
| Cr | 52 | 72 | 1 | NO GAS | 0.000 | ug/l | 9637.07 |
| Cr | 52 | 72 | 3 | He | 0.000 | ug/l | 136.40 |
| Cr | 53 | 72 | 1 | NO GAS | 0.000 | ug/l | 45387.42 |
| Mn | 55 | 72 | 1 | NO GAS | 0.000 | ug/l | 718.60 |
| Mn | 55 | 72 | 3 | He | 0.000 | ug/l | 5.00 |
| Fe | 56 | 72 | 2 | H2 | 0.000 | ug/l | 346.51 |
| Fe | 56 | 72 | 3 | He | 0.000 | ug/l | 586.39 |
| Co | 59 | 72 | 1 | NO GAS | 0.000 | ug/l | 69.86 |
| Ni | 60 | 72 | 1 | NO GAS | 0.000 | ug/l | 63.21 |
| Ni | 60 | 72 | 3 | He | 0.000 | ug/l | 27.78 |
| Ni | 62 | 72 | 1 | NO GAS | 0.000 | ug/l | 279.45 |
| Cu | 63 | 72 | 1 | NO GAS | 0.000 | ug/l | 469.91 |
| Cu | 63 | 72 | 3 | He | 0.000 | ug/l | 198.29 |
| Cu | 65 | 72 | 1 | NO GAS | 0.000 | ug/l | 238.62 |
| Zn | 66 | 72 | 1 | NO GAS | 0.000 | ug/l | 489.00 |
| Zn | 66 | 72 | 3 | He | 0.000 | ug/l | 91.11 |
| As | 75 | 72 | 1 | NO GAS | 0.000 | ug/l | 3116.31 |
| As | 75 | 72 | 3 | He | 0.000 | ug/l | 5.00 |
| Se | 78 | 72 | 2 | H2 | 0.000 | ug/l | 2.33 |
| Br | 79 | 72 | 1 | NO GAS | 0.000 | ug/l | 63558.85 |
| Br | 79 | 72 | 2 | H2 | 0.000 | ug/l | 8938.12 |
| Se | 82 | 72 | 1 | NO GAS | 0.000 | ug/l | 168.34 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7593.39 |
| Sr | 88 | 72 | 1 | NO GAS | 0.000 | ug/l | 345.99 |
| Sr | 88 | 72 | 3 | He | 0.000 | ug/l | 240.00 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.000 | ug/l | 75.55 |
| Mo | 95 | 72 | 3 | He | 0.000 | ug/l | 35.56 |
| Mo | 98 | 72 | 1 | NO GAS | 0.000 | ug/l | 154.52 |
| Ag | 107 | 72 | 1 | NO GAS | 0.000 | ug/l | 1719.09 |
| Ag | 109 | 72 | 1 | NO GAS | 0.000 | ug/l | 1685.09 |
| Cd | 111 | 159 | 1 | NO GAS | 0.000 | ug/l | -40.03 |
| Cd | 111 | 159 | 3 | He | 0.000 | ug/l | 0.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.000 | ug/l | -250.96 |
| Cd | 114 | 159 | 3 | He | 0.000 | ug/l | -33.69 |
| Sn | 118 | 159 | 1 | NO GAS | 0.000 | ug/l | 41708.59 |
| Sn | 118 | 159 | 3 | He | 0.000 | ug/l | 6259.04 |
| Sb | 121 | 159 | 1 | NO GAS | 0.000 | ug/l | 165.56 |
| Sb | 121 | 159 | 3 | He | 0.000 | ug/l | 34.44 |
| Sb | 123 | 159 | 1 | NO GAS | 0.000 | ug/l | 154.45 |
| Sb | 123 | 159 | 3 | He | 0.000 | ug/l | 23.33 |
| Ba | 135 | 159 | 1 | NO GAS | 0.000 | ug/l | 13.31 |
| Ba | 137 | 159 | 1 | NO GAS | 0.000 | ug/l | 46.57 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 73.41 |
| La | 139 | 175 | 3 | He | 0.000 | ug/l | 0.00 |
| Ce | 140 | 175 | 1 | NO GAS | 0.000 | ug/l | 63.40 |
| Ce | 140 | 175 | 3 | He | 0.000 | ug/l | 20.02 |
| Hg | 201 | 175 | 1 | NO GAS | 0.000 | ug/l | 13.33 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 70.99 |
| Hg | 202 | 175 | 3 | He | 0.000 | ug/l | 25.00 |
| Tl | 203 | 175 | 3 | He | 0.000 | ug/l | 90.65 |
| Tl | 205 | 175 | 1 | NO GAS | 0.000 | ug/l | 304.45 |
| Tl | 205 | 175 | 3 | He | 0.000 | ug/l | 220.63 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.000 | ug/l | 62.22 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.000 | ug/l | 47.78 |
| Pb | 208 | 175 | 1 | NO GAS | 0.000 | ug/l | 217.78 |
| Th | 232 | 175 | 3 | He | 0.000 | ug/l | 961.85 |
| U | 238 | 175 | 1 | NO GAS | 0.000 | ug/l | 126.31 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1866031.52 | 100.0 |
| Sc | 45 | 2 | H2 | 82592.20 | 100.0 |
| Sc | 45 | 3 | He | 50304.07 | 100.0 |
| Ge | 72 | 1 | NO GAS | 845911.32 | 100.0 |
| Ge | 72 | 2 | H2 | 118513.05 | 100.0 |
| Ge | 72 | 3 | He | 75477.75 | 100.0 |
| Tb | 159 | 1 | NO GAS | 18265699.85 | 100.0 |
| Tb | 159 | 3 | He | 7058065.37 | 100.0 |
| Ho | 165 | 1 | NO GAS | 16967684.17 | 100.0 |
| Ho | 165 | 3 | He | 6666509.81 | 100.0 |
| Lu | 175 | 1 | NO GAS | 18965751.33 | 100.0 |
| Lu | 175 | 3 | He | 4161096.47 | 100.0 |

ICPMS206-B Analytical Data

Sample Name 0.025 PPB STD
File Name 027CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 21:30:42
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.090 | ug/l | 1875.73 |
| Be | 9 | 45 | 1 | NO GAS | 0.012 | ug/l | 8.67 |
| B | 11 | 45 | 1 | NO GAS | -0.037 | ug/l | 149.97 |
| Na | 23 | 45 | 3 | He | 2.419 | ug/l | 7191.53 |
| Mg | 24 | 45 | 3 | He | 6.598 | ug/l | 319.37 |
| Al | 27 | 45 | 1 | NO GAS | -0.006 | ug/l | 595.57 |
| Si | 28 | 45 | 2 | H2 | 0.158 | ug/l | 21.33 |
| K | 39 | 72 | 3 | He | 3.803 | ug/l | 2873.60 |
| Ca | 40 | 72 | 2 | H2 | 7.203 | ug/l | 1917.51 |
| Ti | 47 | 72 | 1 | NO GAS | 0.040 | ug/l | 56.64 |
| V | 51 | 72 | 1 | NO GAS | -0.297 | ug/l | -10942.60 |
| V | 51 | 72 | 3 | He | 0.058 | ug/l | 156.67 |
| Cr | 52 | 72 | 1 | NO GAS | 0.010 | ug/l | 9710.27 |
| Cr | 52 | 72 | 3 | He | 0.004 | ug/l | 146.38 |
| Cr | 53 | 72 | 1 | NO GAS | 2.231 | ug/l | 48636.72 |
| Mn | 55 | 72 | 1 | NO GAS | 0.020 | ug/l | 1071.26 |
| Mn | 55 | 72 | 3 | He | 0.027 | ug/l | 27.33 |
| Fe | 56 | 72 | 2 | H2 | 0.627 | ug/l | 994.54 |
| Fe | 56 | 72 | 3 | He | 0.633 | ug/l | 1634.28 |
| Co | 59 | 72 | 1 | NO GAS | 0.018 | ug/l | 345.98 |
| Ni | 60 | 72 | 1 | NO GAS | 0.032 | ug/l | 172.99 |
| Ni | 60 | 72 | 3 | He | 0.022 | ug/l | 52.22 |
| Ni | 62 | 72 | 1 | NO GAS | 0.124 | ug/l | 342.66 |
| Cu | 63 | 72 | 1 | NO GAS | 0.003 | ug/l | 489.24 |
| Cu | 63 | 72 | 3 | He | -0.006 | ug/l | 182.30 |
| Cu | 65 | 72 | 1 | NO GAS | 0.000 | ug/l | 236.62 |
| Zn | 66 | 72 | 1 | NO GAS | -0.007 | ug/l | 469.03 |
| Zn | 66 | 72 | 3 | He | -0.025 | ug/l | 81.11 |
| As | 75 | 72 | 1 | NO GAS | 0.324 | ug/l | 4104.15 |
| As | 75 | 72 | 3 | He | 0.026 | ug/l | 13.00 |
| Se | 78 | 72 | 2 | H2 | 0.001 | ug/l | 2.33 |
| Br | 79 | 72 | 1 | NO GAS | 0.554 | ug/l | 66798.64 |
| Br | 79 | 72 | 2 | H2 | 0.813 | ug/l | 9327.51 |
| Se | 82 | 72 | 1 | NO GAS | 0.677 | ug/l | 345.33 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7892.95 |
| Sr | 88 | 72 | 1 | NO GAS | 0.028 | ug/l | 1354.05 |
| Sr | 88 | 72 | 3 | He | 0.007 | ug/l | 255.56 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.032 | ug/l | 327.78 |
| Mo | 95 | 72 | 3 | He | 0.025 | ug/l | 100.00 |
| Mo | 98 | 72 | 1 | NO GAS | 0.023 | ug/l | 467.59 |
| Ag | 107 | 72 | 1 | NO GAS | 0.014 | ug/l | 2023.07 |
| Ag | 109 | 72 | 1 | NO GAS | 0.012 | ug/l | 1947.73 |
| Cd | 111 | 159 | 1 | NO GAS | 0.024 | ug/l | 91.46 |
| Cd | 111 | 159 | 3 | He | 0.019 | ug/l | 27.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.017 | ug/l | -31.82 |
| Cd | 114 | 159 | 3 | He | 0.034 | ug/l | 88.02 |
| Sn | 118 | 159 | 1 | NO GAS | -2.492 | ug/l | 3147.43 |
| Sn | 118 | 159 | 3 | He | -2.311 | ug/l | 467.79 |
| Sb | 121 | 159 | 1 | NO GAS | 0.026 | ug/l | 733.36 |
| Sb | 121 | 159 | 3 | He | 0.021 | ug/l | 101.11 |
| Sb | 123 | 159 | 1 | NO GAS | 0.024 | ug/l | 571.13 |
| Sb | 123 | 159 | 3 | He | 0.031 | ug/l | 106.67 |
| Ba | 135 | 159 | 1 | NO GAS | 0.031 | ug/l | 163.01 |
| Ba | 137 | 159 | 1 | NO GAS | 0.020 | ug/l | 216.24 |
| La | 139 | 175 | 1 | NO GAS | 0.023 | ug/l | 1935.45 |
| La | 139 | 175 | 3 | He | 0.025 | ug/l | 440.46 |
| Ce | 140 | 175 | 1 | NO GAS | 0.023 | ug/l | 1872.03 |
| Ce | 140 | 175 | 3 | He | 0.026 | ug/l | 610.64 |
| Hg | 201 | 175 | 1 | NO GAS | 0.002 | ug/l | 22.00 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 72.32 |
| Hg | 202 | 175 | 3 | He | 0.002 | ug/l | 36.66 |
| Tl | 203 | 175 | 3 | He | 0.022 | ug/l | 388.60 |
| Tl | 205 | 175 | 1 | NO GAS | 0.024 | ug/l | 1781.23 |
| Tl | 205 | 175 | 3 | He | 0.026 | ug/l | 1061.83 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.023 | ug/l | 556.68 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.025 | ug/l | 510.01 |
| Pb | 208 | 175 | 1 | NO GAS | 0.024 | ug/l | 2273.42 |
| Th | 232 | 175 | 3 | He | 0.018 | ug/l | 1848.42 |
| U | 238 | 175 | 1 | NO GAS | 0.023 | ug/l | 2416.39 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1800689.84 | 96.5 |
| Sc | 45 | 2 | H2 | 80555.98 | 97.5 |
| Sc | 45 | 3 | He | 50945.77 | 101.3 |
| Ge | 72 | 1 | NO GAS | 841528.50 | 99.5 |
| Ge | 72 | 2 | H2 | 113965.14 | 96.2 |
| Ge | 72 | 3 | He | 76836.97 | 101.8 |
| Tb | 159 | 1 | NO GAS | 18325372.85 | 100.3 |
| Tb | 159 | 3 | He | 6897685.36 | 97.7 |
| Ho | 165 | 1 | NO GAS | 16957080.65 | 99.9 |
| Ho | 165 | 3 | He | 6805864.84 | 102.1 |
| Lu | 175 | 1 | NO GAS | 19044263.80 | 100.4 |
| Lu | 175 | 3 | He | 4180241.14 | 100.5 |

ICPMS206-B Analytical Data

Sample Name 0.05 PPB STD
File Name 028CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 21:36:33
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.278 | ug/l | 2031.05 |
| Be | 9 | 45 | 1 | NO GAS | 0.074 | ug/l | 26.00 |
| B | 11 | 45 | 1 | NO GAS | -0.046 | ug/l | 151.30 |
| Na | 23 | 45 | 3 | He | 11.980 | ug/l | 8026.34 |
| Mg | 24 | 45 | 3 | He | 12.814 | ug/l | 602.16 |
| Al | 27 | 45 | 1 | NO GAS | 0.031 | ug/l | 716.69 |
| Si | 28 | 45 | 2 | H2 | 0.773 | ug/l | 33.99 |
| K | 39 | 72 | 3 | He | 12.098 | ug/l | 3275.33 |
| Ca | 40 | 72 | 2 | H2 | 13.591 | ug/l | 3235.39 |
| Ti | 47 | 72 | 1 | NO GAS | 0.073 | ug/l | 83.29 |
| V | 51 | 72 | 1 | NO GAS | -0.308 | ug/l | -11025.42 |
| V | 51 | 72 | 3 | He | 0.084 | ug/l | 192.23 |
| Cr | 52 | 72 | 1 | NO GAS | 0.076 | ug/l | 10479.25 |
| Cr | 52 | 72 | 3 | He | 0.066 | ug/l | 259.49 |
| Cr | 53 | 72 | 1 | NO GAS | 1.974 | ug/l | 48211.79 |
| Mn | 55 | 72 | 1 | NO GAS | 0.053 | ug/l | 1640.17 |
| Mn | 55 | 72 | 3 | He | 0.053 | ug/l | 49.67 |
| Fe | 56 | 72 | 2 | H2 | 1.241 | ug/l | 1697.59 |
| Fe | 56 | 72 | 3 | He | 1.406 | ug/l | 2950.49 |
| Co | 59 | 72 | 1 | NO GAS | 0.051 | ug/l | 855.00 |
| Ni | 60 | 72 | 1 | NO GAS | 0.049 | ug/l | 229.55 |
| Ni | 60 | 72 | 3 | He | 0.044 | ug/l | 77.78 |
| Ni | 62 | 72 | 1 | NO GAS | 0.220 | ug/l | 392.56 |
| Cu | 63 | 72 | 1 | NO GAS | 0.026 | ug/l | 690.55 |
| Cu | 63 | 72 | 3 | He | 0.027 | ug/l | 295.28 |
| Cu | 65 | 72 | 1 | NO GAS | 0.025 | ug/l | 347.27 |
| Zn | 66 | 72 | 1 | NO GAS | 0.020 | ug/l | 545.49 |
| Zn | 66 | 72 | 3 | He | 0.026 | ug/l | 106.66 |
| As | 75 | 72 | 1 | NO GAS | 0.280 | ug/l | 3976.59 |
| As | 75 | 72 | 3 | He | 0.058 | ug/l | 23.00 |
| Se | 78 | 72 | 2 | H2 | 0.042 | ug/l | 6.67 |
| Br | 79 | 72 | 1 | NO GAS | 0.385 | ug/l | 65692.81 |
| Br | 79 | 72 | 2 | H2 | 0.465 | ug/l | 9314.22 |
| Se | 82 | 72 | 1 | NO GAS | 0.762 | ug/l | 368.63 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7829.77 |
| Sr | 88 | 72 | 1 | NO GAS | 0.062 | ug/l | 2535.18 |
| Sr | 88 | 72 | 3 | He | 0.054 | ug/l | 331.12 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.057 | ug/l | 517.79 |
| Mo | 95 | 72 | 3 | He | 0.057 | ug/l | 187.78 |
| Mo | 98 | 72 | 1 | NO GAS | 0.052 | ug/l | 851.92 |
| Ag | 107 | 72 | 1 | NO GAS | 0.022 | ug/l | 2199.05 |
| Ag | 109 | 72 | 1 | NO GAS | 0.027 | ug/l | 2253.05 |
| Cd | 111 | 159 | 1 | NO GAS | 0.063 | ug/l | 302.29 |
| Cd | 111 | 159 | 3 | He | 0.051 | ug/l | 72.65 |
| Cd | 114 | 159 | 1 | NO GAS | 0.062 | ug/l | 520.24 |
| Cd | 114 | 159 | 3 | He | 0.060 | ug/l | 186.75 |
| Sn | 118 | 159 | 1 | NO GAS | -2.446 | ug/l | 3813.02 |
| Sn | 118 | 159 | 3 | He | -2.277 | ug/l | 563.35 |
| Sb | 121 | 159 | 1 | NO GAS | 0.052 | ug/l | 1312.29 |
| Sb | 121 | 159 | 3 | He | 0.056 | ug/l | 218.89 |
| Sb | 123 | 159 | 1 | NO GAS | 0.048 | ug/l | 973.37 |
| Sb | 123 | 159 | 3 | He | 0.058 | ug/l | 184.45 |
| Ba | 135 | 159 | 1 | NO GAS | 0.066 | ug/l | 326.02 |
| Ba | 137 | 159 | 1 | NO GAS | 0.053 | ug/l | 492.37 |
| La | 139 | 175 | 1 | NO GAS | 0.052 | ug/l | 4318.36 |
| La | 139 | 175 | 3 | He | 0.047 | ug/l | 860.91 |
| Ce | 140 | 175 | 1 | NO GAS | 0.052 | ug/l | 4204.88 |
| Ce | 140 | 175 | 3 | He | 0.050 | ug/l | 1184.60 |
| Hg | 201 | 175 | 1 | NO GAS | 0.002 | ug/l | 22.00 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 73.32 |
| Hg | 202 | 175 | 3 | He | 0.001 | ug/l | 34.66 |
| Tl | 203 | 175 | 3 | He | 0.053 | ug/l | 856.52 |
| Tl | 205 | 175 | 1 | NO GAS | 0.053 | ug/l | 3637.14 |
| Tl | 205 | 175 | 3 | He | 0.052 | ug/l | 2002.41 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.055 | ug/l | 1240.06 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.052 | ug/l | 1032.27 |
| Pb | 208 | 175 | 1 | NO GAS | 0.054 | ug/l | 4887.03 |
| Th | 232 | 175 | 3 | He | 0.037 | ug/l | 2884.39 |
| U | 238 | 175 | 1 | NO GAS | 0.051 | ug/l | 5244.22 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1836810.46 | 98.4 |
| Sc | 45 | 2 | H2 | 83378.40 | 101.0 |
| Sc | 45 | 3 | He | 50816.70 | 101.0 |
| Ge | 72 | 1 | NO GAS | 841237.01 | 99.4 |
| Ge | 72 | 2 | H2 | 117594.67 | 99.2 |
| Ge | 72 | 3 | He | 78123.92 | 103.5 |
| Tb | 159 | 1 | NO GAS | 18102520.84 | 99.1 |
| Tb | 159 | 3 | He | 7062696.25 | 100.1 |
| Ho | 165 | 1 | NO GAS | 17347220.15 | 102.2 |
| Ho | 165 | 3 | He | 6750731.85 | 101.3 |
| Lu | 175 | 1 | NO GAS | 19182462.20 | 101.1 |
| Lu | 175 | 3 | He | 4323996.14 | 103.9 |

ICPMS206-B Analytical Data

Sample Name 0.10 PPB STD
File Name 029CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 21:42:24
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----|
| Li | 7 | 165 | 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 | |
| Cr | 53 | 72 | 1 | NO GAS | | 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 | |
| Ni | 62 | 72 | 1 | NO GAS | | 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 | |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----|
| Mo | 95 | 72 | 1 | NO GAS | | ug/l | |
| Mo | 95 | 72 | 3 | He | | ug/l | |
| Mo | 98 | 72 | 1 | NO GAS | | ug/l | |
| Ag | 107 | 72 | 1 | NO GAS | | ug/l | |
| Ag | 109 | 72 | 1 | NO GAS | | ug/l | |
| Cd | 111 | 159 | 1 | NO GAS | | ug/l | |
| Cd | 111 | 159 | 3 | He | | ug/l | |
| Cd | 114 | 159 | 1 | NO GAS | | ug/l | |
| Cd | 114 | 159 | 3 | He | | ug/l | |
| Sn | 118 | 159 | 1 | NO GAS | | ug/l | |
| Sn | 118 | 159 | 3 | He | | ug/l | |
| Sb | 121 | 159 | 1 | NO GAS | | ug/l | |
| Sb | 121 | 159 | 3 | He | | ug/l | |
| Sb | 123 | 159 | 1 | NO GAS | | ug/l | |
| Sb | 123 | 159 | 3 | He | | ug/l | |
| Ba | 135 | 159 | 1 | NO GAS | | ug/l | |
| Ba | 137 | 159 | 1 | NO GAS | | ug/l | |
| La | 139 | 175 | 1 | NO GAS | | ug/l | |
| La | 139 | 175 | 3 | He | | ug/l | |
| Ce | 140 | 175 | 1 | NO GAS | | ug/l | |
| Ce | 140 | 175 | 3 | He | | ug/l | |
| Hg | 201 | 175 | 1 | NO GAS | | ug/l | |
| Hg | 202 | 175 | 1 | NO GAS | | ug/l | |
| Hg | 202 | 175 | 3 | He | | ug/l | |
| Tl | 203 | 175 | 3 | He | | ug/l | |
| Tl | 205 | 175 | 1 | NO GAS | | ug/l | |
| Tl | 205 | 175 | 3 | He | | ug/l | |
| [Pb] | 206 | 175 | 1 | NO GAS | | ug/l | |
| [Pb] | 207 | 175 | 1 | NO GAS | | ug/l | |
| Pb | 208 | 175 | 1 | NO GAS | | ug/l | |
| Th | 232 | 175 | 3 | He | | ug/l | |
| U | 238 | 175 | 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 | | |
| 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 | | |

ICPMS206-B Analytical Data

Sample Name 0.5 PPB STD
File Name 030CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 21:48:15
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 4.966 | ug/l | 4754.38 |
| Be | 9 | 45 | 1 | NO GAS | 0.447 | ug/l | 131.31 |
| B | 11 | 45 | 1 | NO GAS | 0.188 | ug/l | 201.96 |
| Na | 23 | 45 | 3 | He | 123.450 | ug/l | 18202.96 |
| Mg | 24 | 45 | 3 | He | 118.910 | ug/l | 5536.64 |
| Al | 27 | 45 | 1 | NO GAS | 0.475 | ug/l | 2043.47 |
| Si | 28 | 45 | 2 | H2 | 1.896 | ug/l | 55.32 |
| K | 39 | 72 | 3 | He | 119.152 | ug/l | 7770.71 |
| Ca | 40 | 72 | 2 | H2 | 125.826 | ug/l | 25162.98 |
| Ti | 47 | 72 | 1 | NO GAS | 0.517 | ug/l | 443.12 |
| V | 51 | 72 | 1 | NO GAS | 0.043 | ug/l | -6583.91 |
| V | 51 | 72 | 3 | He | 0.488 | ug/l | 703.35 |
| Cr | 52 | 72 | 1 | NO GAS | 0.561 | ug/l | 15802.86 |
| Cr | 52 | 72 | 3 | He | 0.484 | ug/l | 1001.38 |
| Cr | 53 | 72 | 1 | NO GAS | 3.211 | ug/l | 49112.37 |
| Mn | 55 | 72 | 1 | NO GAS | 0.512 | ug/l | 9467.33 |
| Mn | 55 | 72 | 3 | He | 0.478 | ug/l | 406.05 |
| Fe | 56 | 72 | 2 | H2 | 12.815 | ug/l | 14197.38 |
| Fe | 56 | 72 | 3 | He | 12.566 | ug/l | 21511.54 |
| Co | 59 | 72 | 1 | NO GAS | 0.524 | ug/l | 7972.85 |
| Ni | 60 | 72 | 1 | NO GAS | 0.559 | ug/l | 1939.61 |
| Ni | 60 | 72 | 3 | He | 0.508 | ug/l | 595.57 |
| Ni | 62 | 72 | 1 | NO GAS | 0.675 | ug/l | 618.79 |
| Cu | 63 | 72 | 1 | NO GAS | 0.522 | ug/l | 4905.76 |
| Cu | 63 | 72 | 3 | He | 0.475 | ug/l | 1778.74 |
| Cu | 65 | 72 | 1 | NO GAS | 0.511 | ug/l | 2405.70 |
| Zn | 66 | 72 | 1 | NO GAS | 0.457 | ug/l | 1756.46 |
| Zn | 66 | 72 | 3 | He | 0.460 | ug/l | 314.45 |
| As | 75 | 72 | 1 | NO GAS | 0.595 | ug/l | 4840.07 |
| As | 75 | 72 | 3 | He | 0.471 | ug/l | 148.97 |
| Se | 78 | 72 | 2 | H2 | 0.420 | ug/l | 45.66 |
| Br | 79 | 72 | 1 | NO GAS | 0.605 | ug/l | 65729.21 |
| Br | 79 | 72 | 2 | H2 | 0.109 | ug/l | 8918.14 |
| Se | 82 | 72 | 1 | NO GAS | 1.375 | ug/l | 516.35 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7819.73 |
| Sr | 88 | 72 | 1 | NO GAS | 0.528 | ug/l | 18736.93 |
| Sr | 88 | 72 | 3 | He | 0.539 | ug/l | 1078.93 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.510 | ug/l | 3972.74 |
| Mo | 95 | 72 | 3 | He | 0.484 | ug/l | 1312.29 |
| Mo | 98 | 72 | 1 | NO GAS | 0.496 | ug/l | 6641.76 |
| Ag | 107 | 72 | 1 | NO GAS | 0.215 | ug/l | 6310.66 |
| Ag | 109 | 72 | 1 | NO GAS | 0.208 | ug/l | 6049.94 |
| Cd | 111 | 159 | 1 | NO GAS | 0.483 | ug/l | 2583.17 |
| Cd | 111 | 159 | 3 | He | 0.497 | ug/l | 693.22 |
| Cd | 114 | 159 | 1 | NO GAS | 0.510 | ug/l | 6093.82 |
| Cd | 114 | 159 | 3 | He | 0.519 | ug/l | 1842.71 |
| Sn | 118 | 159 | 1 | NO GAS | -1.981 | ug/l | 10958.83 |
| Sn | 118 | 159 | 3 | He | -1.878 | ug/l | 1544.53 |
| Sb | 121 | 159 | 1 | NO GAS | 0.476 | ug/l | 10606.91 |
| Sb | 121 | 159 | 3 | He | 0.481 | ug/l | 1617.87 |
| Sb | 123 | 159 | 1 | NO GAS | 0.459 | ug/l | 7998.72 |
| Sb | 123 | 159 | 3 | He | 0.459 | ug/l | 1274.51 |
| Ba | 135 | 159 | 1 | NO GAS | 0.529 | ug/l | 2535.21 |
| Ba | 137 | 159 | 1 | NO GAS | 0.497 | ug/l | 4222.23 |
| La | 139 | 175 | 1 | NO GAS | 0.501 | ug/l | 39241.64 |
| La | 139 | 175 | 3 | He | 0.480 | ug/l | 8644.51 |
| Ce | 140 | 175 | 1 | NO GAS | 0.498 | ug/l | 38258.47 |
| Ce | 140 | 175 | 3 | He | 0.460 | ug/l | 10544.32 |
| Hg | 201 | 175 | 1 | NO GAS | 0.010 | ug/l | 52.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.009 | ug/l | 148.64 |
| Hg | 202 | 175 | 3 | He | 0.010 | ug/l | 97.65 |
| Tl | 203 | 175 | 3 | He | 0.496 | ug/l | 7074.94 |
| Tl | 205 | 175 | 1 | NO GAS | 0.511 | ug/l | 30949.45 |
| Tl | 205 | 175 | 3 | He | 0.495 | ug/l | 16762.64 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.508 | ug/l | 10581.57 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.500 | ug/l | 9166.16 |
| Pb | 208 | 175 | 1 | NO GAS | 0.508 | ug/l | 42351.48 |
| Th | 232 | 175 | 3 | He | 0.388 | ug/l | 20499.39 |
| U | 238 | 175 | 1 | NO GAS | 0.488 | ug/l | 47167.26 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1867226.56 | 100.1 |
| Sc | 45 | 2 | H2 | 83423.32 | 101.0 |
| Sc | 45 | 3 | He | 51212.02 | 101.8 |
| Ge | 72 | 1 | NO GAS | 824017.27 | 97.4 |
| Ge | 72 | 2 | H2 | 116843.60 | 98.6 |
| Ge | 72 | 3 | He | 77970.41 | 103.3 |
| Tb | 159 | 1 | NO GAS | 18156208.69 | 99.4 |
| Tb | 159 | 3 | He | 6979098.54 | 98.9 |
| Ho | 165 | 1 | NO GAS | 17034432.58 | 100.4 |
| Ho | 165 | 3 | He | 6750317.89 | 101.3 |
| Lu | 175 | 1 | NO GAS | 18440651.04 | 97.2 |
| Lu | 175 | 3 | He | 4264523.80 | 102.5 |

ICPMS206-B Analytical Data

Sample Name 1 PPB STD
File Name 031CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 21:54:07
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 11.807 | ug/l | 8886.51 |
| Be | 9 | 45 | 1 | NO GAS | 1.142 | ug/l | 328.27 |
| B | 11 | 45 | 1 | NO GAS | 0.741 | ug/l | 319.27 |
| Na | 23 | 45 | 3 | He | 276.556 | ug/l | 31766.01 |
| Mg | 24 | 45 | 3 | He | 283.540 | ug/l | 13035.84 |
| Al | 27 | 45 | 1 | NO GAS | 1.057 | ug/l | 3787.11 |
| Si | 28 | 45 | 2 | H2 | 4.531 | ug/l | 105.98 |
| K | 39 | 72 | 3 | He | 245.317 | ug/l | 13145.16 |
| Ca | 40 | 72 | 2 | H2 | 277.650 | ug/l | 54513.35 |
| Ti | 47 | 72 | 1 | NO GAS | 1.073 | ug/l | 912.91 |
| V | 51 | 72 | 1 | NO GAS | 0.913 | ug/l | 3955.09 |
| V | 51 | 72 | 3 | He | 1.109 | ug/l | 1498.97 |
| Cr | 52 | 72 | 1 | NO GAS | 1.086 | ug/l | 22240.75 |
| Cr | 52 | 72 | 3 | He | 1.188 | ug/l | 2265.69 |
| Cr | 53 | 72 | 1 | NO GAS | 2.410 | ug/l | 48830.37 |
| Mn | 55 | 72 | 1 | NO GAS | 1.143 | ug/l | 20661.89 |
| Mn | 55 | 72 | 3 | He | 1.111 | ug/l | 941.45 |
| Fe | 56 | 72 | 2 | H2 | 27.311 | ug/l | 29688.39 |
| Fe | 56 | 72 | 3 | He | 25.800 | ug/l | 43756.62 |
| Co | 59 | 72 | 1 | NO GAS | 1.151 | ug/l | 17784.26 |
| Ni | 60 | 72 | 1 | NO GAS | 1.184 | ug/l | 4119.03 |
| Ni | 60 | 72 | 3 | He | 1.130 | ug/l | 1296.73 |
| Ni | 62 | 72 | 1 | NO GAS | 1.321 | ug/l | 968.12 |
| Cu | 63 | 72 | 1 | NO GAS | 1.200 | ug/l | 10879.38 |
| Cu | 63 | 72 | 3 | He | 1.159 | ug/l | 4065.02 |
| Cu | 65 | 72 | 1 | NO GAS | 1.153 | ug/l | 5236.46 |
| Zn | 66 | 72 | 1 | NO GAS | 1.085 | ug/l | 3576.23 |
| Zn | 66 | 72 | 3 | He | 1.137 | ug/l | 641.13 |
| As | 75 | 72 | 1 | NO GAS | 1.417 | ug/l | 7450.14 |
| As | 75 | 72 | 3 | He | 1.102 | ug/l | 343.60 |
| Se | 78 | 72 | 2 | H2 | 1.042 | ug/l | 109.31 |
| Br | 79 | 72 | 1 | NO GAS | 0.137 | ug/l | 64003.05 |
| Br | 79 | 72 | 2 | H2 | -0.015 | ug/l | 8755.02 |
| Se | 82 | 72 | 1 | NO GAS | 2.548 | ug/l | 832.43 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7726.55 |
| Sr | 88 | 72 | 1 | NO GAS | 1.159 | ug/l | 41493.50 |
| Sr | 88 | 72 | 3 | He | 1.117 | ug/l | 1980.14 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 1.160 | ug/l | 9113.72 |
| Mo | 95 | 72 | 3 | He | 1.090 | ug/l | 2928.06 |
| Mo | 98 | 72 | 1 | NO GAS | 1.097 | ug/l | 14770.23 |
| Ag | 107 | 72 | 1 | NO GAS | 0.473 | ug/l | 12080.12 |
| Ag | 109 | 72 | 1 | NO GAS | 0.464 | ug/l | 11685.90 |
| Cd | 111 | 159 | 1 | NO GAS | 1.083 | ug/l | 5911.89 |
| Cd | 111 | 159 | 3 | He | 1.075 | ug/l | 1519.11 |
| Cd | 114 | 159 | 1 | NO GAS | 1.155 | ug/l | 14289.17 |
| Cd | 114 | 159 | 3 | He | 1.096 | ug/l | 3981.94 |
| Sn | 118 | 159 | 1 | NO GAS | -1.339 | ug/l | 21078.92 |
| Sn | 118 | 159 | 3 | He | -1.236 | ug/l | 3177.01 |
| Sb | 121 | 159 | 1 | NO GAS | 1.074 | ug/l | 24012.43 |
| Sb | 121 | 159 | 3 | He | 0.984 | ug/l | 3312.59 |
| Sb | 123 | 159 | 1 | NO GAS | 1.062 | ug/l | 18495.14 |
| Sb | 123 | 159 | 3 | He | 1.035 | ug/l | 2879.17 |
| Ba | 135 | 159 | 1 | NO GAS | 1.110 | ug/l | 5360.32 |
| Ba | 137 | 159 | 1 | NO GAS | 1.087 | ug/l | 9294.41 |
| La | 139 | 175 | 1 | NO GAS | 1.084 | ug/l | 87982.57 |
| La | 139 | 175 | 3 | He | 1.153 | ug/l | 20036.53 |
| Ce | 140 | 175 | 1 | NO GAS | 1.095 | ug/l | 87093.74 |
| Ce | 140 | 175 | 3 | He | 1.156 | ug/l | 25556.69 |
| Hg | 201 | 175 | 1 | NO GAS | 0.021 | ug/l | 100.98 |
| Hg | 202 | 175 | 1 | NO GAS | 0.023 | ug/l | 287.28 |
| Hg | 202 | 175 | 3 | He | 0.023 | ug/l | 179.63 |
| Tl | 203 | 175 | 3 | He | 1.119 | ug/l | 15302.69 |
| Tl | 205 | 175 | 1 | NO GAS | 1.113 | ug/l | 69484.56 |
| Tl | 205 | 175 | 3 | He | 1.182 | ug/l | 38305.30 |
| [Pb] | 206 | 175 | 1 | NO GAS | 1.120 | ug/l | 24115.99 |
| [Pb] | 207 | 175 | 1 | NO GAS | 1.087 | ug/l | 20587.41 |
| Pb | 208 | 175 | 1 | NO GAS | 1.113 | ug/l | 95846.85 |
| Th | 232 | 175 | 3 | He | 0.949 | ug/l | 47008.56 |
| U | 238 | 175 | 1 | NO GAS | 1.061 | ug/l | 106120.24 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1877940.98 | 100.6 |
| Sc | 45 | 2 | H2 | 83105.09 | 100.6 |
| Sc | 45 | 3 | He | 50703.94 | 100.8 |
| Ge | 72 | 1 | NO GAS | 839997.49 | 99.3 |
| Ge | 72 | 2 | H2 | 116146.56 | 98.0 |
| Ge | 72 | 3 | He | 78413.25 | 103.9 |
| Tb | 159 | 1 | NO GAS | 18363999.39 | 100.5 |
| Tb | 159 | 3 | He | 7077545.63 | 100.3 |
| Ho | 165 | 1 | NO GAS | 17232300.86 | 101.6 |
| Ho | 165 | 3 | He | 6686893.53 | 100.3 |
| Lu | 175 | 1 | NO GAS | 19104992.66 | 100.7 |
| Lu | 175 | 3 | He | 4121838.91 | 99.1 |

ICPMS206-B Analytical Data

Sample Name 10 PPB STD
File Name 032CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 21:59:59
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 110.323 | ug/l | 65688.12 |
| Be | 9 | 45 | 1 | NO GAS | 9.589 | ug/l | 2776.34 |
| B | 11 | 45 | 1 | NO GAS | 8.856 | ug/l | 2060.39 |
| Na | 23 | 45 | 3 | He | 2436.365 | ug/l | 238218.55 |
| Mg | 24 | 45 | 3 | He | 2340.894 | ug/l | 113664.56 |
| Al | 27 | 45 | 1 | NO GAS | 9.772 | ug/l | 30359.10 |
| Si | 28 | 45 | 2 | H2 | 37.494 | ug/l | 772.53 |
| K | 39 | 72 | 3 | He | 2347.001 | ug/l | 100098.52 |
| Ca | 40 | 72 | 2 | H2 | 2465.794 | ug/l | 490797.02 |
| Ti | 47 | 72 | 1 | NO GAS | 10.074 | ug/l | 8373.00 |
| V | 51 | 72 | 1 | NO GAS | 9.465 | ug/l | 109251.67 |
| V | 51 | 72 | 3 | He | 10.339 | ug/l | 12985.00 |
| Cr | 52 | 72 | 1 | NO GAS | 9.859 | ug/l | 124401.91 |
| Cr | 52 | 72 | 3 | He | 9.712 | ug/l | 17214.62 |
| Cr | 53 | 72 | 1 | NO GAS | 12.450 | ug/l | 64441.99 |
| Mn | 55 | 72 | 1 | NO GAS | 10.226 | ug/l | 179050.75 |
| Mn | 55 | 72 | 3 | He | 10.463 | ug/l | 8654.42 |
| Fe | 56 | 72 | 2 | H2 | 244.756 | ug/l | 269396.01 |
| Fe | 56 | 72 | 3 | He | 245.817 | ug/l | 404031.18 |
| Co | 59 | 72 | 1 | NO GAS | 10.470 | ug/l | 161177.06 |
| Ni | 60 | 72 | 1 | NO GAS | 10.545 | ug/l | 36183.84 |
| Ni | 60 | 72 | 3 | He | 10.544 | ug/l | 11618.53 |
| Ni | 62 | 72 | 1 | NO GAS | 10.818 | ug/l | 5945.99 |
| Cu | 63 | 72 | 1 | NO GAS | 10.656 | ug/l | 92930.05 |
| Cu | 63 | 72 | 3 | He | 10.638 | ug/l | 34973.86 |
| Cu | 65 | 72 | 1 | NO GAS | 10.453 | ug/l | 45545.19 |
| Zn | 66 | 72 | 1 | NO GAS | 10.181 | ug/l | 29477.01 |
| Zn | 66 | 72 | 3 | He | 10.565 | ug/l | 5080.81 |
| As | 75 | 72 | 1 | NO GAS | 10.259 | ug/l | 34476.57 |
| As | 75 | 72 | 3 | He | 10.325 | ug/l | 3117.01 |
| Se | 78 | 72 | 2 | H2 | 10.348 | ug/l | 1090.49 |
| Br | 79 | 72 | 1 | NO GAS | 0.438 | ug/l | 65927.21 |
| Br | 79 | 72 | 2 | H2 | 0.043 | ug/l | 9017.98 |
| Se | 82 | 72 | 1 | NO GAS | 11.324 | ug/l | 3105.71 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 10136.41 |
| Sr | 88 | 72 | 1 | NO GAS | 10.295 | ug/l | 365540.52 |
| Sr | 88 | 72 | 3 | He | 10.427 | ug/l | 16082.40 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 10.235 | ug/l | 79788.94 |
| Mo | 95 | 72 | 3 | He | 10.503 | ug/l | 27374.03 |
| Mo | 98 | 72 | 1 | NO GAS | 10.101 | ug/l | 134758.07 |
| Ag | 107 | 72 | 1 | NO GAS | 4.301 | ug/l | 95999.06 |
| Ag | 109 | 72 | 1 | NO GAS | 4.224 | ug/l | 92856.67 |
| Cd | 111 | 159 | 1 | NO GAS | 10.250 | ug/l | 55459.81 |
| Cd | 111 | 159 | 3 | He | 9.647 | ug/l | 13469.61 |
| Cd | 114 | 159 | 1 | NO GAS | 10.659 | ug/l | 131903.21 |
| Cd | 114 | 159 | 3 | He | 9.917 | ug/l | 35828.84 |
| Sn | 118 | 159 | 1 | NO GAS | 7.975 | ug/l | 163535.01 |
| Sn | 118 | 159 | 3 | He | 7.789 | ug/l | 25495.81 |
| Sb | 121 | 159 | 1 | NO GAS | 9.850 | ug/l | 215770.84 |
| Sb | 121 | 159 | 3 | He | 9.319 | ug/l | 30711.55 |
| Sb | 123 | 159 | 1 | NO GAS | 9.970 | ug/l | 169954.01 |
| Sb | 123 | 159 | 3 | He | 9.832 | ug/l | 26813.68 |
| Ba | 135 | 159 | 1 | NO GAS | 9.870 | ug/l | 46893.21 |
| Ba | 137 | 159 | 1 | NO GAS | 9.926 | ug/l | 83229.02 |
| La | 139 | 175 | 1 | NO GAS | 9.855 | ug/l | 788882.90 |
| La | 139 | 175 | 3 | He | 10.446 | ug/l | 179368.18 |
| Ce | 140 | 175 | 1 | NO GAS | 9.822 | ug/l | 770822.66 |
| Ce | 140 | 175 | 3 | He | 10.364 | ug/l | 226154.93 |
| Hg | 201 | 175 | 1 | NO GAS | 0.191 | ug/l | 797.20 |
| Hg | 202 | 175 | 1 | NO GAS | 0.195 | ug/l | 1883.74 |
| Hg | 202 | 175 | 3 | He | 0.204 | ug/l | 1362.46 |
| Tl | 203 | 175 | 3 | He | 10.308 | ug/l | 138616.96 |
| Tl | 205 | 175 | 1 | NO GAS | 10.180 | ug/l | 625052.96 |
| Tl | 205 | 175 | 3 | He | 10.995 | ug/l | 350452.67 |
| [Pb] | 206 | 175 | 1 | NO GAS | 10.152 | ug/l | 215330.13 |
| [Pb] | 207 | 175 | 1 | NO GAS | 10.001 | ug/l | 186614.73 |
| Pb | 208 | 175 | 1 | NO GAS | 10.135 | ug/l | 860138.87 |
| Th | 232 | 175 | 3 | He | 9.923 | ug/l | 477172.57 |
| U | 238 | 175 | 1 | NO GAS | 9.800 | ug/l | 966771.58 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1919867.00 | 102.9 |
| Sc | 45 | 2 | H2 | 86694.52 | 105.0 |
| Sc | 45 | 3 | He | 53552.13 | 106.5 |
| Ge | 72 | 1 | NO GAS | 840045.76 | 99.3 |
| Ge | 72 | 2 | H2 | 118829.35 | 100.3 |
| Ge | 72 | 3 | He | 76992.30 | 102.0 |
| Tb | 159 | 1 | NO GAS | 18094535.98 | 99.1 |
| Tb | 159 | 3 | He | 6990582.00 | 99.0 |
| Ho | 165 | 1 | NO GAS | 16754863.65 | 98.7 |
| Ho | 165 | 3 | He | 6738980.93 | 101.1 |
| Lu | 175 | 1 | NO GAS | 18862227.40 | 99.5 |
| Lu | 175 | 3 | He | 4071934.94 | 97.9 |

ICPMS206-B Analytical Data

Sample Name 50 PPB STD
File Name 033CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 22:05:50
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 541.283 | ug/l | 321802.05 |
| Be | 9 | 45 | 1 | NO GAS | 49.256 | ug/l | 14537.12 |
| B | 11 | 45 | 1 | NO GAS | 47.982 | ug/l | 10626.50 |
| Na | 23 | 45 | 3 | He | 12027.440 | ug/l | 1151302.24 |
| Mg | 24 | 45 | 3 | He | 11891.085 | ug/l | 579537.13 |
| Al | 27 | 45 | 1 | NO GAS | 47.574 | ug/l | 148576.62 |
| Si | 28 | 45 | 2 | H2 | 193.666 | ug/l | 4075.03 |
| K | 39 | 72 | 3 | He | 11818.011 | ug/l | 514585.14 |
| Ca | 40 | 72 | 2 | H2 | 12376.854 | ug/l | 2558726.63 |
| Ti | 47 | 72 | 1 | NO GAS | 48.278 | ug/l | 41029.44 |
| V | 51 | 72 | 1 | NO GAS | 47.025 | ug/l | 589142.58 |
| V | 51 | 72 | 3 | He | 49.482 | ug/l | 64549.37 |
| Cr | 52 | 72 | 1 | NO GAS | 49.762 | ug/l | 604239.86 |
| Cr | 52 | 72 | 3 | He | 48.760 | ug/l | 89569.19 |
| Cr | 53 | 72 | 1 | NO GAS | 56.842 | ug/l | 136481.03 |
| Mn | 55 | 72 | 1 | NO GAS | 51.418 | ug/l | 920623.16 |
| Mn | 55 | 72 | 3 | He | 49.726 | ug/l | 42948.44 |
| Fe | 56 | 72 | 2 | H2 | 1159.729 | ug/l | 1329085.85 |
| Fe | 56 | 72 | 3 | He | 1229.257 | ug/l | 2107282.64 |
| Co | 59 | 72 | 1 | NO GAS | 50.447 | ug/l | 796732.62 |
| Ni | 60 | 72 | 1 | NO GAS | 51.103 | ug/l | 179533.78 |
| Ni | 60 | 72 | 3 | He | 49.731 | ug/l | 57191.59 |
| Ni | 62 | 72 | 1 | NO GAS | 51.518 | ug/l | 27971.41 |
| Cu | 63 | 72 | 1 | NO GAS | 50.867 | ug/l | 453206.89 |
| Cu | 63 | 72 | 3 | He | 50.022 | ug/l | 170910.11 |
| Cu | 65 | 72 | 1 | NO GAS | 50.069 | ug/l | 222833.75 |
| Zn | 66 | 72 | 1 | NO GAS | 50.376 | ug/l | 147620.92 |
| Zn | 66 | 72 | 3 | He | 50.094 | ug/l | 24787.34 |
| As | 75 | 72 | 1 | NO GAS | 50.512 | ug/l | 161686.78 |
| As | 75 | 72 | 3 | He | 49.393 | ug/l | 15548.46 |
| Se | 78 | 72 | 2 | H2 | 47.153 | ug/l | 5178.45 |
| Br | 79 | 72 | 1 | NO GAS | 0.338 | ug/l | 66949.26 |
| Br | 79 | 72 | 2 | H2 | 0.088 | ug/l | 9447.42 |
| Se | 82 | 72 | 1 | NO GAS | 50.902 | ug/l | 13763.58 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 18140.81 |
| Sr | 88 | 72 | 1 | NO GAS | 50.791 | ug/l | 1848846.49 |
| Sr | 88 | 72 | 3 | He | 49.679 | ug/l | 79076.52 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 49.012 | ug/l | 391709.11 |
| Mo | 95 | 72 | 3 | He | 49.172 | ug/l | 133539.43 |
| Mo | 98 | 72 | 1 | NO GAS | 48.766 | ug/l | 667004.94 |
| Ag | 107 | 72 | 1 | NO GAS | 20.579 | ug/l | 464508.87 |
| Ag | 109 | 72 | 1 | NO GAS | 20.159 | ug/l | 448326.55 |
| Cd | 111 | 159 | 1 | NO GAS | 50.963 | ug/l | 276233.54 |
| Cd | 111 | 159 | 3 | He | 50.085 | ug/l | 68463.05 |
| Cd | 114 | 159 | 1 | NO GAS | 49.706 | ug/l | 617846.98 |
| Cd | 114 | 159 | 3 | He | 49.519 | ug/l | 175549.09 |
| Sn | 118 | 159 | 1 | NO GAS | 48.328 | ug/l | 785361.96 |
| Sn | 118 | 159 | 3 | He | 48.019 | ug/l | 122550.80 |
| Sb | 121 | 159 | 1 | NO GAS | 49.599 | ug/l | 1085598.81 |
| Sb | 121 | 159 | 3 | He | 49.592 | ug/l | 160024.29 |
| Sb | 123 | 159 | 1 | NO GAS | 50.645 | ug/l | 863958.81 |
| Sb | 123 | 159 | 3 | He | 48.601 | ug/l | 129822.28 |
| Ba | 135 | 159 | 1 | NO GAS | 49.591 | ug/l | 236025.42 |
| Ba | 137 | 159 | 1 | NO GAS | 48.354 | ug/l | 406525.19 |
| La | 139 | 175 | 1 | NO GAS | 46.819 | ug/l | 3766364.23 |
| La | 139 | 175 | 3 | He | 47.503 | ug/l | 848884.24 |
| Ce | 140 | 175 | 1 | NO GAS | 47.257 | ug/l | 3726770.83 |
| Ce | 140 | 175 | 3 | He | 48.496 | ug/l | 1101728.25 |
| Hg | 201 | 175 | 1 | NO GAS | 0.960 | ug/l | 3981.73 |
| Hg | 202 | 175 | 1 | NO GAS | 0.970 | ug/l | 9139.59 |
| Hg | 202 | 175 | 3 | He | 0.978 | ug/l | 6686.81 |
| Tl | 203 | 175 | 3 | He | 49.110 | ug/l | 687375.91 |
| Tl | 205 | 175 | 1 | NO GAS | 49.266 | ug/l | 3040418.39 |
| Tl | 205 | 175 | 3 | He | 50.038 | ug/l | 1660066.77 |
| [Pb] | 206 | 175 | 1 | NO GAS | 49.005 | ug/l | 1044691.19 |
| [Pb] | 207 | 175 | 1 | NO GAS | 47.810 | ug/l | 896386.62 |
| Pb | 208 | 175 | 1 | NO GAS | 48.625 | ug/l | 4146515.59 |
| Th | 232 | 175 | 3 | He | 49.667 | ug/l | 2483195.76 |
| U | 238 | 175 | 1 | NO GAS | 49.805 | ug/l | 4935120.43 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1968490.27 | 105.5 |
| Sc | 45 | 2 | H2 | 93349.92 | 113.0 |
| Sc | 45 | 3 | He | 53705.24 | 106.8 |
| Ge | 72 | 1 | NO GAS | 862743.94 | 102.0 |
| Ge | 72 | 2 | H2 | 127568.82 | 107.6 |
| Ge | 72 | 3 | He | 80304.58 | 106.4 |
| Tb | 159 | 1 | NO GAS | 18236644.96 | 99.8 |
| Tb | 159 | 3 | He | 6842968.61 | 97.0 |
| Ho | 165 | 1 | NO GAS | 17143160.58 | 101.0 |
| Ho | 165 | 3 | He | 6601981.02 | 99.0 |
| Lu | 175 | 1 | NO GAS | 18979730.94 | 100.1 |
| Lu | 175 | 3 | He | 4237061.65 | 101.8 |

ICPMS206-B Analytical Data

Sample Name 100 PPB STD
File Name 034CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 22:11:40
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 1177.920 | ug/l | 695109.84 |
| Be | 9 | 45 | 1 | NO GAS | 100.412 | ug/l | 29851.32 |
| B | 11 | 45 | 1 | NO GAS | 101.127 | ug/l | 22416.00 |
| Na | 23 | 45 | 3 | He | 25113.127 | ug/l | 2451385.92 |
| Mg | 24 | 45 | 3 | He | 25406.833 | ug/l | 1266941.79 |
| Al | 27 | 45 | 1 | NO GAS | 101.235 | ug/l | 317171.03 |
| Si | 28 | 45 | 2 | H2 | 403.412 | ug/l | 8514.45 |
| K | 39 | 72 | 3 | He | 24664.680 | ug/l | 1089567.74 |
| Ca | 40 | 72 | 2 | H2 | 26655.155 | ug/l | 5349149.08 |
| Ti | 47 | 72 | 1 | NO GAS | 100.853 | ug/l | 86388.56 |
| V | 51 | 72 | 1 | NO GAS | 101.544 | ug/l | 1287369.17 |
| V | 51 | 72 | 3 | He | 100.224 | ug/l | 132916.55 |
| Cr | 52 | 72 | 1 | NO GAS | 100.132 | ug/l | 1216072.12 |
| Cr | 52 | 72 | 3 | He | 100.647 | ug/l | 187948.29 |
| Cr | 53 | 72 | 1 | NO GAS | 96.302 | ug/l | 201201.99 |
| Mn | 55 | 72 | 1 | NO GAS | 99.267 | ug/l | 1791371.05 |
| Mn | 55 | 72 | 3 | He | 100.090 | ug/l | 87936.16 |
| Fe | 56 | 72 | 2 | H2 | 2528.140 | ug/l | 2803486.34 |
| Fe | 56 | 72 | 3 | He | 2440.470 | ug/l | 4255076.90 |
| Co | 59 | 72 | 1 | NO GAS | 99.728 | ug/l | 1586745.27 |
| Ni | 60 | 72 | 1 | NO GAS | 99.392 | ug/l | 352183.29 |
| Ni | 60 | 72 | 3 | He | 100.079 | ug/l | 117066.10 |
| Ni | 62 | 72 | 1 | NO GAS | 99.155 | ug/l | 54033.43 |
| Cu | 63 | 72 | 1 | NO GAS | 99.499 | ug/l | 893125.13 |
| Cu | 63 | 72 | 3 | He | 99.924 | ug/l | 347139.46 |
| Cu | 65 | 72 | 1 | NO GAS | 99.918 | ug/l | 448178.65 |
| Zn | 66 | 72 | 1 | NO GAS | 99.793 | ug/l | 294292.96 |
| Zn | 66 | 72 | 3 | He | 99.896 | ug/l | 50191.82 |
| As | 75 | 72 | 1 | NO GAS | 99.714 | ug/l | 318347.29 |
| As | 75 | 72 | 3 | He | 100.270 | ug/l | 32106.65 |
| Se | 78 | 72 | 2 | H2 | 101.389 | ug/l | 10765.02 |
| Br | 79 | 72 | 1 | NO GAS | 0.429 | ug/l | 68091.97 |
| Br | 79 | 72 | 2 | H2 | 0.790 | ug/l | 9803.56 |
| Se | 82 | 72 | 1 | NO GAS | 99.395 | ug/l | 26845.31 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 29431.34 |
| Sr | 88 | 72 | 1 | NO GAS | 99.573 | ug/l | 3653296.99 |
| Sr | 88 | 72 | 3 | He | 100.116 | ug/l | 161875.83 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 100.469 | ug/l | 809217.04 |
| Mo | 95 | 72 | 3 | He | 100.363 | ug/l | 277332.08 |
| Mo | 98 | 72 | 1 | NO GAS | 100.606 | ug/l | 1386610.72 |
| Ag | 107 | 72 | 1 | NO GAS | 39.680 | ug/l | 901524.22 |
| Ag | 109 | 72 | 1 | NO GAS | 39.897 | ug/l | 892445.25 |
| Cd | 111 | 159 | 1 | NO GAS | 99.493 | ug/l | 540763.00 |
| Cd | 111 | 159 | 3 | He | 99.992 | ug/l | 136778.89 |
| Cd | 114 | 159 | 1 | NO GAS | 100.080 | ug/l | 1245274.71 |
| Cd | 114 | 159 | 3 | He | 100.248 | ug/l | 355718.01 |
| Sn | 118 | 159 | 1 | NO GAS | 101.079 | ug/l | 1596763.76 |
| Sn | 118 | 159 | 3 | He | 101.250 | ug/l | 251870.37 |
| Sb | 121 | 159 | 1 | NO GAS | 100.215 | ug/l | 2202168.58 |
| Sb | 121 | 159 | 3 | He | 100.272 | ug/l | 323846.52 |
| Sb | 123 | 159 | 1 | NO GAS | 99.680 | ug/l | 1704450.01 |
| Sb | 123 | 159 | 3 | He | 100.716 | ug/l | 269271.97 |
| Ba | 135 | 159 | 1 | NO GAS | 100.216 | ug/l | 477841.72 |
| Ba | 137 | 159 | 1 | NO GAS | 100.829 | ug/l | 848340.93 |
| La | 139 | 175 | 1 | NO GAS | 101.604 | ug/l | 7856290.70 |
| La | 139 | 175 | 3 | He | 101.203 | ug/l | 1761922.97 |
| Ce | 140 | 175 | 1 | NO GAS | 101.388 | ug/l | 7687049.23 |
| Ce | 140 | 175 | 3 | He | 100.714 | ug/l | 2227787.16 |
| Hg | 201 | 175 | 1 | NO GAS | 2.021 | ug/l | 8049.53 |
| Hg | 202 | 175 | 1 | NO GAS | 2.015 | ug/l | 18185.92 |
| Hg | 202 | 175 | 3 | He | 2.011 | ug/l | 13373.19 |
| Tl | 203 | 175 | 3 | He | 100.413 | ug/l | 1369146.39 |
| Tl | 205 | 175 | 1 | NO GAS | 100.348 | ug/l | 5950839.98 |
| Tl | 205 | 175 | 3 | He | 99.879 | ug/l | 3229377.98 |
| [Pb] | 206 | 175 | 1 | NO GAS | 100.481 | ug/l | 2058486.60 |
| [Pb] | 207 | 175 | 1 | NO GAS | 101.094 | ug/l | 1822185.60 |
| Pb | 208 | 175 | 1 | NO GAS | 100.673 | ug/l | 8252555.33 |
| Th | 232 | 175 | 3 | He | 100.175 | ug/l | 4875994.14 |
| U | 238 | 175 | 1 | NO GAS | 100.117 | ug/l | 9540652.06 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1974193.67 | 105.8 |
| Sc | 45 | 2 | H2 | 90908.97 | 110.1 |
| Sc | 45 | 3 | He | 54980.30 | 109.3 |
| Ge | 72 | 1 | NO GAS | 868253.57 | 102.6 |
| Ge | 72 | 2 | H2 | 119937.45 | 101.2 |
| Ge | 72 | 3 | He | 81697.32 | 108.2 |
| Tb | 159 | 1 | NO GAS | 18163901.38 | 99.4 |
| Tb | 159 | 3 | He | 6849415.95 | 97.0 |
| Ho | 165 | 1 | NO GAS | 17025001.70 | 100.3 |
| Ho | 165 | 3 | He | 6655643.95 | 99.8 |
| Lu | 175 | 1 | NO GAS | 18223875.53 | 96.1 |
| Lu | 175 | 3 | He | 4129636.89 | 99.2 |

ICPMS206-B Analytical Data

Sample Name 1000 PPB STD
File Name 035CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 22:17:24
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 2557.710 | ug/l | 1481995.49 |
| Be | 9 | 45 | 1 | NO GAS | 972.007 | ug/l | 292077.64 |
| B | 11 | 45 | 1 | NO GAS | 945.271 | ug/l | 210425.69 |
| Na | 23 | 45 | 3 | He | 50064.622 | ug/l | 4610801.77 |
| Mg | 24 | 45 | 3 | He | 49956.613 | ug/l | 2352638.64 |
| Al | 27 | 45 | 1 | NO GAS | 939.624 | ug/l | 2971298.01 |
| Si | 28 | 45 | 2 | H2 | 2.293 | ug/l | 66.66 |
| K | 39 | 72 | 3 | He | 50345.844 | ug/l | 2093185.14 |
| Ca | 40 | 72 | 2 | H2 | 49204.777 | ug/l | 9959193.00 |
| Ti | 47 | 72 | 1 | NO GAS | 5.898 | ug/l | 4926.67 |
| V | 51 | 72 | 1 | NO GAS | 1084.466 | ug/l | 13405754.74 |
| V | 51 | 72 | 3 | He | 1078.354 | ug/l | 1347739.72 |
| Cr | 52 | 72 | 1 | NO GAS | 1062.004 | ug/l | 12421794.02 |
| Cr | 52 | 72 | 3 | He | 1056.052 | ug/l | 1856579.95 |
| Cr | 53 | 72 | 1 | NO GAS | 953.195 | ug/l | 1529958.66 |
| Mn | 55 | 72 | 1 | NO GAS | 1044.358 | ug/l | 18279414.97 |
| Mn | 55 | 72 | 3 | He | 1053.228 | ug/l | 871946.80 |
| Fe | 56 | 72 | 2 | H2 | 6062.186 | ug/l | 6778809.85 |
| Fe | 56 | 72 | 3 | He | 6085.073 | ug/l | 10000970.76 |
| Co | 59 | 72 | 1 | NO GAS | 1026.638 | ug/l | 15848731.70 |
| Ni | 60 | 72 | 1 | NO GAS | 996.351 | ug/l | 3424739.05 |
| Ni | 60 | 72 | 3 | He | 1038.632 | ug/l | 1145632.90 |
| Ni | 62 | 72 | 1 | NO GAS | 1004.863 | ug/l | 528696.83 |
| Cu | 63 | 72 | 1 | NO GAS | 955.766 | ug/l | 8318686.07 |
| Cu | 63 | 72 | 3 | He | 1007.497 | ug/l | 3300231.53 |
| Cu | 65 | 72 | 1 | NO GAS | 946.994 | ug/l | 4118243.51 |
| Zn | 66 | 72 | 1 | NO GAS | 972.342 | ug/l | 2776740.84 |
| Zn | 66 | 72 | 3 | He | 1019.360 | ug/l | 481525.93 |
| As | 75 | 72 | 1 | NO GAS | 969.134 | ug/l | 2975263.89 |
| As | 75 | 72 | 3 | He | 1052.935 | ug/l | 317869.78 |
| Se | 78 | 72 | 2 | H2 | 964.540 | ug/l | 103189.17 |
| Br | 79 | 72 | 1 | NO GAS | 1.049 | ug/l | 70066.07 |
| Br | 79 | 72 | 2 | H2 | 2.493 | ug/l | 11461.37 |
| Se | 82 | 72 | 1 | NO GAS | 991.176 | ug/l | 258289.82 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 218875.09 |
| Sr | 88 | 72 | 1 | NO GAS | 1022.385 | ug/l | 36391345.75 |
| Sr | 88 | 72 | 3 | He | 1060.586 | ug/l | 1611412.55 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 0.060 | ug/l | 546.68 |
| Mo | 95 | 72 | 3 | He | 0.047 | ug/l | 156.67 |
| Mo | 98 | 72 | 1 | NO GAS | 0.071 | ug/l | 1100.83 |
| Ag | 107 | 72 | 1 | NO GAS | 368.150 | ug/l | 8109684.46 |
| Ag | 109 | 72 | 1 | NO GAS | 360.313 | ug/l | 7810660.44 |
| Cd | 111 | 159 | 1 | NO GAS | 955.975 | ug/l | 5094140.13 |
| Cd | 111 | 159 | 3 | He | 1030.265 | ug/l | 1314244.87 |
| Cd | 114 | 159 | 1 | NO GAS | 979.062 | ug/l | 11943790.38 |
| Cd | 114 | 159 | 3 | He | 1019.112 | ug/l | 3371579.26 |
| Sn | 118 | 159 | 1 | NO GAS | -2.450 | ug/l | 3693.12 |
| Sn | 118 | 159 | 3 | He | -2.227 | ug/l | 625.57 |
| Sb | 121 | 159 | 1 | NO GAS | 0.134 | ug/l | 3055.88 |
| Sb | 121 | 159 | 3 | He | 0.102 | ug/l | 335.56 |
| Sb | 123 | 159 | 1 | NO GAS | 0.148 | ug/l | 2643.57 |
| Sb | 123 | 159 | 3 | He | 0.110 | ug/l | 295.56 |
| Ba | 135 | 159 | 1 | NO GAS | 968.868 | ug/l | 4529106.02 |
| Ba | 137 | 159 | 1 | NO GAS | 952.262 | ug/l | 7855709.56 |
| La | 139 | 175 | 1 | NO GAS | 0.012 | ug/l | 961.02 |
| La | 139 | 175 | 3 | He | 0.008 | ug/l | 130.13 |
| Ce | 140 | 175 | 1 | NO GAS | 0.022 | ug/l | 1728.54 |
| Ce | 140 | 175 | 3 | He | 0.028 | ug/l | 593.96 |
| Hg | 201 | 175 | 1 | NO GAS | 0.011 | ug/l | 55.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.015 | ug/l | 202.96 |
| Hg | 202 | 175 | 3 | He | 0.012 | ug/l | 95.31 |
| Tl | 203 | 175 | 3 | He | 1055.843 | ug/l | 13293744.48 |
| Tl | 205 | 175 | 1 | NO GAS | 983.666 | ug/l | 57622814.70 |
| Tl | 205 | 175 | 3 | He | 1056.557 | ug/l | 31536648.62 |
| [Pb] | 206 | 175 | 1 | NO GAS | 950.583 | ug/l | 19235519.99 |
| [Pb] | 207 | 175 | 1 | NO GAS | 936.594 | ug/l | 16674551.97 |
| Pb | 208 | 175 | 1 | NO GAS | 947.991 | ug/l | 76760109.13 |
| Th | 232 | 175 | 3 | He | 1072.841 | ug/l | 48222717.19 |
| U | 238 | 175 | 1 | NO GAS | 985.936 | ug/l | 92804104.76 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1996029.05 | 107.0 |
| Sc | 45 | 2 | H2 | 88039.72 | 106.6 |
| Sc | 45 | 3 | He | 52171.66 | 103.7 |
| Ge | 72 | 1 | NO GAS | 842499.67 | 99.6 |
| Ge | 72 | 2 | H2 | 120895.42 | 102.0 |
| Ge | 72 | 3 | He | 77424.33 | 102.6 |
| Tb | 159 | 1 | NO GAS | 17832067.27 | 97.6 |
| Tb | 159 | 3 | He | 6401799.49 | 90.7 |
| Ho | 165 | 1 | NO GAS | 16753876.00 | 98.7 |
| Ho | 165 | 3 | He | 6056344.05 | 90.8 |
| Lu | 175 | 1 | NO GAS | 18001607.64 | 94.9 |
| Lu | 175 | 3 | He | 3824036.77 | 91.9 |

ICPMS206-B Analytical Data

Sample Name 100 ppb Bromine
File Name 036CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 22:22:59
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 4.467 | ug/l | 4381.02 |
| Be | 9 | 45 | 1 | NO GAS | 0.138 | ug/l | 46.32 |
| B | 11 | 45 | 1 | NO GAS | 5.425 | ug/l | 1341.79 |
| Na | 23 | 45 | 3 | He | 56.569 | ug/l | 13090.55 |
| Mg | 24 | 45 | 3 | He | 4.370 | ug/l | 232.87 |
| Al | 27 | 45 | 1 | NO GAS | 8.329 | ug/l | 26249.07 |
| Si | 28 | 45 | 2 | H2 | 0.370 | ug/l | 27.99 |
| K | 39 | 72 | 3 | He | 505.702 | ug/l | 25288.89 |
| Ca | 40 | 72 | 2 | H2 | 8.508 | ug/l | 2385.67 |
| Ti | 47 | 72 | 1 | NO GAS | 0.058 | ug/l | 73.30 |
| V | 51 | 72 | 1 | NO GAS | -0.235 | ug/l | -10382.31 |
| V | 51 | 72 | 3 | He | 0.125 | ug/l | 256.67 |
| Cr | 52 | 72 | 1 | NO GAS | 0.110 | ug/l | 11135.02 |
| Cr | 52 | 72 | 3 | He | 0.149 | ug/l | 429.16 |
| Cr | 53 | 72 | 1 | NO GAS | 1.265 | ug/l | 48248.66 |
| Mn | 55 | 72 | 1 | NO GAS | 0.117 | ug/l | 2818.01 |
| Mn | 55 | 72 | 3 | He | 0.095 | ug/l | 89.34 |
| Fe | 56 | 72 | 2 | H2 | 1.135 | ug/l | 1685.93 |
| Fe | 56 | 72 | 3 | He | 1.085 | ug/l | 2538.96 |
| Co | 59 | 72 | 1 | NO GAS | 0.095 | ug/l | 1566.99 |
| Ni | 60 | 72 | 1 | NO GAS | 0.181 | ug/l | 701.97 |
| Ni | 60 | 72 | 3 | He | 0.167 | ug/l | 225.56 |
| Ni | 62 | 72 | 1 | NO GAS | 0.289 | ug/l | 439.14 |
| Cu | 63 | 72 | 1 | NO GAS | 0.167 | ug/l | 1967.07 |
| Cu | 63 | 72 | 3 | He | 0.149 | ug/l | 735.87 |
| Cu | 65 | 72 | 1 | NO GAS | 0.173 | ug/l | 1013.17 |
| Zn | 66 | 72 | 1 | NO GAS | 0.600 | ug/l | 2252.24 |
| Zn | 66 | 72 | 3 | He | 0.607 | ug/l | 404.45 |
| As | 75 | 72 | 1 | NO GAS | 1.021 | ug/l | 6392.04 |
| As | 75 | 72 | 3 | He | 0.162 | ug/l | 57.66 |
| Se | 78 | 72 | 2 | H2 | 0.254 | ug/l | 30.66 |
| Br | 79 | 72 | 1 | NO GAS | 100.000 | ug/l | 720236.92 |
| Br | 79 | 72 | 2 | H2 | 100.000 | ug/l | 107446.53 |
| Se | 82 | 72 | 1 | NO GAS | 4.903 | ug/l | 1479.24 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7929.57 |
| Sr | 88 | 72 | 1 | NO GAS | 0.100 | ug/l | 3995.95 |
| Sr | 88 | 72 | 3 | He | 0.076 | ug/l | 384.45 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.020 | ug/l | 237.78 |
| Mo | 95 | 72 | 3 | He | 0.011 | ug/l | 70.00 |
| Mo | 98 | 72 | 1 | NO GAS | 0.011 | ug/l | 305.08 |
| Ag | 107 | 72 | 1 | NO GAS | 0.297 | ug/l | 8445.22 |
| Ag | 109 | 72 | 1 | NO GAS | 0.297 | ug/l | 8287.85 |
| Cd | 111 | 159 | 1 | NO GAS | 0.135 | ug/l | 675.29 |
| Cd | 111 | 159 | 3 | He | 0.094 | ug/l | 133.97 |
| Cd | 114 | 159 | 1 | NO GAS | 0.117 | ug/l | 1178.08 |
| Cd | 114 | 159 | 3 | He | 0.108 | ug/l | 360.65 |
| Sn | 118 | 159 | 1 | NO GAS | -2.370 | ug/l | 4841.17 |
| Sn | 118 | 159 | 3 | He | -2.198 | ug/l | 763.36 |
| Sb | 121 | 159 | 1 | NO GAS | 0.028 | ug/l | 752.25 |
| Sb | 121 | 159 | 3 | He | 0.029 | ug/l | 130.00 |
| Sb | 123 | 159 | 1 | NO GAS | 0.027 | ug/l | 597.80 |
| Sb | 123 | 159 | 3 | He | 0.030 | ug/l | 106.67 |
| Ba | 135 | 159 | 1 | NO GAS | 0.125 | ug/l | 592.17 |
| Ba | 137 | 159 | 1 | NO GAS | 0.119 | ug/l | 1014.70 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 76.74 |
| La | 139 | 175 | 3 | He | 0.003 | ug/l | 50.05 |
| Ce | 140 | 175 | 1 | NO GAS | 0.003 | ug/l | 273.62 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 33.37 |
| Hg | 201 | 175 | 1 | NO GAS | 0.004 | ug/l | 29.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.004 | ug/l | 109.65 |
| Hg | 202 | 175 | 3 | He | 0.005 | ug/l | 58.32 |
| Tl | 203 | 175 | 3 | He | 0.128 | ug/l | 1905.75 |
| Tl | 205 | 175 | 1 | NO GAS | 0.127 | ug/l | 8047.76 |
| Tl | 205 | 175 | 3 | He | 0.127 | ug/l | 4501.13 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.105 | ug/l | 2273.53 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.106 | ug/l | 1999.04 |
| Pb | 208 | 175 | 1 | NO GAS | 0.107 | ug/l | 9221.20 |
| Th | 232 | 175 | 3 | He | 0.321 | ug/l | 17182.57 |
| U | 238 | 175 | 1 | NO GAS | 0.131 | ug/l | 12988.45 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1938703.53 | 103.9 |
| Sc | 45 | 2 | H2 | 89738.92 | 108.7 |
| Sc | 45 | 3 | He | 55220.33 | 109.8 |
| Ge | 72 | 1 | NO GAS | 861709.69 | 101.9 |
| Ge | 72 | 2 | H2 | 125615.01 | 106.0 |
| Ge | 72 | 3 | He | 82100.36 | 108.8 |
| Tb | 159 | 1 | NO GAS | 17633509.14 | 96.5 |
| Tb | 159 | 3 | He | 7075535.44 | 100.2 |
| Ho | 165 | 1 | NO GAS | 16754243.24 | 98.7 |
| Ho | 165 | 3 | He | 6900977.30 | 103.5 |
| Lu | 175 | 1 | NO GAS | 18729936.36 | 98.8 |
| Lu | 175 | 3 | He | 4284266.51 | 103.0 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 037BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 22:29:02
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 1.809 | ug/l | 2865.01 |
| Be | 9 | 45 | 1 | NO GAS | 0.033 | ug/l | 15.33 |
| B | 11 | 45 | 1 | NO GAS | 1.853 | ug/l | 566.56 |
| Na | 23 | 45 | 3 | He | 14.924 | ug/l | 9037.97 |
| Mg | 24 | 45 | 3 | He | 1.700 | ug/l | 99.80 |
| Al | 27 | 45 | 1 | NO GAS | 0.149 | ug/l | 1113.38 |
| Si | 28 | 45 | 2 | H2 | -0.066 | ug/l | 19.33 |
| K | 39 | 72 | 3 | He | 2.060 | ug/l | 3009.18 |
| Ca | 40 | 72 | 2 | H2 | 1.821 | ug/l | 987.88 |
| Ti | 47 | 72 | 1 | NO GAS | 0.013 | ug/l | 34.98 |
| V | 51 | 72 | 1 | NO GAS | -0.414 | ug/l | -12578.53 |
| V | 51 | 72 | 3 | He | 0.030 | ug/l | 131.11 |
| Cr | 52 | 72 | 1 | NO GAS | -0.071 | ug/l | 8901.42 |
| Cr | 52 | 72 | 3 | He | -0.010 | ug/l | 129.74 |
| Cr | 53 | 72 | 1 | NO GAS | -2.037 | ug/l | 42661.49 |
| Mn | 55 | 72 | 1 | NO GAS | 0.026 | ug/l | 1187.70 |
| Mn | 55 | 72 | 3 | He | 0.017 | ug/l | 20.67 |
| Fe | 56 | 72 | 2 | H2 | 0.354 | ug/l | 784.64 |
| Fe | 56 | 72 | 3 | He | 0.370 | ug/l | 1291.09 |
| Co | 59 | 72 | 1 | NO GAS | 0.019 | ug/l | 369.27 |
| Ni | 60 | 72 | 1 | NO GAS | 0.017 | ug/l | 123.09 |
| Ni | 60 | 72 | 3 | He | 0.003 | ug/l | 33.33 |
| Ni | 62 | 72 | 1 | NO GAS | 0.315 | ug/l | 449.12 |
| Cu | 63 | 72 | 1 | NO GAS | 0.005 | ug/l | 518.57 |
| Cu | 63 | 72 | 3 | He | -0.007 | ug/l | 190.63 |
| Cu | 65 | 72 | 1 | NO GAS | 0.005 | ug/l | 263.29 |
| Zn | 66 | 72 | 1 | NO GAS | -0.008 | ug/l | 472.34 |
| Zn | 66 | 72 | 3 | He | -0.052 | ug/l | 73.33 |
| As | 75 | 72 | 1 | NO GAS | 0.268 | ug/l | 3998.59 |
| As | 75 | 72 | 3 | He | 0.046 | ug/l | 20.33 |
| Se | 78 | 72 | 2 | H2 | 0.082 | ug/l | 11.67 |
| Br | 79 | 72 | 1 | NO GAS | 0.532 | ug/l | 67677.32 |
| Br | 79 | 72 | 2 | H2 | 0.514 | ug/l | 10043.29 |
| Se | 82 | 72 | 1 | NO GAS | 1.570 | ug/l | 588.21 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8069.40 |
| Sr | 88 | 72 | 1 | NO GAS | 0.014 | ug/l | 868.31 |
| Sr | 88 | 72 | 3 | He | 0.007 | ug/l | 274.45 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.009 | ug/l | 150.00 |
| Mo | 95 | 72 | 3 | He | 0.010 | ug/l | 67.78 |
| Mo | 98 | 72 | 1 | NO GAS | 0.009 | ug/l | 281.81 |
| Ag | 107 | 72 | 1 | NO GAS | 0.021 | ug/l | 2199.05 |
| Ag | 109 | 72 | 1 | NO GAS | 0.020 | ug/l | 2146.39 |
| Cd | 111 | 159 | 1 | NO GAS | 0.011 | ug/l | 21.00 |
| Cd | 111 | 159 | 3 | He | 0.016 | ug/l | 24.66 |
| Cd | 114 | 159 | 1 | NO GAS | 0.019 | ug/l | -13.07 |
| Cd | 114 | 159 | 3 | He | 0.025 | ug/l | 57.18 |
| Sn | 118 | 159 | 1 | NO GAS | -2.526 | ug/l | 2521.89 |
| Sn | 118 | 159 | 3 | He | -2.356 | ug/l | 375.56 |
| Sb | 121 | 159 | 1 | NO GAS | 0.015 | ug/l | 483.34 |
| Sb | 121 | 159 | 3 | He | 0.014 | ug/l | 83.33 |
| Sb | 123 | 159 | 1 | NO GAS | 0.016 | ug/l | 418.90 |
| Sb | 123 | 159 | 3 | He | 0.012 | ug/l | 57.78 |
| Ba | 135 | 159 | 1 | NO GAS | 0.031 | ug/l | 156.36 |
| Ba | 137 | 159 | 1 | NO GAS | 0.020 | ug/l | 206.26 |
| La | 139 | 175 | 1 | NO GAS | 0.004 | ug/l | 430.45 |
| La | 139 | 175 | 3 | He | 0.004 | ug/l | 80.08 |
| Ce | 140 | 175 | 1 | NO GAS | 0.005 | ug/l | 437.12 |
| Ce | 140 | 175 | 3 | He | 0.004 | ug/l | 103.44 |
| Hg | 201 | 175 | 1 | NO GAS | 0.003 | ug/l | 25.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.002 | ug/l | 85.65 |
| Hg | 202 | 175 | 3 | He | 0.002 | ug/l | 40.32 |
| Tl | 203 | 175 | 3 | He | 0.028 | ug/l | 489.25 |
| Tl | 205 | 175 | 1 | NO GAS | 0.028 | ug/l | 2042.38 |
| Tl | 205 | 175 | 3 | He | 0.028 | ug/l | 1159.15 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.018 | ug/l | 432.23 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.019 | ug/l | 395.56 |
| Pb | 208 | 175 | 1 | NO GAS | 0.018 | ug/l | 1728.94 |
| Th | 232 | 175 | 3 | He | 0.063 | ug/l | 4179.10 |
| U | 238 | 175 | 1 | NO GAS | 0.022 | ug/l | 2256.39 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1929652.04 | 103.4 |
| Sc | 45 | 2 | H2 | 91315.81 | 110.6 |
| Sc | 45 | 3 | He | 55338.83 | 110.0 |
| Ge | 72 | 1 | NO GAS | 854660.10 | 101.0 |
| Ge | 72 | 2 | H2 | 126303.25 | 106.6 |
| Ge | 72 | 3 | He | 82496.87 | 109.3 |
| Tb | 159 | 1 | NO GAS | 17710519.06 | 97.0 |
| Tb | 159 | 3 | He | 7246745.08 | 102.7 |
| Ho | 165 | 1 | NO GAS | 16882247.69 | 99.5 |
| Ho | 165 | 3 | He | 6773835.84 | 101.6 |
| Lu | 175 | 1 | NO GAS | 18817451.37 | 99.2 |
| Lu | 175 | 3 | He | 4282865.84 | 102.9 |

ICPMS206-B Analytical Data

Sample Name 0.10 PPB STD
File Name 038CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 22:34:49
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----|
| Li | 7 | 165 | 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 | |
| Cr | 53 | 72 | 1 | NO GAS | | 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 | |
| Ni | 62 | 72 | 1 | NO GAS | | 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 | |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----|
| Mo | 95 | 72 | 1 | NO GAS | | ug/l | |
| Mo | 95 | 72 | 3 | He | | ug/l | |
| Mo | 98 | 72 | 1 | NO GAS | | ug/l | |
| Ag | 107 | 72 | 1 | NO GAS | | ug/l | |
| Ag | 109 | 72 | 1 | NO GAS | | ug/l | |
| Cd | 111 | 159 | 1 | NO GAS | | ug/l | |
| Cd | 111 | 159 | 3 | He | | ug/l | |
| Cd | 114 | 159 | 1 | NO GAS | | ug/l | |
| Cd | 114 | 159 | 3 | He | | ug/l | |
| Sn | 118 | 159 | 1 | NO GAS | | ug/l | |
| Sn | 118 | 159 | 3 | He | | ug/l | |
| Sb | 121 | 159 | 1 | NO GAS | | ug/l | |
| Sb | 121 | 159 | 3 | He | | ug/l | |
| Sb | 123 | 159 | 1 | NO GAS | | ug/l | |
| Sb | 123 | 159 | 3 | He | | ug/l | |
| Ba | 135 | 159 | 1 | NO GAS | | ug/l | |
| Ba | 137 | 159 | 1 | NO GAS | | ug/l | |
| La | 139 | 175 | 1 | NO GAS | | ug/l | |
| La | 139 | 175 | 3 | He | | ug/l | |
| Ce | 140 | 175 | 1 | NO GAS | | ug/l | |
| Ce | 140 | 175 | 3 | He | | ug/l | |
| Hg | 201 | 175 | 1 | NO GAS | | ug/l | |
| Hg | 202 | 175 | 1 | NO GAS | | ug/l | |
| Hg | 202 | 175 | 3 | He | | ug/l | |
| Tl | 203 | 175 | 3 | He | | ug/l | |
| Tl | 205 | 175 | 1 | NO GAS | | ug/l | |
| Tl | 205 | 175 | 3 | He | | ug/l | |
| [Pb] | 206 | 175 | 1 | NO GAS | | ug/l | |
| [Pb] | 207 | 175 | 1 | NO GAS | | ug/l | |
| Pb | 208 | 175 | 1 | NO GAS | | ug/l | |
| Th | 232 | 175 | 3 | He | | ug/l | |
| U | 238 | 175 | 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 | | |
| 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 | | |

ICPMS206-B Analytical Data

Sample Name 0.10 PPB STD
File Name 039CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 22:40:39
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 2.137 | ug/l | 3184.33 |
| Be | 9 | 45 | 1 | NO GAS | 0.104 | ug/l | 37.99 |
| B | 11 | 45 | 1 | NO GAS | 0.917 | ug/l | 387.93 |
| Na | 23 | 45 | 3 | He | 28.077 | ug/l | 10190.84 |
| Mg | 24 | 45 | 3 | He | 30.157 | ug/l | 1510.42 |
| Al | 27 | 45 | 1 | NO GAS | 0.285 | ug/l | 1628.98 |
| Si | 28 | 45 | 2 | H2 | 0.930 | ug/l | 38.66 |
| K | 39 | 72 | 3 | He | 30.697 | ug/l | 4180.54 |
| Ca | 40 | 72 | 2 | H2 | 31.871 | ug/l | 7044.70 |
| Ti | 47 | 72 | 1 | NO GAS | 0.155 | ug/l | 159.92 |
| V | 51 | 72 | 1 | NO GAS | -0.050 | ug/l | -8452.23 |
| V | 51 | 72 | 3 | He | 0.114 | ug/l | 237.78 |
| Cr | 52 | 72 | 1 | NO GAS | 0.041 | ug/l | 10609.05 |
| Cr | 52 | 72 | 3 | He | 0.136 | ug/l | 395.89 |
| Cr | 53 | 72 | 1 | NO GAS | -1.117 | ug/l | 45772.87 |
| Mn | 55 | 72 | 1 | NO GAS | 0.123 | ug/l | 3027.64 |
| Mn | 55 | 72 | 3 | He | 0.121 | ug/l | 110.01 |
| Fe | 56 | 72 | 2 | H2 | 3.092 | ug/l | 3826.91 |
| Fe | 56 | 72 | 3 | He | 3.146 | ug/l | 6026.46 |
| Co | 59 | 72 | 1 | NO GAS | 0.114 | ug/l | 1922.98 |
| Ni | 60 | 72 | 1 | NO GAS | 0.117 | ug/l | 492.37 |
| Ni | 60 | 72 | 3 | He | 0.091 | ug/l | 134.45 |
| Ni | 62 | 72 | 1 | NO GAS | 0.311 | ug/l | 465.76 |
| Cu | 63 | 72 | 1 | NO GAS | 0.127 | ug/l | 1656.43 |
| Cu | 63 | 72 | 3 | He | 0.123 | ug/l | 630.22 |
| Cu | 65 | 72 | 1 | NO GAS | 0.115 | ug/l | 779.87 |
| Zn | 66 | 72 | 1 | NO GAS | 0.164 | ug/l | 1007.94 |
| Zn | 66 | 72 | 3 | He | 0.147 | ug/l | 170.00 |
| As | 75 | 72 | 1 | NO GAS | -0.082 | ug/l | 3024.85 |
| As | 75 | 72 | 3 | He | 0.116 | ug/l | 41.99 |
| Se | 78 | 72 | 2 | H2 | 0.110 | ug/l | 14.33 |
| Br | 79 | 72 | 1 | NO GAS | -0.009 | ug/l | 66595.51 |
| Br | 79 | 72 | 2 | H2 | 0.343 | ug/l | 9490.69 |
| Se | 82 | 72 | 1 | NO GAS | 0.908 | ug/l | 428.51 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8089.31 |
| Sr | 88 | 72 | 1 | NO GAS | 0.120 | ug/l | 4854.47 |
| Sr | 88 | 72 | 3 | He | 0.131 | ug/l | 464.45 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.125 | ug/l | 1104.49 |
| Mo | 95 | 72 | 3 | He | 0.116 | ug/l | 353.34 |
| Mo | 98 | 72 | 1 | NO GAS | 0.112 | ug/l | 1732.89 |
| Ag | 107 | 72 | 1 | NO GAS | 0.046 | ug/l | 2871.02 |
| Ag | 109 | 72 | 1 | NO GAS | 0.047 | ug/l | 2837.70 |
| Cd | 111 | 159 | 1 | NO GAS | 0.101 | ug/l | 535.94 |
| Cd | 111 | 159 | 3 | He | 0.109 | ug/l | 150.64 |
| Cd | 114 | 159 | 1 | NO GAS | 0.106 | ug/l | 1128.60 |
| Cd | 114 | 159 | 3 | He | 0.143 | ug/l | 476.68 |
| Sn | 118 | 159 | 1 | NO GAS | -2.386 | ug/l | 4970.97 |
| Sn | 118 | 159 | 3 | He | -2.210 | ug/l | 712.24 |
| Sb | 121 | 159 | 1 | NO GAS | 0.117 | ug/l | 2856.95 |
| Sb | 121 | 159 | 3 | He | 0.120 | ug/l | 421.12 |
| Sb | 123 | 159 | 1 | NO GAS | 0.115 | ug/l | 2211.28 |
| Sb | 123 | 159 | 3 | He | 0.100 | ug/l | 291.12 |
| Ba | 135 | 159 | 1 | NO GAS | 0.105 | ug/l | 535.62 |
| Ba | 137 | 159 | 1 | NO GAS | 0.116 | ug/l | 1064.61 |
| La | 139 | 175 | 1 | NO GAS | 0.114 | ug/l | 9385.73 |
| La | 139 | 175 | 3 | He | 0.113 | ug/l | 2028.88 |
| Ce | 140 | 175 | 1 | NO GAS | 0.113 | ug/l | 9185.46 |
| Ce | 140 | 175 | 3 | He | 0.112 | ug/l | 2562.85 |
| Hg | 201 | 175 | 1 | NO GAS | 0.004 | ug/l | 29.33 |
| Hg | 202 | 175 | 1 | NO GAS | 0.002 | ug/l | 93.98 |
| Hg | 202 | 175 | 3 | He | 0.003 | ug/l | 44.32 |
| Tl | 203 | 175 | 3 | He | 0.121 | ug/l | 1797.76 |
| Tl | 205 | 175 | 1 | NO GAS | 0.115 | ug/l | 7504.16 |
| Tl | 205 | 175 | 3 | He | 0.118 | ug/l | 4171.09 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.113 | ug/l | 2516.90 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.110 | ug/l | 2156.84 |
| Pb | 208 | 175 | 1 | NO GAS | 0.113 | ug/l | 10022.51 |
| Th | 232 | 175 | 3 | He | 0.111 | ug/l | 6526.82 |
| U | 238 | 175 | 1 | NO GAS | 0.109 | ug/l | 11098.64 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2057414.54 | 110.3 |
| Sc | 45 | 2 | H2 | 87492.60 | 105.9 |
| Sc | 45 | 3 | He | 54613.84 | 108.6 |
| Ge | 72 | 1 | NO GAS | 888115.24 | 105.0 |
| Ge | 72 | 2 | H2 | 121297.02 | 102.3 |
| Ge | 72 | 3 | He | 80460.34 | 106.6 |
| Tb | 159 | 1 | NO GAS | 19038794.16 | 104.2 |
| Tb | 159 | 3 | He | 6871243.19 | 97.4 |
| Ho | 165 | 1 | NO GAS | 17622776.11 | 103.9 |
| Ho | 165 | 3 | He | 6828977.12 | 102.4 |
| Lu | 175 | 1 | NO GAS | 19330347.58 | 101.9 |
| Lu | 175 | 3 | He | 4255222.99 | 102.3 |

ICPMS206-B Analytical Data

Sample Name QCS
File Name 040_QCS.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 22:46:30
Sample Type QCS
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 47.201 | ug/l | 28961.73 |
| Be | 9 | 45 | 1 | NO GAS | 24.978 | ug/l | 7227.05 |
| B | 11 | 45 | 1 | NO GAS | 48.524 | ug/l | 10547.82 |
| Na | 23 | 45 | 3 | He | 2413.794 | ug/l | 233611.59 |
| Mg | 24 | 45 | 3 | He | 2295.493 | ug/l | 110356.08 |
| Al | 27 | 45 | 1 | NO GAS | 246.938 | ug/l | 751768.07 |
| Si | 28 | 45 | 2 | H2 | 502.551 | ug/l | 10052.99 |
| K | 39 | 72 | 3 | He | 2315.630 | ug/l | 103152.75 |
| Ca | 40 | 72 | 2 | H2 | 2453.452 | ug/l | 504734.40 |
| Ti | 47 | 72 | 1 | NO GAS | 47.244 | ug/l | 40919.44 |
| V | 51 | 72 | 1 | NO GAS | 53.148 | ug/l | 677380.47 |
| V | 51 | 72 | 3 | He | 49.522 | ug/l | 64628.86 |
| Cr | 52 | 72 | 1 | NO GAS | 50.171 | ug/l | 621567.99 |
| Cr | 52 | 72 | 3 | He | 49.496 | ug/l | 90957.10 |
| Cr | 53 | 72 | 1 | NO GAS | 43.148 | ug/l | 117223.73 |
| Mn | 55 | 72 | 1 | NO GAS | 244.977 | ug/l | 4473722.88 |
| Mn | 55 | 72 | 3 | He | 248.926 | ug/l | 215093.25 |
| Fe | 56 | 72 | 2 | H2 | 240.261 | ug/l | 273330.74 |
| Fe | 56 | 72 | 3 | He | 240.380 | ug/l | 412736.46 |
| Co | 59 | 72 | 1 | NO GAS | 50.972 | ug/l | 820803.64 |
| Ni | 60 | 72 | 1 | NO GAS | 52.140 | ug/l | 186639.19 |
| Ni | 60 | 72 | 3 | He | 50.670 | ug/l | 58304.16 |
| Ni | 62 | 72 | 1 | NO GAS | 52.679 | ug/l | 29141.19 |
| Cu | 63 | 72 | 1 | NO GAS | 52.211 | ug/l | 474309.81 |
| Cu | 63 | 72 | 3 | He | 52.558 | ug/l | 179674.62 |
| Cu | 65 | 72 | 1 | NO GAS | 52.137 | ug/l | 236614.34 |
| Zn | 66 | 72 | 1 | NO GAS | 52.597 | ug/l | 157170.75 |
| Zn | 66 | 72 | 3 | He | 51.826 | ug/l | 25660.94 |
| As | 75 | 72 | 1 | NO GAS | 49.988 | ug/l | 163057.01 |
| As | 75 | 72 | 3 | He | 50.407 | ug/l | 15874.03 |
| Se | 78 | 72 | 2 | H2 | 50.250 | ug/l | 5464.16 |
| Br | 79 | 72 | 1 | NO GAS | 1.011 | ug/l | 72732.05 |
| Br | 79 | 72 | 2 | H2 | 1.165 | ug/l | 10389.41 |
| Se | 82 | 72 | 1 | NO GAS | 52.553 | ug/l | 14436.39 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 18617.05 |
| Sr | 88 | 72 | 1 | NO GAS | 48.931 | ug/l | 1816417.85 |
| Sr | 88 | 72 | 3 | He | 50.426 | ug/l | 80312.03 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 49.052 | ug/l | 399498.68 |
| Mo | 95 | 72 | 3 | He | 50.219 | ug/l | 136458.31 |
| Mo | 98 | 72 | 1 | NO GAS | 48.388 | ug/l | 674826.03 |
| Ag | 107 | 72 | 1 | NO GAS | 26.299 | ug/l | 605191.64 |
| Ag | 109 | 72 | 1 | NO GAS | 26.147 | ug/l | 592313.11 |
| Cd | 111 | 159 | 1 | NO GAS | 26.226 | ug/l | 140583.41 |
| Cd | 111 | 159 | 3 | He | 25.554 | ug/l | 35941.38 |
| Cd | 114 | 159 | 1 | NO GAS | 26.495 | ug/l | 324662.37 |
| Cd | 114 | 159 | 3 | He | 24.724 | ug/l | 90154.00 |
| Sn | 118 | 159 | 1 | NO GAS | 51.416 | ug/l | 819822.37 |
| Sn | 118 | 159 | 3 | He | 48.181 | ug/l | 126511.17 |
| Sb | 121 | 159 | 1 | NO GAS | 52.352 | ug/l | 1133205.81 |
| Sb | 121 | 159 | 3 | He | 49.105 | ug/l | 163064.35 |
| Sb | 123 | 159 | 1 | NO GAS | 52.727 | ug/l | 888745.81 |
| Sb | 123 | 159 | 3 | He | 48.387 | ug/l | 132993.83 |
| Ba | 135 | 159 | 1 | NO GAS | 51.566 | ug/l | 242478.79 |
| Ba | 137 | 159 | 1 | NO GAS | 52.040 | ug/l | 431325.51 |
| La | 139 | 175 | 1 | NO GAS | 51.937 | ug/l | 3998511.29 |
| La | 139 | 175 | 3 | He | 49.153 | ug/l | 872629.90 |
| Ce | 140 | 175 | 1 | NO GAS | 52.727 | ug/l | 3981848.63 |
| Ce | 140 | 175 | 3 | He | 50.337 | ug/l | 1135775.46 |
| Hg | 201 | 175 | 1 | NO GAS | 1.026 | ug/l | 4076.07 |
| Hg | 202 | 175 | 1 | NO GAS | 1.037 | ug/l | 9350.69 |
| Hg | 202 | 175 | 3 | He | 0.978 | ug/l | 6643.13 |
| Tl | 203 | 175 | 3 | He | 50.137 | ug/l | 697040.49 |
| Tl | 205 | 175 | 1 | NO GAS | 55.315 | ug/l | 3265280.72 |
| Tl | 205 | 175 | 3 | He | 51.738 | ug/l | 1704844.43 |
| [Pb] | 206 | 175 | 1 | NO GAS | 54.122 | ug/l | 1104081.72 |
| [Pb] | 207 | 175 | 1 | NO GAS | 52.457 | ug/l | 942094.25 |
| Pb | 208 | 175 | 1 | NO GAS | 52.407 | ug/l | 4281414.36 |
| Th | 232 | 175 | 3 | He | 50.874 | ug/l | 2525147.22 |
| U | 238 | 175 | 1 | NO GAS | 53.499 | ug/l | 5082711.04 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1921023.96 | 102.9 |
| Sc | 45 | 2 | H2 | 86230.81 | 104.4 |
| Sc | 45 | 3 | He | 52967.00 | 105.3 |
| Ge | 72 | 1 | NO GAS | 879148.72 | 103.9 |
| Ge | 72 | 2 | H2 | 122785.15 | 103.6 |
| Ge | 72 | 3 | He | 80361.32 | 106.5 |
| Tb | 159 | 1 | NO GAS | 17901134.26 | 98.0 |
| Tb | 159 | 3 | He | 7041351.47 | 99.8 |
| Ho | 165 | 1 | NO GAS | 16652538.83 | 98.1 |
| Ho | 165 | 3 | He | 6696817.21 | 100.5 |
| Lu | 175 | 1 | NO GAS | 18158486.81 | 95.7 |
| Lu | 175 | 3 | He | 4207459.24 | 101.1 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 041_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 22:52:14
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 555.264 | ug/l | 317098.88 |
| Be | 9 | 45 | 1 | NO GAS | 49.642 | ug/l | 14844.53 |
| B | 11 | 45 | 1 | NO GAS | 47.652 | ug/l | 10730.60 |
| Na | 23 | 45 | 3 | He | 11945.422 | ug/l | 1252563.99 |
| Mg | 24 | 45 | 3 | He | 11743.325 | ug/l | 626956.30 |
| Al | 27 | 45 | 1 | NO GAS | 48.182 | ug/l | 151931.86 |
| Si | 28 | 45 | 2 | H2 | 198.646 | ug/l | 4515.05 |
| K | 39 | 72 | 3 | He | 12066.330 | ug/l | 558956.23 |
| Ca | 40 | 72 | 2 | H2 | 12606.686 | ug/l | 2742030.77 |
| Ti | 47 | 72 | 1 | NO GAS | 50.065 | ug/l | 42710.24 |
| V | 51 | 72 | 1 | NO GAS | 51.613 | ug/l | 645407.46 |
| V | 51 | 72 | 3 | He | 50.134 | ug/l | 69587.01 |
| Cr | 52 | 72 | 1 | NO GAS | 50.360 | ug/l | 612390.14 |
| Cr | 52 | 72 | 3 | He | 49.377 | ug/l | 96538.02 |
| Cr | 53 | 72 | 1 | NO GAS | 52.932 | ug/l | 131096.53 |
| Mn | 55 | 72 | 1 | NO GAS | 50.194 | ug/l | 901894.91 |
| Mn | 55 | 72 | 3 | He | 50.443 | ug/l | 46364.74 |
| Fe | 56 | 72 | 2 | H2 | 1252.365 | ug/l | 1506383.13 |
| Fe | 56 | 72 | 3 | He | 1242.462 | ug/l | 2265468.06 |
| Co | 59 | 72 | 1 | NO GAS | 51.278 | ug/l | 811310.68 |
| Ni | 60 | 72 | 1 | NO GAS | 52.055 | ug/l | 183997.19 |
| Ni | 60 | 72 | 3 | He | 49.450 | ug/l | 60518.38 |
| Ni | 62 | 72 | 1 | NO GAS | 53.206 | ug/l | 29021.20 |
| Cu | 63 | 72 | 1 | NO GAS | 51.279 | ug/l | 457630.24 |
| Cu | 63 | 72 | 3 | He | 50.539 | ug/l | 183754.24 |
| Cu | 65 | 72 | 1 | NO GAS | 51.766 | ug/l | 231407.76 |
| Zn | 66 | 72 | 1 | NO GAS | 49.504 | ug/l | 145745.94 |
| Zn | 66 | 72 | 3 | He | 49.632 | ug/l | 26139.32 |
| As | 75 | 72 | 1 | NO GAS | 51.408 | ug/l | 164728.79 |
| As | 75 | 72 | 3 | He | 49.820 | ug/l | 16688.65 |
| Se | 78 | 72 | 2 | H2 | 52.106 | ug/l | 5997.57 |
| Br | 79 | 72 | 1 | NO GAS | 0.478 | ug/l | 68179.17 |
| Br | 79 | 72 | 2 | H2 | 1.016 | ug/l | 10845.52 |
| Se | 82 | 72 | 1 | NO GAS | 50.828 | ug/l | 13701.13 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 18800.25 |
| Sr | 88 | 72 | 1 | NO GAS | 50.000 | ug/l | 1824330.39 |
| Sr | 88 | 72 | 3 | He | 49.718 | ug/l | 84210.67 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 50.799 | ug/l | 406873.60 |
| Mo | 95 | 72 | 3 | He | 48.712 | ug/l | 140821.24 |
| Mo | 98 | 72 | 1 | NO GAS | 49.447 | ug/l | 677413.09 |
| Ag | 107 | 72 | 1 | NO GAS | 20.439 | ug/l | 462046.86 |
| Ag | 109 | 72 | 1 | NO GAS | 20.448 | ug/l | 456303.80 |
| Cd | 111 | 159 | 1 | NO GAS | 53.101 | ug/l | 279734.91 |
| Cd | 111 | 159 | 3 | He | 51.004 | ug/l | 71752.46 |
| Cd | 114 | 159 | 1 | NO GAS | 53.436 | ug/l | 643633.55 |
| Cd | 114 | 159 | 3 | He | 50.712 | ug/l | 185021.39 |
| Sn | 118 | 159 | 1 | NO GAS | 51.066 | ug/l | 800160.23 |
| Sn | 118 | 159 | 3 | He | 49.471 | ug/l | 129779.37 |
| Sb | 121 | 159 | 1 | NO GAS | 52.274 | ug/l | 1112411.88 |
| Sb | 121 | 159 | 3 | He | 49.947 | ug/l | 165910.54 |
| Sb | 123 | 159 | 1 | NO GAS | 51.976 | ug/l | 860856.85 |
| Sb | 123 | 159 | 3 | He | 49.784 | ug/l | 136893.96 |
| Ba | 135 | 159 | 1 | NO GAS | 52.231 | ug/l | 241510.60 |
| Ba | 137 | 159 | 1 | NO GAS | 50.017 | ug/l | 407522.70 |
| La | 139 | 175 | 1 | NO GAS | 48.465 | ug/l | 3784380.18 |
| La | 139 | 175 | 3 | He | 49.428 | ug/l | 894990.34 |
| Ce | 140 | 175 | 1 | NO GAS | 47.937 | ug/l | 3668935.21 |
| Ce | 140 | 175 | 3 | He | 48.843 | ug/l | 1124111.91 |
| Hg | 201 | 175 | 1 | NO GAS | 0.962 | ug/l | 3889.39 |
| Hg | 202 | 175 | 1 | NO GAS | 0.989 | ug/l | 9070.92 |
| Hg | 202 | 175 | 3 | He | 0.990 | ug/l | 6864.52 |
| Tl | 203 | 175 | 3 | He | 49.308 | ug/l | 699138.28 |
| Tl | 205 | 175 | 1 | NO GAS | 51.597 | ug/l | 3097139.57 |
| Tl | 205 | 175 | 3 | He | 51.528 | ug/l | 1732843.73 |
| [Pb] | 206 | 175 | 1 | NO GAS | 49.407 | ug/l | 1025273.64 |
| [Pb] | 207 | 175 | 1 | NO GAS | 49.900 | ug/l | 911299.94 |
| Pb | 208 | 175 | 1 | NO GAS | 50.224 | ug/l | 4172199.09 |
| Th | 232 | 175 | 3 | He | 49.205 | ug/l | 2493056.49 |
| U | 238 | 175 | 1 | NO GAS | 48.757 | ug/l | 4702594.62 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1996364.82 | 107.0 |
| Sc | 45 | 2 | H2 | 97789.31 | 118.4 |
| Sc | 45 | 3 | He | 58834.50 | 117.0 |
| Ge | 72 | 1 | NO GAS | 870262.09 | 102.9 |
| Ge | 72 | 2 | H2 | 129969.12 | 109.7 |
| Ge | 72 | 3 | He | 85471.74 | 113.2 |
| Tb | 159 | 1 | NO GAS | 17729006.82 | 97.1 |
| Tb | 159 | 3 | He | 7045483.99 | 99.8 |
| Ho | 165 | 1 | NO GAS | 16605346.53 | 97.9 |
| Ho | 165 | 3 | He | 6766876.12 | 101.5 |
| Lu | 175 | 1 | NO GAS | 18701621.49 | 98.6 |
| Lu | 175 | 3 | He | 4293016.67 | 103.2 |

ICPMS206-B Analytical Data

Sample Name CCB
File Name 042_CCB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 22:57:57
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.590 | ug/l | 2294.37 |
| Be | 9 | 45 | 1 | NO GAS | 0.002 | ug/l | 7.67 |
| B | 11 | 45 | 1 | NO GAS | 0.607 | ug/l | 342.60 |
| Na | 23 | 45 | 3 | He | -3.526 | ug/l | 7630.61 |
| Mg | 24 | 45 | 3 | He | 0.086 | ug/l | 19.96 |
| Al | 27 | 45 | 1 | NO GAS | -0.018 | ug/l | 695.58 |
| Si | 28 | 45 | 2 | H2 | 0.564 | ug/l | 35.99 |
| K | 39 | 72 | 3 | He | -1.826 | ug/l | 2943.61 |
| Ca | 40 | 72 | 2 | H2 | 0.013 | ug/l | 649.70 |
| Ti | 47 | 72 | 1 | NO GAS | 0.036 | ug/l | 58.31 |
| V | 51 | 72 | 1 | NO GAS | -0.280 | ug/l | -11789.90 |
| V | 51 | 72 | 3 | He | 0.014 | ug/l | 113.34 |
| Cr | 52 | 72 | 1 | NO GAS | 0.091 | ug/l | 11641.07 |
| Cr | 52 | 72 | 3 | He | -0.002 | ug/l | 149.70 |
| Cr | 53 | 72 | 1 | NO GAS | 6.069 | ug/l | 59733.57 |
| Mn | 55 | 72 | 1 | NO GAS | 0.012 | ug/l | 1001.38 |
| Mn | 55 | 72 | 3 | He | -0.003 | ug/l | 2.67 |
| Fe | 56 | 72 | 2 | H2 | -0.024 | ug/l | 368.16 |
| Fe | 56 | 72 | 3 | He | 0.037 | ug/l | 731.33 |
| Co | 59 | 72 | 1 | NO GAS | -0.001 | ug/l | 63.21 |
| Ni | 60 | 72 | 1 | NO GAS | 0.009 | ug/l | 103.13 |
| Ni | 60 | 72 | 3 | He | -0.006 | ug/l | 24.44 |
| Ni | 62 | 72 | 1 | NO GAS | 0.258 | ug/l | 449.12 |
| Cu | 63 | 72 | 1 | NO GAS | -0.005 | ug/l | 462.58 |
| Cu | 63 | 72 | 3 | He | -0.010 | ug/l | 188.30 |
| Cu | 65 | 72 | 1 | NO GAS | -0.010 | ug/l | 212.63 |
| Zn | 66 | 72 | 1 | NO GAS | -0.073 | ug/l | 309.36 |
| Zn | 66 | 72 | 3 | He | -0.072 | ug/l | 65.56 |
| As | 75 | 72 | 1 | NO GAS | -0.105 | ug/l | 3032.23 |
| As | 75 | 72 | 3 | He | 0.012 | ug/l | 9.67 |
| Se | 78 | 72 | 2 | H2 | 0.019 | ug/l | 5.00 |
| Br | 79 | 72 | 1 | NO GAS | -0.516 | ug/l | 65666.46 |
| Br | 79 | 72 | 2 | H2 | -0.132 | ug/l | 10091.51 |
| Se | 82 | 72 | 1 | NO GAS | 1.002 | ug/l | 482.41 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8125.91 |
| Sr | 88 | 72 | 1 | NO GAS | 0.000 | ug/l | 372.60 |
| Sr | 88 | 72 | 3 | He | 0.007 | ug/l | 283.34 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.009 | ug/l | 156.67 |
| Mo | 95 | 72 | 3 | He | 0.005 | ug/l | 53.34 |
| Mo | 98 | 72 | 1 | NO GAS | 0.005 | ug/l | 245.57 |
| Ag | 107 | 72 | 1 | NO GAS | 0.010 | ug/l | 2125.06 |
| Ag | 109 | 72 | 1 | NO GAS | 0.012 | ug/l | 2117.06 |
| Cd | 111 | 159 | 1 | NO GAS | 0.005 | ug/l | -7.78 |
| Cd | 111 | 159 | 3 | He | 0.002 | ug/l | 3.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.006 | ug/l | -199.64 |
| Cd | 114 | 159 | 3 | He | 0.003 | ug/l | -26.71 |
| Sn | 118 | 159 | 1 | NO GAS | -0.013 | ug/l | 44426.68 |
| Sn | 118 | 159 | 3 | He | 0.072 | ug/l | 7012.69 |
| Sb | 121 | 159 | 1 | NO GAS | 0.053 | ug/l | 1443.41 |
| Sb | 121 | 159 | 3 | He | 0.039 | ug/l | 177.78 |
| Sb | 123 | 159 | 1 | NO GAS | 0.055 | ug/l | 1173.39 |
| Sb | 123 | 159 | 3 | He | 0.041 | ug/l | 146.67 |
| Ba | 135 | 159 | 1 | NO GAS | 0.002 | ug/l | 26.61 |
| Ba | 137 | 159 | 1 | NO GAS | 0.004 | ug/l | 86.49 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 43.38 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 16.68 |
| Ce | 140 | 175 | 1 | NO GAS | 0.000 | ug/l | 86.75 |
| Ce | 140 | 175 | 3 | He | 0.000 | ug/l | 16.68 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 45.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.006 | ug/l | 135.64 |
| Hg | 202 | 175 | 3 | He | 0.006 | ug/l | 71.99 |
| Tl | 203 | 175 | 3 | He | 0.009 | ug/l | 238.62 |
| Tl | 205 | 175 | 1 | NO GAS | 0.008 | ug/l | 828.92 |
| Tl | 205 | 175 | 3 | He | 0.008 | ug/l | 535.90 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.001 | ug/l | 83.33 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.002 | ug/l | 88.89 |
| Pb | 208 | 175 | 1 | NO GAS | 0.002 | ug/l | 393.34 |
| Th | 232 | 175 | 3 | He | 0.067 | ug/l | 4607.15 |
| U | 238 | 175 | 1 | NO GAS | 0.003 | ug/l | 499.91 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2213824.88 | 118.6 |
| Sc | 45 | 2 | H2 | 100830.81 | 122.1 |
| Sc | 45 | 3 | He | 58405.65 | 116.1 |
| Ge | 72 | 1 | NO GAS | 925210.27 | 109.4 |
| Ge | 72 | 2 | H2 | 135547.15 | 114.4 |
| Ge | 72 | 3 | He | 85528.16 | 113.3 |
| Tb | 159 | 1 | NO GAS | 19710704.60 | 107.9 |
| Tb | 159 | 3 | He | 7687793.51 | 108.9 |
| Ho | 165 | 1 | NO GAS | 18046168.24 | 106.4 |
| Ho | 165 | 3 | He | 7132707.98 | 107.0 |
| Lu | 175 | 1 | NO GAS | 20098221.47 | 106.0 |
| Lu | 175 | 3 | He | 4532393.33 | 108.9 |

ICPMS206-B Analytical Data

Sample Name LRB
File Name 043_LRB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 23:03:43
Sample Type LRB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | -0.003 | ug/l | 2085.38 |
| Be | 9 | 45 | 1 | NO GAS | -0.003 | ug/l | 5.67 |
| B | 11 | 45 | 1 | NO GAS | 0.276 | ug/l | 265.95 |
| Na | 23 | 45 | 3 | He | 32.018 | ug/l | 11324.85 |
| Mg | 24 | 45 | 3 | He | 0.898 | ug/l | 63.21 |
| Al | 27 | 45 | 1 | NO GAS | 0.341 | ug/l | 1989.04 |
| Si | 28 | 45 | 2 | H2 | 4.461 | ug/l | 103.99 |
| K | 39 | 72 | 3 | He | -2.897 | ug/l | 2924.16 |
| Ca | 40 | 72 | 2 | H2 | 6.779 | ug/l | 1910.84 |
| Ti | 47 | 72 | 1 | NO GAS | 0.019 | ug/l | 41.65 |
| V | 51 | 72 | 1 | NO GAS | 0.255 | ug/l | -4364.97 |
| V | 51 | 72 | 3 | He | 0.036 | ug/l | 146.67 |
| Cr | 52 | 72 | 1 | NO GAS | 0.134 | ug/l | 12683.08 |
| Cr | 52 | 72 | 3 | He | 0.132 | ug/l | 415.85 |
| Cr | 53 | 72 | 1 | NO GAS | 2.805 | ug/l | 56046.37 |
| Mn | 55 | 72 | 1 | NO GAS | 0.015 | ug/l | 1084.56 |
| Mn | 55 | 72 | 3 | He | 0.012 | ug/l | 17.33 |
| Fe | 56 | 72 | 2 | H2 | 0.795 | ug/l | 1226.11 |
| Fe | 56 | 72 | 3 | He | 0.579 | ug/l | 1737.57 |
| Co | 59 | 72 | 1 | NO GAS | 0.000 | ug/l | 83.17 |
| Ni | 60 | 72 | 1 | NO GAS | 0.078 | ug/l | 369.28 |
| Ni | 60 | 72 | 3 | He | 0.065 | ug/l | 112.22 |
| Ni | 62 | 72 | 1 | NO GAS | 0.376 | ug/l | 538.94 |
| Cu | 63 | 72 | 1 | NO GAS | -0.007 | ug/l | 458.58 |
| Cu | 63 | 72 | 3 | He | -0.026 | ug/l | 132.31 |
| Cu | 65 | 72 | 1 | NO GAS | -0.012 | ug/l | 209.96 |
| Zn | 66 | 72 | 1 | NO GAS | 0.650 | ug/l | 2658.22 |
| Zn | 66 | 72 | 3 | He | 0.642 | ug/l | 444.46 |
| As | 75 | 72 | 1 | NO GAS | -0.046 | ug/l | 3335.22 |
| As | 75 | 72 | 3 | He | -0.004 | ug/l | 4.33 |
| Se | 78 | 72 | 2 | H2 | 0.013 | ug/l | 3.67 |
| Br | 79 | 72 | 1 | NO GAS | -0.276 | ug/l | 69718.12 |
| Br | 79 | 72 | 2 | H2 | 1.715 | ug/l | 10529.26 |
| Se | 82 | 72 | 1 | NO GAS | 0.373 | ug/l | 290.77 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8132.61 |
| Sr | 88 | 72 | 1 | NO GAS | 0.008 | ug/l | 728.58 |
| Sr | 88 | 72 | 3 | He | -0.003 | ug/l | 271.11 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.014 | ug/l | 213.34 |
| Mo | 95 | 72 | 3 | He | 0.008 | ug/l | 63.33 |
| Mo | 98 | 72 | 1 | NO GAS | 0.011 | ug/l | 347.93 |
| Ag | 107 | 72 | 1 | NO GAS | -0.069 | ug/l | 228.63 |
| Ag | 109 | 72 | 1 | NO GAS | -0.067 | ug/l | 261.95 |
| Cd | 111 | 159 | 1 | NO GAS | 0.012 | ug/l | 27.28 |
| Cd | 111 | 159 | 3 | He | 0.000 | ug/l | 1.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.018 | ug/l | -27.69 |
| Cd | 114 | 159 | 3 | He | 0.010 | ug/l | 4.22 |
| Sn | 118 | 159 | 1 | NO GAS | -2.543 | ug/l | 2595.10 |
| Sn | 118 | 159 | 3 | He | -2.368 | ug/l | 362.23 |
| Sb | 121 | 159 | 1 | NO GAS | 0.013 | ug/l | 503.35 |
| Sb | 121 | 159 | 3 | He | 0.011 | ug/l | 74.44 |
| Sb | 123 | 159 | 1 | NO GAS | 0.010 | ug/l | 361.12 |
| Sb | 123 | 159 | 3 | He | 0.013 | ug/l | 64.44 |
| Ba | 135 | 159 | 1 | NO GAS | 0.007 | ug/l | 53.23 |
| Ba | 137 | 159 | 1 | NO GAS | 0.010 | ug/l | 146.38 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 56.72 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 23.36 |
| Ce | 140 | 175 | 1 | NO GAS | 0.000 | ug/l | 80.08 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 46.71 |
| Hg | 201 | 175 | 1 | NO GAS | 0.004 | ug/l | 33.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.003 | ug/l | 104.31 |
| Hg | 202 | 175 | 3 | He | 0.003 | ug/l | 52.99 |
| Tl | 203 | 175 | 3 | He | 0.002 | ug/l | 135.31 |
| Tl | 205 | 175 | 1 | NO GAS | 0.002 | ug/l | 454.45 |
| Tl | 205 | 175 | 3 | He | 0.003 | ug/l | 361.94 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.002 | ug/l | 110.00 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.002 | ug/l | 83.33 |
| Pb | 208 | 175 | 1 | NO GAS | 0.002 | ug/l | 417.78 |
| Th | 232 | 175 | 3 | He | 0.032 | ug/l | 2767.05 |
| U | 238 | 175 | 1 | NO GAS | 0.001 | ug/l | 237.29 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2265722.91 | 121.4 |
| Sc | 45 | 2 | H2 | 85319.63 | 103.3 |
| Sc | 45 | 3 | He | 58544.53 | 116.4 |
| Ge | 72 | 1 | NO GAS | 962263.56 | 113.8 |
| Ge | 72 | 2 | H2 | 119310.82 | 100.7 |
| Ge | 72 | 3 | He | 86427.77 | 114.5 |
| Tb | 159 | 1 | NO GAS | 20323242.53 | 111.3 |
| Tb | 159 | 3 | He | 7586856.95 | 107.5 |
| Ho | 165 | 1 | NO GAS | 19498100.75 | 114.9 |
| Ho | 165 | 3 | He | 7229168.29 | 108.4 |
| Lu | 175 | 1 | NO GAS | 20856139.78 | 110.0 |
| Lu | 175 | 3 | He | 4566669.53 | 109.7 |

ICPMS206-B Analytical Data

Sample Name LFB
File Name 044LFB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 23:09:28
Sample Type LFB
Total Dilution 1.0300
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 2138.311 | ug/l | 1331945.67 |
| Be | 9 | 45 | 1 | NO GAS | 46.706 | ug/l | 14758.25 |
| B | 11 | 45 | 1 | NO GAS | 47.174 | ug/l | 11227.44 |
| Na | 23 | 45 | 3 | He | 50530.263 | ug/l | 4797210.87 |
| Mg | 24 | 45 | 3 | He | 49242.987 | ug/l | 2393122.64 |
| Al | 27 | 45 | 1 | NO GAS | 46.598 | ug/l | 155674.36 |
| Si | 28 | 45 | 2 | H2 | 234.597 | ug/l | 4110.36 |
| K | 39 | 72 | 3 | He | 47715.381 | ug/l | 2097886.57 |
| Ca | 40 | 72 | 2 | H2 | 60463.276 | ug/l | 10202964.98 |
| Ti | 47 | 72 | 1 | NO GAS | 54.260 | ug/l | 47753.77 |
| V | 51 | 72 | 1 | NO GAS | 49.963 | ug/l | 646529.98 |
| V | 51 | 72 | 3 | He | 49.356 | ug/l | 65275.12 |
| Cr | 52 | 72 | 1 | NO GAS | 48.586 | ug/l | 612215.21 |
| Cr | 52 | 72 | 3 | He | 47.097 | ug/l | 87726.53 |
| Cr | 53 | 72 | 1 | NO GAS | 74.999 | ug/l | 173327.98 |
| Mn | 55 | 72 | 1 | NO GAS | 48.749 | ug/l | 904096.29 |
| Mn | 55 | 72 | 3 | He | 49.388 | ug/l | 43244.43 |
| Fe | 56 | 72 | 2 | H2 | 5544.510 | ug/l | 5180959.52 |
| Fe | 56 | 72 | 3 | He | 4620.097 | ug/l | 8027391.51 |
| Co | 59 | 72 | 1 | NO GAS | 49.387 | ug/l | 807161.11 |
| Ni | 60 | 72 | 1 | NO GAS | 48.267 | ug/l | 175911.91 |
| Ni | 60 | 72 | 3 | He | 48.910 | ug/l | 57027.47 |
| Ni | 62 | 72 | 1 | NO GAS | 48.251 | ug/l | 27271.63 |
| Cu | 63 | 72 | 1 | NO GAS | 49.518 | ug/l | 457155.97 |
| Cu | 63 | 72 | 3 | He | 49.159 | ug/l | 170326.94 |
| Cu | 65 | 72 | 1 | NO GAS | 48.882 | ug/l | 225507.45 |
| Zn | 66 | 72 | 1 | NO GAS | 48.362 | ug/l | 147067.37 |
| Zn | 66 | 72 | 3 | He | 48.280 | ug/l | 24227.55 |
| As | 75 | 72 | 1 | NO GAS | 49.111 | ug/l | 162814.31 |
| As | 75 | 72 | 3 | He | 48.901 | ug/l | 15606.16 |
| Se | 78 | 72 | 2 | H2 | 61.686 | ug/l | 5528.83 |
| Br | 79 | 72 | 1 | NO GAS | -0.920 | ug/l | 62917.56 |
| Br | 79 | 72 | 2 | H2 | 2.740 | ug/l | 9903.50 |
| Se | 82 | 72 | 1 | NO GAS | 49.110 | ug/l | 13724.96 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 19169.81 |
| Sr | 88 | 72 | 1 | NO GAS | 48.699 | ug/l | 1836749.83 |
| Sr | 88 | 72 | 3 | He | 48.582 | ug/l | 78423.29 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 48.433 | ug/l | 400909.78 |
| Mo | 95 | 72 | 3 | He | 48.961 | ug/l | 134838.78 |
| Mo | 98 | 72 | 1 | NO GAS | 47.726 | ug/l | 676413.70 |
| Ag | 107 | 72 | 1 | NO GAS | 20.030 | ug/l | 469015.84 |
| Ag | 109 | 72 | 1 | NO GAS | 19.488 | ug/l | 449616.32 |
| Cd | 111 | 159 | 1 | NO GAS | 46.762 | ug/l | 266691.61 |
| Cd | 111 | 159 | 3 | He | 48.219 | ug/l | 66576.66 |
| Cd | 114 | 159 | 1 | NO GAS | 47.669 | ug/l | 621269.65 |
| Cd | 114 | 159 | 3 | He | 48.542 | ug/l | 173869.04 |
| Sn | 118 | 159 | 1 | NO GAS | 46.647 | ug/l | 797728.93 |
| Sn | 118 | 159 | 3 | He | 46.717 | ug/l | 120809.94 |
| Sb | 121 | 159 | 1 | NO GAS | 47.783 | ug/l | 1101843.95 |
| Sb | 121 | 159 | 3 | He | 48.746 | ug/l | 158924.03 |
| Sb | 123 | 159 | 1 | NO GAS | 48.961 | ug/l | 878278.88 |
| Sb | 123 | 159 | 3 | He | 48.577 | ug/l | 131153.27 |
| Ba | 135 | 159 | 1 | NO GAS | 47.979 | ug/l | 239856.63 |
| Ba | 137 | 159 | 1 | NO GAS | 46.978 | ug/l | 413930.72 |
| La | 139 | 175 | 1 | NO GAS | 0.005 | ug/l | 457.14 |
| La | 139 | 175 | 3 | He | 0.006 | ug/l | 100.10 |
| Ce | 140 | 175 | 1 | NO GAS | 45.095 | ug/l | 3779729.31 |
| Ce | 140 | 175 | 3 | He | 48.656 | ug/l | 1092192.84 |
| Hg | 201 | 175 | 1 | NO GAS | 0.937 | ug/l | 4110.74 |
| Hg | 202 | 175 | 1 | NO GAS | 0.913 | ug/l | 9111.92 |
| Hg | 202 | 175 | 3 | He | 0.966 | ug/l | 6526.43 |
| Tl | 203 | 175 | 3 | He | 46.952 | ug/l | 649021.56 |
| Tl | 205 | 175 | 1 | NO GAS | 45.390 | ug/l | 2959233.81 |
| Tl | 205 | 175 | 3 | He | 48.749 | ug/l | 1596919.14 |
| [Pb] | 206 | 175 | 1 | NO GAS | 46.303 | ug/l | 1042980.95 |
| [Pb] | 207 | 175 | 1 | NO GAS | 44.264 | ug/l | 878360.99 |
| Pb | 208 | 175 | 1 | NO GAS | 45.196 | ug/l | 4079517.92 |
| Th | 232 | 175 | 3 | He | 49.235 | ug/l | 2430931.00 |
| U | 238 | 175 | 1 | NO GAS | 45.042 | ug/l | 4725044.42 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2186484.30 | 117.2 |
| Sc | 45 | 2 | H2 | 78256.88 | 94.8 |
| Sc | 45 | 3 | He | 55125.81 | 109.6 |
| Ge | 72 | 1 | NO GAS | 928971.13 | 109.8 |
| Ge | 72 | 2 | H2 | 104886.82 | 88.5 |
| Ge | 72 | 3 | He | 83860.34 | 111.1 |
| Tb | 159 | 1 | NO GAS | 19877366.25 | 108.8 |
| Tb | 159 | 3 | He | 7127157.01 | 101.0 |
| Ho | 165 | 1 | NO GAS | 18783457.17 | 110.7 |
| Ho | 165 | 3 | He | 6704475.33 | 100.6 |
| Lu | 175 | 1 | NO GAS | 21007560.15 | 110.8 |
| Lu | 175 | 3 | He | 4312499.90 | 103.6 |

ICPMS206-B Analytical Data

Sample Name ICSA
File Name 045ICSA.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 23:15:10
Sample Type ICSA
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|--------------|
| Li | 7 | 165 | 1 | NO GAS | 1.196 | ug/l | 2679.01 |
| Be | 9 | 45 | 1 | NO GAS | -0.007 | ug/l | 4.33 |
| B | 11 | 45 | 1 | NO GAS | 0.463 | ug/l | 290.61 |
| Na | 23 | 45 | 3 | He | 91386.874 | ug/l | 8293275.22 |
| Mg | 24 | 45 | 3 | He | 37624.393 | ug/l | 1748363.40 |
| Al | 27 | 45 | 1 | NO GAS | 35003.679 | ug/l | 116173306.05 |
| Si | 28 | 45 | 2 | H2 | 0.647 | ug/l | 29.99 |
| K | 39 | 72 | 3 | He | 35683.368 | ug/l | 1535746.11 |
| Ca | 40 | 72 | 2 | H2 | 103358.347 | ug/l | 20901666.07 |
| Ti | 47 | 72 | 1 | NO GAS | 769.392 | ug/l | 693540.71 |
| V | 51 | 72 | 1 | NO GAS | -0.044 | ug/l | -8457.14 |
| V | 51 | 72 | 3 | He | -0.001 | ug/l | 86.67 |
| Cr | 52 | 72 | 1 | NO GAS | 0.900 | ug/l | 21824.32 |
| Cr | 52 | 72 | 3 | He | 0.805 | ug/l | 1610.23 |
| Cr | 53 | 72 | 1 | NO GAS | -6.290 | ug/l | 38406.53 |
| Mn | 55 | 72 | 1 | NO GAS | 0.208 | ug/l | 4718.00 |
| Mn | 55 | 72 | 3 | He | 0.186 | ug/l | 164.35 |
| Fe | 56 | 72 | 2 | H2 | 91367.196 | ug/l | 102218740.85 |
| Fe | 56 | 72 | 3 | He | 88968.740 | ug/l | 151267903.78 |
| Co | 59 | 72 | 1 | NO GAS | 0.355 | ug/l | 6025.86 |
| Ni | 60 | 72 | 1 | NO GAS | 1.387 | ug/l | 5240.51 |
| Ni | 60 | 72 | 3 | He | 0.175 | ug/l | 228.89 |
| Ni | 62 | 72 | 1 | NO GAS | 3.783 | ug/l | 2461.98 |
| Cu | 63 | 72 | 1 | NO GAS | 1.443 | ug/l | 14131.82 |
| Cu | 63 | 72 | 3 | He | 0.018 | ug/l | 268.62 |
| Cu | 65 | 72 | 1 | NO GAS | 0.491 | ug/l | 2576.36 |
| Zn | 66 | 72 | 1 | NO GAS | 0.719 | ug/l | 2760.73 |
| Zn | 66 | 72 | 3 | He | 0.327 | ug/l | 256.67 |
| As | 75 | 72 | 1 | NO GAS | 0.091 | ug/l | 3696.67 |
| As | 75 | 72 | 3 | He | 0.067 | ug/l | 26.33 |
| Se | 78 | 72 | 2 | H2 | 0.124 | ug/l | 15.67 |
| Br | 79 | 72 | 1 | NO GAS | 0.156 | ug/l | 69760.62 |
| Br | 79 | 72 | 2 | H2 | 0.731 | ug/l | 9816.83 |
| Se | 82 | 72 | 1 | NO GAS | 1.022 | ug/l | 470.44 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8748.40 |
| Sr | 88 | 72 | 1 | NO GAS | 1.221 | ug/l | 47521.23 |
| Sr | 88 | 72 | 3 | He | 1.285 | ug/l | 2276.84 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 773.732 | ug/l | 6556165.60 |
| Mo | 95 | 72 | 3 | He | 785.219 | ug/l | 2115096.98 |
| Mo | 98 | 72 | 1 | NO GAS | 765.933 | ug/l | 11105619.98 |
| Ag | 107 | 72 | 1 | NO GAS | 0.006 | ug/l | 1996.40 |
| Ag | 109 | 72 | 1 | NO GAS | 0.001 | ug/l | 1850.41 |
| Cd | 111 | 159 | 1 | NO GAS | 0.037 | ug/l | 171.67 |
| Cd | 111 | 159 | 3 | He | 0.203 | ug/l | 282.61 |
| Cd | 114 | 159 | 1 | NO GAS | 0.069 | ug/l | 669.55 |
| Cd | 114 | 159 | 3 | He | 0.154 | ug/l | 519.77 |
| Sn | 118 | 159 | 1 | NO GAS | -2.292 | ug/l | 6621.64 |
| Sn | 118 | 159 | 3 | He | -2.068 | ug/l | 1066.71 |
| Sb | 121 | 159 | 1 | NO GAS | 0.031 | ug/l | 915.59 |
| Sb | 121 | 159 | 3 | He | 0.029 | ug/l | 128.89 |
| Sb | 123 | 159 | 1 | NO GAS | 0.047 | ug/l | 1023.88 |
| Sb | 123 | 159 | 3 | He | 0.030 | ug/l | 104.45 |
| Ba | 135 | 159 | 1 | NO GAS | 0.066 | ug/l | 349.31 |
| Ba | 137 | 159 | 1 | NO GAS | 0.069 | ug/l | 672.02 |
| La | 139 | 175 | 1 | NO GAS | 0.009 | ug/l | 817.53 |
| La | 139 | 175 | 3 | He | 0.008 | ug/l | 146.82 |
| Ce | 140 | 175 | 1 | NO GAS | 0.003 | ug/l | 350.37 |
| Ce | 140 | 175 | 3 | He | 0.002 | ug/l | 70.07 |
| Hg | 201 | 175 | 1 | NO GAS | 0.006 | ug/l | 41.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.003 | ug/l | 103.98 |
| Hg | 202 | 175 | 3 | He | 0.004 | ug/l | 54.99 |
| Tl | 203 | 175 | 3 | He | 0.059 | ug/l | 948.51 |
| Tl | 205 | 175 | 1 | NO GAS | 0.057 | ug/l | 4007.24 |
| Tl | 205 | 175 | 3 | He | 0.061 | ug/l | 2316.40 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.017 | ug/l | 456.68 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.018 | ug/l | 398.90 |
| Pb | 208 | 175 | 1 | NO GAS | 0.018 | ug/l | 1831.17 |
| Th | 232 | 175 | 3 | He | 0.179 | ug/l | 10189.48 |
| U | 238 | 175 | 1 | NO GAS | 0.003 | ug/l | 407.26 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2095276.48 | 112.3 |
| Sc | 45 | 2 | H2 | 79607.90 | 96.4 |
| Sc | 45 | 3 | He | 51211.65 | 101.8 |
| Ge | 72 | 1 | NO GAS | 913888.71 | 108.0 |
| Ge | 72 | 2 | H2 | 120967.96 | 102.1 |
| Ge | 72 | 3 | He | 79669.96 | 105.6 |
| Tb | 159 | 1 | NO GAS | 19444552.20 | 106.5 |
| Tb | 159 | 3 | He | 6936234.90 | 98.3 |
| Ho | 165 | 1 | NO GAS | 18050524.47 | 106.4 |
| Ho | 165 | 3 | He | 6657292.74 | 99.9 |
| Lu | 175 | 1 | NO GAS | 19943811.02 | 105.2 |
| Lu | 175 | 3 | He | 4359751.94 | 104.8 |

ICPMS206-B Analytical Data

Sample Name ICSAB
File Name 046ICSB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 23:20:56
Sample Type ICSB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 165 | 1 | NO GAS | 0.286 | ug/l | 1980.39 |
| Be | 9 | 45 | 1 | NO GAS | -0.009 | ug/l | 3.00 |
| B | 11 | 45 | 1 | NO GAS | 0.043 | ug/l | 168.64 |
| Na | 23 | 45 | 3 | He | 85095.780 | ug/l | 6864011.36 |
| Mg | 24 | 45 | 3 | He | 32846.490 | ug/l | 1357130.23 |
| Al | 27 | 45 | 1 | NO GAS | 32310.096 | ug/l | 93614165.27 |
| Si | 28 | 45 | 2 | H2 | 0.719 | ug/l | 26.00 |
| K | 39 | 72 | 3 | He | 33574.049 | ug/l | 1323971.09 |
| Ca | 40 | 72 | 2 | H2 | 91663.019 | ug/l | 16821058.77 |
| Ti | 47 | 72 | 1 | NO GAS | 739.476 | ug/l | 610618.29 |
| V | 51 | 72 | 1 | NO GAS | 18.887 | ug/l | 225002.10 |
| V | 51 | 72 | 3 | He | 18.635 | ug/l | 22143.45 |
| Cr | 52 | 72 | 1 | NO GAS | 19.426 | ug/l | 235197.83 |
| Cr | 52 | 72 | 3 | He | 18.842 | ug/l | 31547.12 |
| Cr | 53 | 72 | 1 | NO GAS | 9.489 | ug/l | 59616.65 |
| Mn | 55 | 72 | 1 | NO GAS | 19.033 | ug/l | 331728.61 |
| Mn | 55 | 72 | 3 | He | 19.012 | ug/l | 14927.39 |
| Fe | 56 | 72 | 2 | H2 | 82292.131 | ug/l | 83397874.50 |
| Fe | 56 | 72 | 3 | He | 86683.998 | ug/l | 135032940.43 |
| Co | 59 | 72 | 1 | NO GAS | 19.294 | ug/l | 296018.49 |
| Ni | 60 | 72 | 1 | NO GAS | 20.060 | ug/l | 68590.61 |
| Ni | 60 | 72 | 3 | He | 19.039 | ug/l | 19917.43 |
| Ni | 62 | 72 | 1 | NO GAS | 23.380 | ug/l | 12493.38 |
| Cu | 63 | 72 | 1 | NO GAS | 20.126 | ug/l | 174574.85 |
| Cu | 63 | 72 | 3 | He | 18.690 | ug/l | 58167.70 |
| Cu | 65 | 72 | 1 | NO GAS | 18.936 | ug/l | 82088.88 |
| Zn | 66 | 72 | 1 | NO GAS | 9.922 | ug/l | 28662.36 |
| Zn | 66 | 72 | 3 | He | 9.528 | ug/l | 4357.26 |
| As | 75 | 72 | 1 | NO GAS | 9.715 | ug/l | 32703.05 |
| As | 75 | 72 | 3 | He | 9.932 | ug/l | 2845.68 |
| Se | 78 | 72 | 2 | H2 | 10.424 | ug/l | 1012.50 |
| Br | 79 | 72 | 1 | NO GAS | 0.984 | ug/l | 69196.38 |
| Br | 79 | 72 | 2 | H2 | 2.133 | ug/l | 10114.77 |
| Se | 82 | 72 | 1 | NO GAS | 10.843 | ug/l | 2973.95 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8392.23 |
| Sr | 88 | 72 | 1 | NO GAS | 1.186 | ug/l | 42277.48 |
| Sr | 88 | 72 | 3 | He | 1.278 | ug/l | 2075.70 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 759.976 | ug/l | 5901501.16 |
| Mo | 95 | 72 | 3 | He | 782.181 | ug/l | 1930666.97 |
| Mo | 98 | 72 | 1 | NO GAS | 779.814 | ug/l | 10361880.13 |
| Ag | 107 | 72 | 1 | NO GAS | 4.783 | ug/l | 106258.89 |
| Ag | 109 | 72 | 1 | NO GAS | 4.793 | ug/l | 104845.15 |
| Cd | 111 | 159 | 1 | NO GAS | 9.468 | ug/l | 50640.56 |
| Cd | 111 | 159 | 3 | He | 9.772 | ug/l | 12382.27 |
| Cd | 114 | 159 | 1 | NO GAS | 9.737 | ug/l | 119095.71 |
| Cd | 114 | 159 | 3 | He | 9.803 | ug/l | 32184.63 |
| Sn | 118 | 159 | 1 | NO GAS | -2.290 | ug/l | 6132.39 |
| Sn | 118 | 159 | 3 | He | -2.102 | ug/l | 902.26 |
| Sb | 121 | 159 | 1 | NO GAS | 0.031 | ug/l | 825.59 |
| Sb | 121 | 159 | 3 | He | 0.018 | ug/l | 85.56 |
| Sb | 123 | 159 | 1 | NO GAS | 0.026 | ug/l | 582.24 |
| Sb | 123 | 159 | 3 | He | 0.036 | ug/l | 111.11 |
| Ba | 135 | 159 | 1 | NO GAS | 0.081 | ug/l | 395.89 |
| Ba | 137 | 159 | 1 | NO GAS | 0.058 | ug/l | 525.64 |
| La | 139 | 175 | 1 | NO GAS | 0.010 | ug/l | 807.52 |
| La | 139 | 175 | 3 | He | 0.011 | ug/l | 176.85 |
| Ce | 140 | 175 | 1 | NO GAS | 0.003 | ug/l | 270.28 |
| Ce | 140 | 175 | 3 | He | 0.003 | ug/l | 93.43 |
| Hg | 201 | 175 | 1 | NO GAS | 0.001 | ug/l | 17.33 |
| Hg | 202 | 175 | 1 | NO GAS | 0.003 | ug/l | 91.98 |
| Hg | 202 | 175 | 3 | He | 0.003 | ug/l | 41.99 |
| Tl | 203 | 175 | 3 | He | 0.023 | ug/l | 383.93 |
| Tl | 205 | 175 | 1 | NO GAS | 0.019 | ug/l | 1414.52 |
| Tl | 205 | 175 | 3 | He | 0.022 | ug/l | 906.52 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.014 | ug/l | 346.67 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.016 | ug/l | 332.23 |
| Pb | 208 | 175 | 1 | NO GAS | 0.017 | ug/l | 1573.38 |
| Th | 232 | 175 | 3 | He | 0.110 | ug/l | 6092.06 |
| U | 238 | 175 | 1 | NO GAS | 0.001 | ug/l | 202.96 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1830032.57 | 98.1 |
| Sc | 45 | 2 | H2 | 66997.69 | 81.1 |
| Sc | 45 | 3 | He | 45527.51 | 90.5 |
| Ge | 72 | 1 | NO GAS | 837202.58 | 99.0 |
| Ge | 72 | 2 | H2 | 109836.04 | 92.7 |
| Ge | 72 | 3 | He | 72989.72 | 96.7 |
| Tb | 159 | 1 | NO GAS | 17888454.07 | 97.9 |
| Tb | 159 | 3 | He | 6345353.93 | 89.9 |
| Ho | 165 | 1 | NO GAS | 16873470.17 | 99.4 |
| Ho | 165 | 3 | He | 6205712.42 | 93.1 |
| Lu | 175 | 1 | NO GAS | 17888641.14 | 94.3 |
| Lu | 175 | 3 | He | 3999132.87 | 96.1 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 047BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 23:26:40
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 0.537 | ug/l | 2203.04 |
| Be | 9 | 45 | 1 | NO GAS | 0.020 | ug/l | 11.00 |
| B | 11 | 45 | 1 | NO GAS | -0.015 | ug/l | 157.30 |
| Na | 23 | 45 | 3 | He | 34.396 | ug/l | 9469.30 |
| Mg | 24 | 45 | 3 | He | 3.157 | ug/l | 149.71 |
| Al | 27 | 45 | 1 | NO GAS | 0.314 | ug/l | 1530.08 |
| Si | 28 | 45 | 2 | H2 | 0.186 | ug/l | 20.66 |
| K | 39 | 72 | 3 | He | 0.479 | ug/l | 2785.80 |
| Ca | 40 | 72 | 2 | H2 | 2.416 | ug/l | 1034.53 |
| Ti | 47 | 72 | 1 | NO GAS | 0.036 | ug/l | 53.31 |
| V | 51 | 72 | 1 | NO GAS | -0.161 | ug/l | -9212.48 |
| V | 51 | 72 | 3 | He | 0.020 | ug/l | 111.11 |
| Cr | 52 | 72 | 1 | NO GAS | -0.188 | ug/l | 7423.62 |
| Cr | 52 | 72 | 3 | He | 0.031 | ug/l | 196.28 |
| Cr | 53 | 72 | 1 | NO GAS | -8.448 | ug/l | 32101.03 |
| Mn | 55 | 72 | 1 | NO GAS | 0.035 | ug/l | 1327.43 |
| Mn | 55 | 72 | 3 | He | 0.030 | ug/l | 30.00 |
| Fe | 56 | 72 | 2 | H2 | 0.953 | ug/l | 1376.06 |
| Fe | 56 | 72 | 3 | He | 1.007 | ug/l | 2285.71 |
| Co | 59 | 72 | 1 | NO GAS | 0.025 | ug/l | 459.10 |
| Ni | 60 | 72 | 1 | NO GAS | 0.038 | ug/l | 192.96 |
| Ni | 60 | 72 | 3 | He | 0.020 | ug/l | 51.11 |
| Ni | 62 | 72 | 1 | NO GAS | 0.576 | ug/l | 582.20 |
| Cu | 63 | 72 | 1 | NO GAS | 0.058 | ug/l | 969.84 |
| Cu | 63 | 72 | 3 | He | 0.010 | ug/l | 238.29 |
| Cu | 65 | 72 | 1 | NO GAS | 0.022 | ug/l | 335.27 |
| Zn | 66 | 72 | 1 | NO GAS | -0.020 | ug/l | 432.46 |
| Zn | 66 | 72 | 3 | He | -0.030 | ug/l | 80.00 |
| As | 75 | 72 | 1 | NO GAS | -0.089 | ug/l | 2846.13 |
| As | 75 | 72 | 3 | He | 0.035 | ug/l | 16.00 |
| Se | 78 | 72 | 2 | H2 | 0.016 | ug/l | 4.00 |
| Br | 79 | 72 | 1 | NO GAS | 0.007 | ug/l | 63438.47 |
| Br | 79 | 72 | 2 | H2 | 0.489 | ug/l | 9297.59 |
| Se | 82 | 72 | 1 | NO GAS | 0.430 | ug/l | 284.12 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7786.45 |
| Sr | 88 | 72 | 1 | NO GAS | 0.029 | ug/l | 1387.33 |
| Sr | 88 | 72 | 3 | He | 0.028 | ug/l | 292.23 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.083 | ug/l | 727.80 |
| Mo | 95 | 72 | 3 | He | 0.085 | ug/l | 261.12 |
| Mo | 98 | 72 | 1 | NO GAS | 0.076 | ug/l | 1173.88 |
| Ag | 107 | 72 | 1 | NO GAS | 0.017 | ug/l | 2102.39 |
| Ag | 109 | 72 | 1 | NO GAS | 0.015 | ug/l | 2011.73 |
| Cd | 111 | 159 | 1 | NO GAS | 0.022 | ug/l | 84.66 |
| Cd | 111 | 159 | 3 | He | 0.030 | ug/l | 43.32 |
| Cd | 114 | 159 | 1 | NO GAS | 0.032 | ug/l | 155.30 |
| Cd | 114 | 159 | 3 | He | 0.035 | ug/l | 92.21 |
| Sn | 118 | 159 | 1 | NO GAS | -2.547 | ug/l | 2318.92 |
| Sn | 118 | 159 | 3 | He | -2.347 | ug/l | 386.67 |
| Sb | 121 | 159 | 1 | NO GAS | 0.012 | ug/l | 432.23 |
| Sb | 121 | 159 | 3 | He | 0.012 | ug/l | 74.44 |
| Sb | 123 | 159 | 1 | NO GAS | 0.010 | ug/l | 333.34 |
| Sb | 123 | 159 | 3 | He | 0.012 | ug/l | 56.66 |
| Ba | 135 | 159 | 1 | NO GAS | 0.046 | ug/l | 239.53 |
| Ba | 137 | 159 | 1 | NO GAS | 0.035 | ug/l | 345.99 |
| La | 139 | 175 | 1 | NO GAS | 0.005 | ug/l | 457.14 |
| La | 139 | 175 | 3 | He | 0.004 | ug/l | 73.41 |
| Ce | 140 | 175 | 1 | NO GAS | 0.006 | ug/l | 507.20 |
| Ce | 140 | 175 | 3 | He | 0.007 | ug/l | 180.18 |
| Hg | 201 | 175 | 1 | NO GAS | 0.001 | ug/l | 16.00 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 73.98 |
| Hg | 202 | 175 | 3 | He | 0.002 | ug/l | 35.99 |
| Tl | 203 | 175 | 3 | He | 0.042 | ug/l | 672.55 |
| Tl | 205 | 175 | 1 | NO GAS | 0.043 | ug/l | 2982.54 |
| Tl | 205 | 175 | 3 | He | 0.041 | ug/l | 1571.11 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.032 | ug/l | 743.36 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.033 | ug/l | 674.47 |
| Pb | 208 | 175 | 1 | NO GAS | 0.032 | ug/l | 2976.81 |
| Th | 232 | 175 | 3 | He | 0.031 | ug/l | 2482.39 |
| U | 238 | 175 | 1 | NO GAS | 0.029 | ug/l | 2983.38 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1830058.02 | 98.1 |
| Sc | 45 | 2 | H2 | 76084.59 | 92.1 |
| Sc | 45 | 3 | He | 47866.95 | 95.2 |
| Ge | 72 | 1 | NO GAS | 845401.06 | 99.9 |
| Ge | 72 | 2 | H2 | 117207.50 | 98.9 |
| Ge | 72 | 3 | He | 78128.82 | 103.5 |
| Tb | 159 | 1 | NO GAS | 18585338.64 | 101.7 |
| Tb | 159 | 3 | He | 7022732.12 | 99.5 |
| Ho | 165 | 1 | NO GAS | 17485406.04 | 103.1 |
| Ho | 165 | 3 | He | 6687185.70 | 100.3 |
| Lu | 175 | 1 | NO GAS | 19134443.35 | 100.9 |
| Lu | 175 | 3 | He | 4201683.62 | 101.0 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 048_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 23:32:25
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 386.612 | ug/l | 250354.46 |
| Be | 9 | 45 | 1 | NO GAS | 39.939 | ug/l | 11363.10 |
| B | 11 | 45 | 1 | NO GAS | 38.537 | ug/l | 8274.36 |
| Na | 23 | 45 | 3 | He | 10961.827 | ug/l | 956587.31 |
| Mg | 24 | 45 | 3 | He | 10376.644 | ug/l | 460964.46 |
| Al | 27 | 45 | 1 | NO GAS | 41.515 | ug/l | 124862.21 |
| Si | 28 | 45 | 2 | H2 | 179.853 | ug/l | 3135.00 |
| K | 39 | 72 | 3 | He | 10569.038 | ug/l | 441076.88 |
| Ca | 40 | 72 | 2 | H2 | 10466.454 | ug/l | 1981976.03 |
| Ti | 47 | 72 | 1 | NO GAS | 42.990 | ug/l | 38085.87 |
| V | 51 | 72 | 1 | NO GAS | 44.814 | ug/l | 584893.54 |
| V | 51 | 72 | 3 | He | 48.765 | ug/l | 60923.75 |
| Cr | 52 | 72 | 1 | NO GAS | 44.071 | ug/l | 560867.84 |
| Cr | 52 | 72 | 3 | He | 46.277 | ug/l | 81431.13 |
| Cr | 53 | 72 | 1 | NO GAS | 40.793 | ug/l | 115687.05 |
| Mn | 55 | 72 | 1 | NO GAS | 46.010 | ug/l | 860311.60 |
| Mn | 55 | 72 | 3 | He | 47.518 | ug/l | 39305.93 |
| Fe | 56 | 72 | 2 | H2 | 1127.180 | ug/l | 1179596.24 |
| Fe | 56 | 72 | 3 | He | 1152.280 | ug/l | 1891758.29 |
| Co | 59 | 72 | 1 | NO GAS | 46.607 | ug/l | 768997.32 |
| Ni | 60 | 72 | 1 | NO GAS | 46.581 | ug/l | 171220.33 |
| Ni | 60 | 72 | 3 | He | 48.560 | ug/l | 53488.07 |
| Ni | 62 | 72 | 1 | NO GAS | 47.817 | ug/l | 27158.21 |
| Cu | 63 | 72 | 1 | NO GAS | 47.496 | ug/l | 441809.99 |
| Cu | 63 | 72 | 3 | He | 50.189 | ug/l | 164247.53 |
| Cu | 65 | 72 | 1 | NO GAS | 46.921 | ug/l | 218149.22 |
| Zn | 66 | 72 | 1 | NO GAS | 46.484 | ug/l | 141878.65 |
| Zn | 66 | 72 | 3 | He | 49.629 | ug/l | 23522.24 |
| As | 75 | 72 | 1 | NO GAS | 47.309 | ug/l | 158373.50 |
| As | 75 | 72 | 3 | He | 50.013 | ug/l | 15078.44 |
| Se | 78 | 72 | 2 | H2 | 51.388 | ug/l | 5146.45 |
| Br | 79 | 72 | 1 | NO GAS | 0.645 | ug/l | 72087.36 |
| Br | 79 | 72 | 2 | H2 | 0.902 | ug/l | 9340.86 |
| Se | 82 | 72 | 1 | NO GAS | 48.617 | ug/l | 13651.93 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 18820.17 |
| Sr | 88 | 72 | 1 | NO GAS | 48.879 | ug/l | 1853734.43 |
| Sr | 88 | 72 | 3 | He | 48.253 | ug/l | 73570.20 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 48.418 | ug/l | 403957.53 |
| Mo | 95 | 72 | 3 | He | 50.677 | ug/l | 131842.89 |
| Mo | 98 | 72 | 1 | NO GAS | 47.964 | ug/l | 684404.65 |
| Ag | 107 | 72 | 1 | NO GAS | 19.988 | ug/l | 471352.63 |
| Ag | 109 | 72 | 1 | NO GAS | 19.544 | ug/l | 453689.27 |
| Cd | 111 | 159 | 1 | NO GAS | 46.772 | ug/l | 278283.66 |
| Cd | 111 | 159 | 3 | He | 48.381 | ug/l | 66606.31 |
| Cd | 114 | 159 | 1 | NO GAS | 47.055 | ug/l | 642104.55 |
| Cd | 114 | 159 | 3 | He | 48.607 | ug/l | 173627.16 |
| Sn | 118 | 159 | 1 | NO GAS | 44.978 | ug/l | 802336.12 |
| Sn | 118 | 159 | 3 | He | 46.930 | ug/l | 120784.67 |
| Sb | 121 | 159 | 1 | NO GAS | 46.221 | ug/l | 1110744.33 |
| Sb | 121 | 159 | 3 | He | 47.012 | ug/l | 152885.48 |
| Sb | 123 | 159 | 1 | NO GAS | 46.221 | ug/l | 865313.75 |
| Sb | 123 | 159 | 3 | He | 47.683 | ug/l | 128348.96 |
| Ba | 135 | 159 | 1 | NO GAS | 47.406 | ug/l | 247698.02 |
| Ba | 137 | 159 | 1 | NO GAS | 45.263 | ug/l | 416688.67 |
| La | 139 | 175 | 1 | NO GAS | 46.101 | ug/l | 3930459.46 |
| La | 139 | 175 | 3 | He | 49.137 | ug/l | 861673.92 |
| Ce | 140 | 175 | 1 | NO GAS | 46.664 | ug/l | 3904250.65 |
| Ce | 140 | 175 | 3 | He | 48.883 | ug/l | 1089418.05 |
| Hg | 201 | 175 | 1 | NO GAS | 0.900 | ug/l | 3963.07 |
| Hg | 202 | 175 | 1 | NO GAS | 0.899 | ug/l | 8986.87 |
| Hg | 202 | 175 | 3 | He | 0.980 | ug/l | 6574.11 |
| Tl | 203 | 175 | 3 | He | 48.964 | ug/l | 672306.42 |
| Tl | 205 | 175 | 1 | NO GAS | 47.730 | ug/l | 3128406.65 |
| Tl | 205 | 175 | 3 | He | 51.039 | ug/l | 1662396.11 |
| [Pb] | 206 | 175 | 1 | NO GAS | 46.105 | ug/l | 1040593.46 |
| [Pb] | 207 | 175 | 1 | NO GAS | 45.147 | ug/l | 898734.49 |
| Pb | 208 | 175 | 1 | NO GAS | 45.717 | ug/l | 4133734.10 |
| Th | 232 | 175 | 3 | He | 49.582 | ug/l | 2431709.08 |
| U | 238 | 175 | 1 | NO GAS | 45.133 | ug/l | 4736147.36 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1913213.36 | 102.5 |
| Sc | 45 | 2 | H2 | 74930.58 | 90.7 |
| Sc | 45 | 3 | He | 48954.17 | 97.3 |
| Ge | 72 | 1 | NO GAS | 906602.56 | 107.2 |
| Ge | 72 | 2 | H2 | 113114.38 | 95.4 |
| Ge | 72 | 3 | He | 76907.54 | 101.9 |
| Tb | 159 | 1 | NO GAS | 20101491.82 | 110.1 |
| Tb | 159 | 3 | He | 6898071.21 | 97.7 |
| Ho | 165 | 1 | NO GAS | 18856683.10 | 111.1 |
| Ho | 165 | 3 | He | 6704734.86 | 100.6 |
| Lu | 175 | 1 | NO GAS | 20273146.18 | 106.9 |
| Lu | 175 | 3 | He | 4157461.09 | 99.9 |

ICPMS206-B Analytical Data

Sample Name CCB
File Name 049_CCB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 23:38:09
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.795 | ug/l | 2593.69 |
| Be | 9 | 45 | 1 | NO GAS | 0.001 | ug/l | 6.67 |
| B | 11 | 45 | 1 | NO GAS | 0.134 | ug/l | 197.96 |
| Na | 23 | 45 | 3 | He | 12.258 | ug/l | 7918.52 |
| Mg | 24 | 45 | 3 | He | -0.139 | ug/l | 6.65 |
| Al | 27 | 45 | 1 | NO GAS | -0.027 | ug/l | 577.79 |
| Si | 28 | 45 | 2 | H2 | 0.332 | ug/l | 23.33 |
| K | 39 | 72 | 3 | He | -7.152 | ug/l | 2484.65 |
| Ca | 40 | 72 | 2 | H2 | -0.150 | ug/l | 533.08 |
| Ti | 47 | 72 | 1 | NO GAS | 0.006 | ug/l | 31.65 |
| V | 51 | 72 | 1 | NO GAS | -0.301 | ug/l | -11218.96 |
| V | 51 | 72 | 3 | He | 0.045 | ug/l | 144.45 |
| Cr | 52 | 72 | 1 | NO GAS | -0.003 | ug/l | 10156.38 |
| Cr | 52 | 72 | 3 | He | -0.013 | ug/l | 119.76 |
| Cr | 53 | 72 | 1 | NO GAS | 5.757 | ug/l | 57258.52 |
| Mn | 55 | 72 | 1 | NO GAS | 0.002 | ug/l | 798.44 |
| Mn | 55 | 72 | 3 | He | -0.001 | ug/l | 4.33 |
| Fe | 56 | 72 | 2 | H2 | 0.171 | ug/l | 531.41 |
| Fe | 56 | 72 | 3 | He | 0.209 | ug/l | 962.90 |
| Co | 59 | 72 | 1 | NO GAS | -0.002 | ug/l | 39.92 |
| Ni | 60 | 72 | 1 | NO GAS | -0.001 | ug/l | 59.88 |
| Ni | 60 | 72 | 3 | He | -0.011 | ug/l | 16.67 |
| Ni | 62 | 72 | 1 | NO GAS | 0.265 | ug/l | 442.47 |
| Cu | 63 | 72 | 1 | NO GAS | 0.004 | ug/l | 531.91 |
| Cu | 63 | 72 | 3 | He | 0.000 | ug/l | 206.97 |
| Cu | 65 | 72 | 1 | NO GAS | -0.009 | ug/l | 212.62 |
| Zn | 66 | 72 | 1 | NO GAS | -0.062 | ug/l | 335.96 |
| Zn | 66 | 72 | 3 | He | -0.075 | ug/l | 58.89 |
| As | 75 | 72 | 1 | NO GAS | 0.195 | ug/l | 4030.40 |
| As | 75 | 72 | 3 | He | 0.006 | ug/l | 7.00 |
| Se | 78 | 72 | 2 | H2 | 0.019 | ug/l | 4.33 |
| Br | 79 | 72 | 1 | NO GAS | -0.242 | ug/l | 65549.73 |
| Br | 79 | 72 | 2 | H2 | 0.017 | ug/l | 8911.46 |
| Se | 82 | 72 | 1 | NO GAS | 1.193 | ug/l | 525.01 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7666.65 |
| Sr | 88 | 72 | 1 | NO GAS | 0.000 | ug/l | 349.32 |
| Sr | 88 | 72 | 3 | He | -0.011 | ug/l | 234.45 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.017 | ug/l | 223.34 |
| Mo | 95 | 72 | 3 | He | 0.020 | ug/l | 90.00 |
| Mo | 98 | 72 | 1 | NO GAS | 0.014 | ug/l | 362.24 |
| Ag | 107 | 72 | 1 | NO GAS | 0.004 | ug/l | 1921.74 |
| Ag | 109 | 72 | 1 | NO GAS | 0.011 | ug/l | 2021.73 |
| Cd | 111 | 159 | 1 | NO GAS | 0.005 | ug/l | -9.24 |
| Cd | 111 | 159 | 3 | He | 0.003 | ug/l | 4.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.003 | ug/l | -211.95 |
| Cd | 114 | 159 | 3 | He | 0.000 | ug/l | -33.54 |
| Sn | 118 | 159 | 1 | NO GAS | 0.006 | ug/l | 45037.25 |
| Sn | 118 | 159 | 3 | He | 0.135 | ug/l | 6845.96 |
| Sb | 121 | 159 | 1 | NO GAS | 0.046 | ug/l | 1273.40 |
| Sb | 121 | 159 | 3 | He | 0.041 | ug/l | 178.89 |
| Sb | 123 | 159 | 1 | NO GAS | 0.042 | ug/l | 963.37 |
| Sb | 123 | 159 | 3 | He | 0.026 | ug/l | 97.78 |
| Ba | 135 | 159 | 1 | NO GAS | 0.005 | ug/l | 39.92 |
| Ba | 137 | 159 | 1 | NO GAS | 0.003 | ug/l | 76.51 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 76.74 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 23.36 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 136.81 |
| Ce | 140 | 175 | 3 | He | 0.000 | ug/l | 10.01 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 46.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.005 | ug/l | 132.31 |
| Hg | 202 | 175 | 3 | He | 0.004 | ug/l | 54.99 |
| Tl | 203 | 175 | 3 | He | 0.005 | ug/l | 175.30 |
| Tl | 205 | 175 | 1 | NO GAS | 0.006 | ug/l | 731.13 |
| Tl | 205 | 175 | 3 | He | 0.007 | ug/l | 482.58 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.000 | ug/l | 73.33 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.003 | ug/l | 114.44 |
| Pb | 208 | 175 | 1 | NO GAS | 0.001 | ug/l | 340.00 |
| Th | 232 | 175 | 3 | He | 0.046 | ug/l | 3431.73 |
| U | 238 | 175 | 1 | NO GAS | 0.001 | ug/l | 298.61 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1978796.13 | 106.0 |
| Sc | 45 | 2 | H2 | 76532.99 | 92.7 |
| Sc | 45 | 3 | He | 49930.29 | 99.3 |
| Ge | 72 | 1 | NO GAS | 906057.91 | 107.1 |
| Ge | 72 | 2 | H2 | 117839.83 | 99.4 |
| Ge | 72 | 3 | He | 78780.68 | 104.4 |
| Tb | 159 | 1 | NO GAS | 20013969.72 | 109.6 |
| Tb | 159 | 3 | He | 7321424.35 | 103.7 |
| Ho | 165 | 1 | NO GAS | 19466432.41 | 114.7 |
| Ho | 165 | 3 | He | 7131189.74 | 107.0 |
| Lu | 175 | 1 | NO GAS | 21259213.46 | 112.1 |
| Lu | 175 | 3 | He | 4443885.14 | 106.8 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 050BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 23:43:55
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 0.563 | ug/l | 2329.70 |
| Be | 9 | 45 | 1 | NO GAS | -0.006 | ug/l | 4.00 |
| B | 11 | 45 | 1 | NO GAS | -0.076 | ug/l | 147.31 |
| Na | 23 | 45 | 3 | He | 70.586 | ug/l | 12360.03 |
| Mg | 24 | 45 | 3 | He | 0.864 | ug/l | 49.90 |
| Al | 27 | 45 | 1 | NO GAS | 0.102 | ug/l | 938.92 |
| Si | 28 | 45 | 2 | H2 | 0.176 | ug/l | 19.33 |
| K | 39 | 72 | 3 | He | -7.993 | ug/l | 2392.41 |
| Ca | 40 | 72 | 2 | H2 | 4.476 | ug/l | 1400.31 |
| Ti | 47 | 72 | 1 | NO GAS | 0.047 | ug/l | 64.97 |
| V | 51 | 72 | 1 | NO GAS | 0.159 | ug/l | -5552.04 |
| V | 51 | 72 | 3 | He | 0.050 | ug/l | 147.78 |
| Cr | 52 | 72 | 1 | NO GAS | -0.101 | ug/l | 8814.88 |
| Cr | 52 | 72 | 3 | He | 0.003 | ug/l | 143.05 |
| Cr | 53 | 72 | 1 | NO GAS | -1.915 | ug/l | 44182.69 |
| Mn | 55 | 72 | 1 | NO GAS | 0.005 | ug/l | 831.71 |
| Mn | 55 | 72 | 3 | He | 0.004 | ug/l | 8.67 |
| Fe | 56 | 72 | 2 | H2 | 0.309 | ug/l | 661.36 |
| Fe | 56 | 72 | 3 | He | 0.431 | ug/l | 1314.88 |
| Co | 59 | 72 | 1 | NO GAS | 0.003 | ug/l | 129.74 |
| Ni | 60 | 72 | 1 | NO GAS | 0.005 | ug/l | 83.17 |
| Ni | 60 | 72 | 3 | He | -0.002 | ug/l | 26.66 |
| Ni | 62 | 72 | 1 | NO GAS | 0.220 | ug/l | 412.52 |
| Cu | 63 | 72 | 1 | NO GAS | 0.001 | ug/l | 497.91 |
| Cu | 63 | 72 | 3 | He | -0.019 | ug/l | 139.64 |
| Cu | 65 | 72 | 1 | NO GAS | -0.011 | ug/l | 199.96 |
| Zn | 66 | 72 | 1 | NO GAS | -0.042 | ug/l | 389.19 |
| Zn | 66 | 72 | 3 | He | -0.053 | ug/l | 67.78 |
| As | 75 | 72 | 1 | NO GAS | -0.168 | ug/l | 2709.96 |
| As | 75 | 72 | 3 | He | 0.013 | ug/l | 9.00 |
| Se | 78 | 72 | 2 | H2 | 0.011 | ug/l | 3.33 |
| Br | 79 | 72 | 1 | NO GAS | -1.943 | ug/l | 53206.60 |
| Br | 79 | 72 | 2 | H2 | -1.889 | ug/l | 6944.44 |
| Se | 82 | 72 | 1 | NO GAS | 0.027 | ug/l | 182.98 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8448.82 |
| Sr | 88 | 72 | 1 | NO GAS | 0.007 | ug/l | 615.46 |
| Sr | 88 | 72 | 3 | He | -0.014 | ug/l | 223.34 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.010 | ug/l | 161.12 |
| Mo | 95 | 72 | 3 | He | 0.012 | ug/l | 66.66 |
| Mo | 98 | 72 | 1 | NO GAS | 0.010 | ug/l | 294.11 |
| Ag | 107 | 72 | 1 | NO GAS | 0.007 | ug/l | 1962.40 |
| Ag | 109 | 72 | 1 | NO GAS | 0.007 | ug/l | 1915.74 |
| Cd | 111 | 159 | 1 | NO GAS | 0.007 | ug/l | -1.50 |
| Cd | 111 | 159 | 3 | He | 0.003 | ug/l | 4.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.010 | ug/l | -134.78 |
| Cd | 114 | 159 | 3 | He | 0.013 | ug/l | 14.17 |
| Sn | 118 | 159 | 1 | NO GAS | -2.529 | ug/l | 2781.42 |
| Sn | 118 | 159 | 3 | He | -2.330 | ug/l | 437.79 |
| Sb | 121 | 159 | 1 | NO GAS | 0.013 | ug/l | 487.79 |
| Sb | 121 | 159 | 3 | He | 0.012 | ug/l | 76.67 |
| Sb | 123 | 159 | 1 | NO GAS | 0.011 | ug/l | 373.34 |
| Sb | 123 | 159 | 3 | He | 0.011 | ug/l | 53.33 |
| Ba | 135 | 159 | 1 | NO GAS | 0.015 | ug/l | 93.15 |
| Ba | 137 | 159 | 1 | NO GAS | 0.016 | ug/l | 199.61 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 96.76 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 16.68 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 150.16 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 53.39 |
| Hg | 201 | 175 | 1 | NO GAS | 0.003 | ug/l | 28.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.002 | ug/l | 96.31 |
| Hg | 202 | 175 | 3 | He | 0.002 | ug/l | 41.99 |
| Tl | 203 | 175 | 3 | He | 0.006 | ug/l | 177.97 |
| Tl | 205 | 175 | 1 | NO GAS | 0.005 | ug/l | 671.13 |
| Tl | 205 | 175 | 3 | He | 0.007 | ug/l | 445.92 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.003 | ug/l | 143.34 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.005 | ug/l | 152.23 |
| Pb | 208 | 175 | 1 | NO GAS | 0.004 | ug/l | 614.46 |
| Th | 232 | 175 | 3 | He | 0.023 | ug/l | 2165.07 |
| U | 238 | 175 | 1 | NO GAS | 0.003 | ug/l | 471.58 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1863188.62 | 99.8 |
| Sc | 45 | 2 | H2 | 72375.52 | 87.6 |
| Sc | 45 | 3 | He | 47198.44 | 93.8 |
| Ge | 72 | 1 | NO GAS | 881561.34 | 104.2 |
| Ge | 72 | 2 | H2 | 114258.97 | 96.4 |
| Ge | 72 | 3 | He | 76997.16 | 102.0 |
| Tb | 159 | 1 | NO GAS | 19855591.56 | 108.7 |
| Tb | 159 | 3 | He | 7160473.14 | 101.5 |
| Ho | 165 | 1 | NO GAS | 18394736.80 | 108.4 |
| Ho | 165 | 3 | He | 7044181.75 | 105.7 |
| Lu | 175 | 1 | NO GAS | 19921039.51 | 105.0 |
| Lu | 175 | 3 | He | 4289129.50 | 103.1 |

ICPMS206-B Analytical Data

Sample Name MB-162360
File Name 051_ARF.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 23:49:40
Sample Type AllRef
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.178 | ug/l | 2295.70 |
| Be | 9 | 45 | 1 | NO GAS | -0.004 | ug/l | 4.67 |
| B | 11 | 45 | 1 | NO GAS | 0.455 | ug/l | 254.62 |
| Na | 23 | 45 | 3 | He | -4.526 | ug/l | 6162.24 |
| Mg | 24 | 45 | 3 | He | 1.317 | ug/l | 69.86 |
| Al | 27 | 45 | 1 | NO GAS | 1.800 | ug/l | 5903.28 |
| Si | 28 | 45 | 2 | H2 | 9.822 | ug/l | 174.63 |
| K | 39 | 72 | 3 | He | -10.612 | ug/l | 2262.39 |
| Ca | 40 | 72 | 2 | H2 | 8.141 | ug/l | 2037.46 |
| Ti | 47 | 72 | 1 | NO GAS | 0.297 | ug/l | 289.86 |
| V | 51 | 72 | 1 | NO GAS | -1.619 | ug/l | -29345.00 |
| V | 51 | 72 | 3 | He | 0.082 | ug/l | 185.56 |
| Cr | 52 | 72 | 1 | NO GAS | 0.709 | ug/l | 19239.65 |
| Cr | 52 | 72 | 3 | He | 0.676 | ug/l | 1314.12 |
| Cr | 53 | 72 | 1 | NO GAS | 22.575 | ug/l | 86446.54 |
| Mn | 55 | 72 | 1 | NO GAS | 0.126 | ug/l | 3147.42 |
| Mn | 55 | 72 | 3 | He | 0.055 | ug/l | 49.67 |
| Fe | 56 | 72 | 2 | H2 | 3.345 | ug/l | 3750.25 |
| Fe | 56 | 72 | 3 | He | 3.706 | ug/l | 6619.76 |
| Co | 59 | 72 | 1 | NO GAS | 0.005 | ug/l | 153.03 |
| Ni | 60 | 72 | 1 | NO GAS | 0.163 | ug/l | 668.69 |
| Ni | 60 | 72 | 3 | He | 0.203 | ug/l | 250.00 |
| Ni | 62 | 72 | 1 | NO GAS | 0.477 | ug/l | 568.89 |
| Cu | 63 | 72 | 1 | NO GAS | 0.157 | ug/l | 1973.73 |
| Cu | 63 | 72 | 3 | He | 0.163 | ug/l | 728.87 |
| Cu | 65 | 72 | 1 | NO GAS | 0.156 | ug/l | 985.17 |
| Zn | 66 | 72 | 1 | NO GAS | 2.592 | ug/l | 8488.65 |
| Zn | 66 | 72 | 3 | He | 2.962 | ug/l | 1476.74 |
| As | 75 | 72 | 1 | NO GAS | -0.137 | ug/l | 2910.74 |
| As | 75 | 72 | 3 | He | 0.022 | ug/l | 11.67 |
| Se | 78 | 72 | 2 | H2 | 0.026 | ug/l | 4.67 |
| Br | 79 | 72 | 1 | NO GAS | -6.699 | ug/l | 21925.00 |
| Br | 79 | 72 | 2 | H2 | -6.637 | ug/l | 2628.37 |
| Se | 82 | 72 | 1 | NO GAS | -0.513 | ug/l | 39.25 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7902.96 |
| Sr | 88 | 72 | 1 | NO GAS | 0.022 | ug/l | 1194.35 |
| Sr | 88 | 72 | 3 | He | 0.041 | ug/l | 304.45 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.056 | ug/l | 553.35 |
| Mo | 95 | 72 | 3 | He | 0.057 | ug/l | 182.23 |
| Mo | 98 | 72 | 1 | NO GAS | 0.055 | ug/l | 954.48 |
| Ag | 107 | 72 | 1 | NO GAS | -0.053 | ug/l | 588.56 |
| Ag | 109 | 72 | 1 | NO GAS | -0.053 | ug/l | 571.23 |
| Cd | 111 | 159 | 1 | NO GAS | 0.010 | ug/l | 14.76 |
| Cd | 111 | 159 | 3 | He | 0.004 | ug/l | 6.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.018 | ug/l | -30.72 |
| Cd | 114 | 159 | 3 | He | 0.009 | ug/l | -1.12 |
| Sn | 118 | 159 | 1 | NO GAS | -2.358 | ug/l | 5906.13 |
| Sn | 118 | 159 | 3 | He | -2.155 | ug/l | 930.04 |
| Sb | 121 | 159 | 1 | NO GAS | 0.039 | ug/l | 1158.94 |
| Sb | 121 | 159 | 3 | He | 0.046 | ug/l | 201.11 |
| Sb | 123 | 159 | 1 | NO GAS | 0.038 | ug/l | 912.25 |
| Sb | 123 | 159 | 3 | He | 0.046 | ug/l | 161.11 |
| Ba | 135 | 159 | 1 | NO GAS | 0.101 | ug/l | 562.24 |
| Ba | 137 | 159 | 1 | NO GAS | 0.087 | ug/l | 888.27 |
| La | 139 | 175 | 1 | NO GAS | 0.002 | ug/l | 246.92 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 36.70 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 290.30 |
| Ce | 140 | 175 | 3 | He | 0.002 | ug/l | 60.06 |
| Hg | 201 | 175 | 1 | NO GAS | 0.009 | ug/l | 58.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.011 | ug/l | 201.30 |
| Hg | 202 | 175 | 3 | He | 0.013 | ug/l | 118.65 |
| Tl | 203 | 175 | 3 | He | 0.003 | ug/l | 137.97 |
| Tl | 205 | 175 | 1 | NO GAS | 0.003 | ug/l | 557.80 |
| Tl | 205 | 175 | 3 | He | 0.003 | ug/l | 332.60 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.028 | ug/l | 775.58 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.027 | ug/l | 650.02 |
| Pb | 208 | 175 | 1 | NO GAS | 0.028 | ug/l | 3050.15 |
| Th | 232 | 175 | 3 | He | 0.121 | ug/l | 7383.06 |
| U | 238 | 175 | 1 | NO GAS | 0.002 | ug/l | 436.92 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1849059.25 | 99.1 |
| Sc | 45 | 2 | H2 | 69827.51 | 84.5 |
| Sc | 45 | 3 | He | 47804.32 | 95.0 |
| Ge | 72 | 1 | NO GAS | 906222.69 | 107.1 |
| Ge | 72 | 2 | H2 | 110824.80 | 93.5 |
| Ge | 72 | 3 | He | 76193.07 | 100.9 |
| Tb | 159 | 1 | NO GAS | 20709753.40 | 113.4 |
| Tb | 159 | 3 | He | 7531682.41 | 106.7 |
| Ho | 165 | 1 | NO GAS | 20241892.43 | 119.3 |
| Ho | 165 | 3 | He | 7285324.65 | 109.3 |
| Lu | 175 | 1 | NO GAS | 22186808.74 | 117.0 |
| Lu | 175 | 3 | He | 4477697.23 | 107.6 |

ICPMS206-B Analytical Data

Sample Name MB-162497
File Name 052_ARF.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-18 23:55:24
Sample Type AllRef
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -0.217 | ug/l | 1956.39 |
| Be | 9 | 45 | 1 | NO GAS | 0.000 | ug/l | 6.00 |
| B | 11 | 45 | 1 | NO GAS | 0.489 | ug/l | 268.62 |
| Na | 23 | 45 | 3 | He | -7.982 | ug/l | 6174.47 |
| Mg | 24 | 45 | 3 | He | 1.095 | ug/l | 63.21 |
| Al | 27 | 45 | 1 | NO GAS | 1.929 | ug/l | 6451.26 |
| Si | 28 | 45 | 2 | H2 | 8.677 | ug/l | 167.30 |
| K | 39 | 72 | 3 | He | -11.226 | ug/l | 2362.41 |
| Ca | 40 | 72 | 2 | H2 | 20.877 | ug/l | 4566.73 |
| Ti | 47 | 72 | 1 | NO GAS | 0.252 | ug/l | 239.89 |
| V | 51 | 72 | 1 | NO GAS | -0.867 | ug/l | -18557.14 |
| V | 51 | 72 | 3 | He | 0.032 | ug/l | 131.11 |
| Cr | 52 | 72 | 1 | NO GAS | 0.291 | ug/l | 13425.43 |
| Cr | 52 | 72 | 3 | He | 0.229 | ug/l | 565.56 |
| Cr | 53 | 72 | 1 | NO GAS | 9.772 | ug/l | 62336.07 |
| Mn | 55 | 72 | 1 | NO GAS | 0.099 | ug/l | 2531.87 |
| Mn | 55 | 72 | 3 | He | 0.020 | ug/l | 22.33 |
| Fe | 56 | 72 | 2 | H2 | 1.128 | ug/l | 1537.66 |
| Fe | 56 | 72 | 3 | He | 1.290 | ug/l | 2845.52 |
| Co | 59 | 72 | 1 | NO GAS | 0.001 | ug/l | 93.15 |
| Ni | 60 | 72 | 1 | NO GAS | 0.001 | ug/l | 69.86 |
| Ni | 60 | 72 | 3 | He | 0.004 | ug/l | 34.44 |
| Ni | 62 | 72 | 1 | NO GAS | 0.158 | ug/l | 372.60 |
| Cu | 63 | 72 | 1 | NO GAS | 0.127 | ug/l | 1620.43 |
| Cu | 63 | 72 | 3 | He | 0.098 | ug/l | 547.57 |
| Cu | 65 | 72 | 1 | NO GAS | 0.107 | ug/l | 727.87 |
| Zn | 66 | 72 | 1 | NO GAS | 0.171 | ug/l | 1007.94 |
| Zn | 66 | 72 | 3 | He | 0.202 | ug/l | 197.78 |
| As | 75 | 72 | 1 | NO GAS | -0.137 | ug/l | 2752.82 |
| As | 75 | 72 | 3 | He | 0.003 | ug/l | 6.33 |
| Se | 78 | 72 | 2 | H2 | 0.049 | ug/l | 7.33 |
| Br | 79 | 72 | 1 | NO GAS | -7.287 | ug/l | 17075.22 |
| Br | 79 | 72 | 2 | H2 | -7.417 | ug/l | 2029.45 |
| Se | 82 | 72 | 1 | NO GAS | 0.828 | ug/l | 394.58 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7916.27 |
| Sr | 88 | 72 | 1 | NO GAS | 0.031 | ug/l | 1480.48 |
| Sr | 88 | 72 | 3 | He | 0.037 | ug/l | 314.45 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.035 | ug/l | 360.01 |
| Mo | 95 | 72 | 3 | He | 0.033 | ug/l | 128.89 |
| Mo | 98 | 72 | 1 | NO GAS | 0.038 | ug/l | 677.94 |
| Ag | 107 | 72 | 1 | NO GAS | -0.064 | ug/l | 319.94 |
| Ag | 109 | 72 | 1 | NO GAS | -0.062 | ug/l | 353.27 |
| Cd | 111 | 159 | 1 | NO GAS | 0.014 | ug/l | 41.56 |
| Cd | 111 | 159 | 3 | He | 0.002 | ug/l | 4.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.023 | ug/l | 49.96 |
| Cd | 114 | 159 | 3 | He | 0.006 | ug/l | -12.66 |
| Sn | 118 | 159 | 1 | NO GAS | -2.409 | ug/l | 5017.58 |
| Sn | 118 | 159 | 3 | He | -2.211 | ug/l | 790.03 |
| Sb | 121 | 159 | 1 | NO GAS | 0.023 | ug/l | 777.80 |
| Sb | 121 | 159 | 3 | He | 0.021 | ug/l | 114.44 |
| Sb | 123 | 159 | 1 | NO GAS | 0.018 | ug/l | 521.13 |
| Sb | 123 | 159 | 3 | He | 0.022 | ug/l | 90.00 |
| Ba | 135 | 159 | 1 | NO GAS | 0.052 | ug/l | 299.41 |
| Ba | 137 | 159 | 1 | NO GAS | 0.037 | ug/l | 409.20 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 96.76 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 23.36 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 240.25 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 43.38 |
| Hg | 201 | 175 | 1 | NO GAS | 0.013 | ug/l | 77.65 |
| Hg | 202 | 175 | 1 | NO GAS | 0.012 | ug/l | 215.63 |
| Hg | 202 | 175 | 3 | He | 0.016 | ug/l | 142.31 |
| Tl | 203 | 175 | 3 | He | 0.002 | ug/l | 125.31 |
| Tl | 205 | 175 | 1 | NO GAS | 0.001 | ug/l | 420.01 |
| Tl | 205 | 175 | 3 | He | 0.002 | ug/l | 315.28 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.010 | ug/l | 318.89 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.013 | ug/l | 322.23 |
| Pb | 208 | 175 | 1 | NO GAS | 0.012 | ug/l | 1405.59 |
| Th | 232 | 175 | 3 | He | 0.067 | ug/l | 4631.15 |
| U | 238 | 175 | 1 | NO GAS | 0.000 | ug/l | 137.98 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1902646.47 | 102.0 |
| Sc | 45 | 2 | H2 | 74841.50 | 90.6 |
| Sc | 45 | 3 | He | 50287.33 | 100.0 |
| Ge | 72 | 1 | NO GAS | 869158.83 | 102.7 |
| Ge | 72 | 2 | H2 | 115122.39 | 97.1 |
| Ge | 72 | 3 | He | 80574.54 | 106.8 |
| Tb | 159 | 1 | NO GAS | 20729301.70 | 113.5 |
| Tb | 159 | 3 | He | 7645473.70 | 108.3 |
| Ho | 165 | 1 | NO GAS | 19623683.20 | 115.7 |
| Ho | 165 | 3 | He | 7221648.06 | 108.3 |
| Lu | 175 | 1 | NO GAS | 21808078.35 | 115.0 |
| Lu | 175 | 3 | He | 4545455.35 | 109.2 |

ICPMS206-B Analytical Data

Sample Name MB-162992
File Name 053_ARF.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 00:01:08
Sample Type AllRef
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -0.267 | ug/l | 1938.39 |
| Be | 9 | 45 | 1 | NO GAS | 0.002 | ug/l | 6.33 |
| B | 11 | 45 | 1 | NO GAS | 0.225 | ug/l | 214.62 |
| Na | 23 | 45 | 3 | He | -6.902 | ug/l | 6257.84 |
| Mg | 24 | 45 | 3 | He | 0.806 | ug/l | 49.90 |
| Al | 27 | 45 | 1 | NO GAS | 3.364 | ug/l | 10822.06 |
| Si | 28 | 45 | 2 | H2 | 9.825 | ug/l | 183.30 |
| K | 39 | 72 | 3 | He | -10.391 | ug/l | 2291.29 |
| Ca | 40 | 72 | 2 | H2 | 32.503 | ug/l | 6766.43 |
| Ti | 47 | 72 | 1 | NO GAS | 0.341 | ug/l | 326.51 |
| V | 51 | 72 | 1 | NO GAS | -0.191 | ug/l | -10262.07 |
| V | 51 | 72 | 3 | He | 0.046 | ug/l | 142.22 |
| Cr | 52 | 72 | 1 | NO GAS | 0.137 | ug/l | 11907.33 |
| Cr | 52 | 72 | 3 | He | 0.057 | ug/l | 239.53 |
| Cr | 53 | 72 | 1 | NO GAS | 12.535 | ug/l | 68881.69 |
| Mn | 55 | 72 | 1 | NO GAS | 0.097 | ug/l | 2571.79 |
| Mn | 55 | 72 | 3 | He | 0.015 | ug/l | 17.67 |
| Fe | 56 | 72 | 2 | H2 | 1.344 | ug/l | 1754.24 |
| Fe | 56 | 72 | 3 | He | 1.668 | ug/l | 3342.04 |
| Co | 59 | 72 | 1 | NO GAS | 0.005 | ug/l | 159.69 |
| Ni | 60 | 72 | 1 | NO GAS | 0.023 | ug/l | 153.03 |
| Ni | 60 | 72 | 3 | He | -0.003 | ug/l | 24.45 |
| Ni | 62 | 72 | 1 | NO GAS | 0.224 | ug/l | 419.18 |
| Cu | 63 | 72 | 1 | NO GAS | 0.001 | ug/l | 507.91 |
| Cu | 63 | 72 | 3 | He | -0.011 | ug/l | 165.97 |
| Cu | 65 | 72 | 1 | NO GAS | -0.013 | ug/l | 191.30 |
| Zn | 66 | 72 | 1 | NO GAS | 6.457 | ug/l | 20135.58 |
| Zn | 66 | 72 | 3 | He | 6.809 | ug/l | 3310.35 |
| As | 75 | 72 | 1 | NO GAS | 0.240 | ug/l | 4102.96 |
| As | 75 | 72 | 3 | He | 0.019 | ug/l | 11.00 |
| Se | 78 | 72 | 2 | H2 | 0.014 | ug/l | 3.67 |
| Br | 79 | 72 | 1 | NO GAS | 1.889 | ug/l | 80248.06 |
| Br | 79 | 72 | 2 | H2 | 2.418 | ug/l | 10798.91 |
| Se | 82 | 72 | 1 | NO GAS | 0.491 | ug/l | 312.73 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8239.11 |
| Sr | 88 | 72 | 1 | NO GAS | 0.063 | ug/l | 2748.13 |
| Sr | 88 | 72 | 3 | He | 0.072 | ug/l | 353.34 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.141 | ug/l | 1251.17 |
| Mo | 95 | 72 | 3 | He | 0.123 | ug/l | 355.56 |
| Mo | 98 | 72 | 1 | NO GAS | 0.135 | ug/l | 2080.23 |
| Ag | 107 | 72 | 1 | NO GAS | -0.066 | ug/l | 267.28 |
| Ag | 109 | 72 | 1 | NO GAS | -0.067 | ug/l | 242.62 |
| Cd | 111 | 159 | 1 | NO GAS | 0.007 | ug/l | -1.28 |
| Cd | 111 | 159 | 3 | He | 0.001 | ug/l | 2.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.013 | ug/l | -100.69 |
| Cd | 114 | 159 | 3 | He | 0.008 | ug/l | -4.90 |
| Sn | 118 | 159 | 1 | NO GAS | -2.148 | ug/l | 9793.69 |
| Sn | 118 | 159 | 3 | He | -1.981 | ug/l | 1391.18 |
| Sb | 121 | 159 | 1 | NO GAS | 0.039 | ug/l | 1194.50 |
| Sb | 121 | 159 | 3 | He | 0.053 | ug/l | 225.56 |
| Sb | 123 | 159 | 1 | NO GAS | 0.042 | ug/l | 1008.93 |
| Sb | 123 | 159 | 3 | He | 0.045 | ug/l | 156.67 |
| Ba | 135 | 159 | 1 | NO GAS | 0.031 | ug/l | 189.63 |
| Ba | 137 | 159 | 1 | NO GAS | 0.027 | ug/l | 322.70 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 103.44 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 13.35 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 256.93 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 50.05 |
| Hg | 201 | 175 | 1 | NO GAS | 0.009 | ug/l | 59.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.011 | ug/l | 199.29 |
| Hg | 202 | 175 | 3 | He | 0.014 | ug/l | 128.64 |
| Tl | 203 | 175 | 3 | He | 0.000 | ug/l | 101.32 |
| Tl | 205 | 175 | 1 | NO GAS | 0.000 | ug/l | 345.56 |
| Tl | 205 | 175 | 3 | He | 0.000 | ug/l | 242.62 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.014 | ug/l | 412.23 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.012 | ug/l | 312.23 |
| Pb | 208 | 175 | 1 | NO GAS | 0.013 | ug/l | 1494.48 |
| Th | 232 | 175 | 3 | He | 0.058 | ug/l | 4107.77 |
| U | 238 | 175 | 1 | NO GAS | 0.000 | ug/l | 170.97 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1910401.46 | 102.4 |
| Sc | 45 | 2 | H2 | 73265.08 | 88.7 |
| Sc | 45 | 3 | He | 50186.43 | 99.8 |
| Ge | 72 | 1 | NO GAS | 896421.74 | 106.0 |
| Ge | 72 | 2 | H2 | 114324.28 | 96.5 |
| Ge | 72 | 3 | He | 76975.57 | 102.0 |
| Tb | 159 | 1 | NO GAS | 21211901.15 | 116.1 |
| Tb | 159 | 3 | He | 7520764.41 | 106.6 |
| Ho | 165 | 1 | NO GAS | 19753963.68 | 116.4 |
| Ho | 165 | 3 | He | 7237062.12 | 108.6 |
| Lu | 175 | 1 | NO GAS | 21688105.26 | 114.4 |
| Lu | 175 | 3 | He | 4466956.23 | 107.4 |

ICPMS206-B Analytical Data

Sample Name LCS4-162360
File Name 054LCS4.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 00:06:52
Sample Type LCS4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 57.127 | ug/l | 42328.02 |
| Be | 9 | 45 | 1 | NO GAS | 42.334 | ug/l | 11700.24 |
| B | 11 | 45 | 1 | NO GAS | 91.632 | ug/l | 18895.21 |
| Na | 23 | 45 | 3 | He | 4800.067 | ug/l | 412604.79 |
| Mg | 24 | 45 | 3 | He | 4757.993 | ug/l | 206248.57 |
| Al | 27 | 45 | 1 | NO GAS | 440.943 | ug/l | 1282431.46 |
| Si | 28 | 45 | 2 | H2 | 963.121 | ug/l | 15399.86 |
| K | 39 | 72 | 3 | He | 4458.080 | ug/l | 183850.71 |
| Ca | 40 | 72 | 2 | H2 | 4306.029 | ug/l | 793339.20 |
| Ti | 47 | 72 | 1 | NO GAS | 89.247 | ug/l | 79835.86 |
| V | 51 | 72 | 1 | NO GAS | 95.647 | ug/l | 1269361.40 |
| V | 51 | 72 | 3 | He | 97.781 | ug/l | 119638.48 |
| Cr | 52 | 72 | 1 | NO GAS | 93.207 | ug/l | 1180254.19 |
| Cr | 52 | 72 | 3 | He | 99.322 | ug/l | 171177.07 |
| Cr | 53 | 72 | 1 | NO GAS | 102.824 | ug/l | 220822.90 |
| Mn | 55 | 72 | 1 | NO GAS | 470.593 | ug/l | 8872077.53 |
| Mn | 55 | 72 | 3 | He | 490.512 | ug/l | 397540.98 |
| Fe | 56 | 72 | 2 | H2 | 445.599 | ug/l | 453965.77 |
| Fe | 56 | 72 | 3 | He | 466.950 | ug/l | 751494.03 |
| Co | 59 | 72 | 1 | NO GAS | 98.302 | ug/l | 1637574.36 |
| Ni | 60 | 72 | 1 | NO GAS | 94.181 | ug/l | 348551.96 |
| Ni | 60 | 72 | 3 | He | 102.022 | ug/l | 110079.87 |
| Ni | 62 | 72 | 1 | NO GAS | 94.940 | ug/l | 54006.95 |
| Cu | 63 | 72 | 1 | NO GAS | 95.046 | ug/l | 891747.09 |
| Cu | 63 | 72 | 3 | He | 102.871 | ug/l | 329793.69 |
| Cu | 65 | 72 | 1 | NO GAS | 97.571 | ug/l | 457277.52 |
| Zn | 66 | 72 | 1 | NO GAS | 90.536 | ug/l | 279556.56 |
| Zn | 66 | 72 | 3 | He | 93.828 | ug/l | 43509.65 |
| As | 75 | 72 | 1 | NO GAS | 94.029 | ug/l | 313696.88 |
| As | 75 | 72 | 3 | He | 93.675 | ug/l | 27675.62 |
| Se | 78 | 72 | 2 | H2 | 94.722 | ug/l | 9226.39 |
| Br | 79 | 72 | 1 | NO GAS | -6.485 | ug/l | 23433.68 |
| Br | 79 | 72 | 2 | H2 | -6.498 | ug/l | 2734.82 |
| Se | 82 | 72 | 1 | NO GAS | 92.668 | ug/l | 26087.07 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 31354.51 |
| Sr | 88 | 72 | 1 | NO GAS | 103.110 | ug/l | 3959234.18 |
| Sr | 88 | 72 | 3 | He | 106.068 | ug/l | 158235.85 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 103.288 | ug/l | 869434.40 |
| Mo | 95 | 72 | 3 | He | 108.440 | ug/l | 276441.42 |
| Mo | 98 | 72 | 1 | NO GAS | 103.872 | ug/l | 1493152.39 |
| Ag | 107 | 72 | 1 | NO GAS | 10.580 | ug/l | 252430.45 |
| Ag | 109 | 72 | 1 | NO GAS | 10.581 | ug/l | 248463.40 |
| Cd | 111 | 159 | 1 | NO GAS | 46.675 | ug/l | 296985.69 |
| Cd | 111 | 159 | 3 | He | 48.058 | ug/l | 69583.04 |
| Cd | 114 | 159 | 1 | NO GAS | 47.072 | ug/l | 685652.36 |
| Cd | 114 | 159 | 3 | He | 46.914 | ug/l | 176160.04 |
| Sn | 118 | 159 | 1 | NO GAS | 99.506 | ug/l | 1839260.50 |
| Sn | 118 | 159 | 3 | He | 94.971 | ug/l | 250473.37 |
| Sb | 121 | 159 | 1 | NO GAS | 94.364 | ug/l | 2421075.22 |
| Sb | 121 | 159 | 3 | He | 92.810 | ug/l | 317201.60 |
| Sb | 123 | 159 | 1 | NO GAS | 95.303 | ug/l | 1904784.36 |
| Sb | 123 | 159 | 3 | He | 92.693 | ug/l | 262275.83 |
| Ba | 135 | 159 | 1 | NO GAS | 91.308 | ug/l | 508999.95 |
| Ba | 137 | 159 | 1 | NO GAS | 88.639 | ug/l | 871787.50 |
| La | 139 | 175 | 1 | NO GAS | 93.163 | ug/l | 8796821.41 |
| La | 139 | 175 | 3 | He | 99.063 | ug/l | 1821121.89 |
| Ce | 140 | 175 | 1 | NO GAS | 94.940 | ug/l | 878414.75 |
| Ce | 140 | 175 | 3 | He | 98.816 | ug/l | 2308630.58 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 47.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.011 | ug/l | 204.96 |
| Hg | 202 | 175 | 3 | He | 0.007 | ug/l | 77.65 |
| Tl | 203 | 175 | 3 | He | 103.273 | ug/l | 1486294.97 |
| Tl | 205 | 175 | 1 | NO GAS | 99.852 | ug/l | 7241647.12 |
| Tl | 205 | 175 | 3 | He | 106.315 | ug/l | 3627608.32 |
| [Pb] | 206 | 175 | 1 | NO GAS | 102.669 | ug/l | 2572692.20 |
| [Pb] | 207 | 175 | 1 | NO GAS | 99.642 | ug/l | 2196383.21 |
| Pb | 208 | 175 | 1 | NO GAS | 101.823 | ug/l | 10206117.17 |
| Th | 232 | 175 | 3 | He | 102.916 | ug/l | 5289570.29 |
| U | 238 | 175 | 1 | NO GAS | 99.028 | ug/l | 11525665.32 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1856850.03 | 99.5 |
| Sc | 45 | 2 | H2 | 68924.04 | 83.5 |
| Sc | 45 | 3 | He | 47770.73 | 95.0 |
| Ge | 72 | 1 | NO GAS | 919392.06 | 108.7 |
| Ge | 72 | 2 | H2 | 110042.82 | 92.9 |
| Ge | 72 | 3 | He | 75404.06 | 99.9 |
| Tb | 159 | 1 | NO GAS | 21474288.11 | 117.6 |
| Tb | 159 | 3 | He | 7249036.59 | 102.7 |
| Ho | 165 | 1 | NO GAS | 20555831.77 | 121.1 |
| Ho | 165 | 3 | He | 6891500.16 | 103.4 |
| Lu | 175 | 1 | NO GAS | 22533131.09 | 118.8 |
| Lu | 175 | 3 | He | 4356958.31 | 104.7 |

ICPMS206-B Analytical Data

Sample Name LCS4-162497
File Name 055LCS4.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 00:12:26
Sample Type LCS4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 59.188 | ug/l | 44085.75 |
| Be | 9 | 45 | 1 | NO GAS | 42.352 | ug/l | 11868.99 |
| B | 11 | 45 | 1 | NO GAS | 90.272 | ug/l | 18877.17 |
| Na | 23 | 45 | 3 | He | 4957.275 | ug/l | 445048.82 |
| Mg | 24 | 45 | 3 | He | 4754.320 | ug/l | 215445.35 |
| Al | 27 | 45 | 1 | NO GAS | 453.266 | ug/l | 1336478.69 |
| Si | 28 | 45 | 2 | H2 | 976.311 | ug/l | 16331.21 |
| K | 39 | 72 | 3 | He | 4674.096 | ug/l | 192657.84 |
| Ca | 40 | 72 | 2 | H2 | 4228.972 | ug/l | 811541.25 |
| Ti | 47 | 72 | 1 | NO GAS | 89.932 | ug/l | 81228.70 |
| V | 51 | 72 | 1 | NO GAS | 95.107 | ug/l | 1269879.53 |
| V | 51 | 72 | 3 | He | 102.457 | ug/l | 125423.83 |
| Cr | 52 | 72 | 1 | NO GAS | 93.021 | ug/l | 1190992.32 |
| Cr | 52 | 72 | 3 | He | 99.917 | ug/l | 172161.99 |
| Cr | 53 | 72 | 1 | NO GAS | 105.565 | ug/l | 227699.05 |
| Mn | 55 | 72 | 1 | NO GAS | 484.721 | ug/l | 9214142.26 |
| Mn | 55 | 72 | 3 | He | 507.536 | ug/l | 411414.63 |
| Fe | 56 | 72 | 2 | H2 | 452.055 | ug/l | 479576.60 |
| Fe | 56 | 72 | 3 | He | 483.766 | ug/l | 778912.67 |
| Co | 59 | 72 | 1 | NO GAS | 96.883 | ug/l | 1623619.69 |
| Ni | 60 | 72 | 1 | NO GAS | 95.198 | ug/l | 355371.79 |
| Ni | 60 | 72 | 3 | He | 102.772 | ug/l | 110909.51 |
| Ni | 62 | 72 | 1 | NO GAS | 96.502 | ug/l | 55441.57 |
| Cu | 63 | 72 | 1 | NO GAS | 96.010 | ug/l | 908237.70 |
| Cu | 63 | 72 | 3 | He | 106.666 | ug/l | 341924.88 |
| Cu | 65 | 72 | 1 | NO GAS | 98.235 | ug/l | 464243.36 |
| Zn | 66 | 72 | 1 | NO GAS | 88.726 | ug/l | 275603.22 |
| Zn | 66 | 72 | 3 | He | 94.428 | ug/l | 43772.62 |
| As | 75 | 72 | 1 | NO GAS | 94.076 | ug/l | 316813.28 |
| As | 75 | 72 | 3 | He | 96.957 | ug/l | 28643.73 |
| Se | 78 | 72 | 2 | H2 | 94.482 | ug/l | 9582.51 |
| Br | 79 | 72 | 1 | NO GAS | -7.182 | ug/l | 18770.23 |
| Br | 79 | 72 | 2 | H2 | -6.871 | ug/l | 2508.58 |
| Se | 82 | 72 | 1 | NO GAS | 93.912 | ug/l | 26742.57 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 30734.63 |
| Sr | 88 | 72 | 1 | NO GAS | 105.323 | ug/l | 4074423.00 |
| Sr | 88 | 72 | 3 | He | 108.626 | ug/l | 162028.40 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 104.018 | ug/l | 882678.48 |
| Mo | 95 | 72 | 3 | He | 112.103 | ug/l | 285759.31 |
| Mo | 98 | 72 | 1 | NO GAS | 106.603 | ug/l | 1547547.22 |
| Ag | 107 | 72 | 1 | NO GAS | 10.575 | ug/l | 254493.76 |
| Ag | 109 | 72 | 1 | NO GAS | 10.647 | ug/l | 252226.79 |
| Cd | 111 | 159 | 1 | NO GAS | 48.058 | ug/l | 304119.07 |
| Cd | 111 | 159 | 3 | He | 48.129 | ug/l | 70042.97 |
| Cd | 114 | 159 | 1 | NO GAS | 48.194 | ug/l | 698180.59 |
| Cd | 114 | 159 | 3 | He | 48.195 | ug/l | 181953.93 |
| Sn | 118 | 159 | 1 | NO GAS | 98.781 | ug/l | 1818431.56 |
| Sn | 118 | 159 | 3 | He | 98.940 | ug/l | 262082.83 |
| Sb | 121 | 159 | 1 | NO GAS | 96.195 | ug/l | 2461845.85 |
| Sb | 121 | 159 | 3 | He | 95.964 | ug/l | 329706.59 |
| Sb | 123 | 159 | 1 | NO GAS | 99.020 | ug/l | 1971712.16 |
| Sb | 123 | 159 | 3 | He | 96.151 | ug/l | 273531.70 |
| Ba | 135 | 159 | 1 | NO GAS | 94.392 | ug/l | 524105.17 |
| Ba | 137 | 159 | 1 | NO GAS | 92.300 | ug/l | 904283.87 |
| La | 139 | 175 | 1 | NO GAS | 94.965 | ug/l | 9045838.96 |
| La | 139 | 175 | 3 | He | 101.427 | ug/l | 1860032.06 |
| Ce | 140 | 175 | 1 | NO GAS | 96.220 | ug/l | 8985658.47 |
| Ce | 140 | 175 | 3 | He | 101.524 | ug/l | 2366271.97 |
| Hg | 201 | 175 | 1 | NO GAS | 0.008 | ug/l | 57.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.009 | ug/l | 189.63 |
| Hg | 202 | 175 | 3 | He | 0.010 | ug/l | 99.65 |
| Tl | 203 | 175 | 3 | He | 104.966 | ug/l | 1506850.32 |
| Tl | 205 | 175 | 1 | NO GAS | 97.719 | ug/l | 7138381.56 |
| Tl | 205 | 175 | 3 | He | 108.195 | ug/l | 3682389.86 |
| [Pb] | 206 | 175 | 1 | NO GAS | 100.968 | ug/l | 2548316.01 |
| [Pb] | 207 | 175 | 1 | NO GAS | 97.596 | ug/l | 2168949.00 |
| Pb | 208 | 175 | 1 | NO GAS | 98.651 | ug/l | 9967201.56 |
| Th | 232 | 175 | 3 | He | 106.409 | ug/l | 5455669.06 |
| U | 238 | 175 | 1 | NO GAS | 97.028 | ug/l | 11393862.35 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1860979.12 | 99.7 |
| Sc | 45 | 2 | H2 | 72217.57 | 87.4 |
| Sc | 45 | 3 | He | 49927.95 | 99.3 |
| Ge | 72 | 1 | NO GAS | 915758.38 | 108.3 |
| Ge | 72 | 2 | H2 | 114585.45 | 96.7 |
| Ge | 72 | 3 | He | 75396.03 | 99.9 |
| Tb | 159 | 1 | NO GAS | 21152827.71 | 115.8 |
| Tb | 159 | 3 | He | 7290423.92 | 103.3 |
| Ho | 165 | 1 | NO GAS | 20472547.24 | 120.7 |
| Ho | 165 | 3 | He | 7031236.82 | 105.5 |
| Lu | 175 | 1 | NO GAS | 22461079.45 | 118.4 |
| Lu | 175 | 3 | He | 4346508.65 | 104.5 |

ICPMS206-B Analytical Data

Sample Name LCS4-162992
File Name 056LCS4.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 00:18:02
Sample Type LCS4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 60.152 | ug/l | 43342.83 |
| Be | 9 | 45 | 1 | NO GAS | 43.139 | ug/l | 11609.18 |
| B | 11 | 45 | 1 | NO GAS | 94.467 | ug/l | 18961.88 |
| Na | 23 | 45 | 3 | He | 4842.809 | ug/l | 426917.17 |
| Mg | 24 | 45 | 3 | He | 4719.162 | ug/l | 209857.12 |
| Al | 27 | 45 | 1 | NO GAS | 450.488 | ug/l | 1275554.98 |
| Si | 28 | 45 | 2 | H2 | 980.950 | ug/l | 15678.03 |
| K | 39 | 72 | 3 | He | 4528.325 | ug/l | 188910.44 |
| Ca | 40 | 72 | 2 | H2 | 4386.719 | ug/l | 792879.76 |
| Ti | 47 | 72 | 1 | NO GAS | 87.429 | ug/l | 78222.56 |
| V | 51 | 72 | 1 | NO GAS | 90.454 | ug/l | 1195598.40 |
| V | 51 | 72 | 3 | He | 98.416 | ug/l | 121820.20 |
| Cr | 52 | 72 | 1 | NO GAS | 91.818 | ug/l | 1164431.73 |
| Cr | 52 | 72 | 3 | He | 99.943 | ug/l | 174305.45 |
| Cr | 53 | 72 | 1 | NO GAS | 103.916 | ug/l | 222633.41 |
| Mn | 55 | 72 | 1 | NO GAS | 492.484 | ug/l | 9274462.56 |
| Mn | 55 | 72 | 3 | He | 488.627 | ug/l | 400764.98 |
| Fe | 56 | 72 | 2 | H2 | 459.456 | ug/l | 459147.93 |
| Fe | 56 | 72 | 3 | He | 465.225 | ug/l | 757686.29 |
| Co | 59 | 72 | 1 | NO GAS | 99.729 | ug/l | 1656640.74 |
| Ni | 60 | 72 | 1 | NO GAS | 95.284 | ug/l | 352464.57 |
| Ni | 60 | 72 | 3 | He | 100.568 | ug/l | 109863.26 |
| Ni | 62 | 72 | 1 | NO GAS | 99.270 | ug/l | 56469.45 |
| Cu | 63 | 72 | 1 | NO GAS | 95.821 | ug/l | 897884.82 |
| Cu | 63 | 72 | 3 | He | 103.037 | ug/l | 334230.11 |
| Cu | 65 | 72 | 1 | NO GAS | 96.865 | ug/l | 453574.00 |
| Zn | 66 | 72 | 1 | NO GAS | 90.830 | ug/l | 279679.13 |
| Zn | 66 | 72 | 3 | He | 93.132 | ug/l | 43683.44 |
| As | 75 | 72 | 1 | NO GAS | 94.679 | ug/l | 315737.19 |
| As | 75 | 72 | 3 | He | 94.708 | ug/l | 28317.92 |
| Se | 78 | 72 | 2 | H2 | 98.020 | ug/l | 9363.10 |
| Br | 79 | 72 | 1 | NO GAS | 0.110 | ug/l | 68879.36 |
| Br | 79 | 72 | 2 | H2 | 1.273 | ug/l | 9224.36 |
| Se | 82 | 72 | 1 | NO GAS | 93.187 | ug/l | 26277.69 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 30837.65 |
| Sr | 88 | 72 | 1 | NO GAS | 104.210 | ug/l | 3990636.93 |
| Sr | 88 | 72 | 3 | He | 105.738 | ug/l | 159568.42 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 104.289 | ug/l | 876882.59 |
| Mo | 95 | 72 | 3 | He | 106.733 | ug/l | 275369.25 |
| Mo | 98 | 72 | 1 | NO GAS | 103.153 | ug/l | 1483998.15 |
| Ag | 107 | 72 | 1 | NO GAS | 10.865 | ug/l | 258981.29 |
| Ag | 109 | 72 | 1 | NO GAS | 10.681 | ug/l | 250693.14 |
| Cd | 111 | 159 | 1 | NO GAS | 47.143 | ug/l | 294493.14 |
| Cd | 111 | 159 | 3 | He | 47.137 | ug/l | 68836.21 |
| Cd | 114 | 159 | 1 | NO GAS | 48.590 | ug/l | 694879.07 |
| Cd | 114 | 159 | 3 | He | 47.474 | ug/l | 179800.28 |
| Sn | 118 | 159 | 1 | NO GAS | 100.716 | ug/l | 1829706.21 |
| Sn | 118 | 159 | 3 | He | 97.339 | ug/l | 258769.97 |
| Sb | 121 | 159 | 1 | NO GAS | 95.764 | ug/l | 2419454.46 |
| Sb | 121 | 159 | 3 | He | 92.338 | ug/l | 318340.64 |
| Sb | 123 | 159 | 1 | NO GAS | 99.534 | ug/l | 1956784.24 |
| Sb | 123 | 159 | 3 | He | 93.404 | ug/l | 266600.55 |
| Ba | 135 | 159 | 1 | NO GAS | 94.321 | ug/l | 516948.31 |
| Ba | 137 | 159 | 1 | NO GAS | 92.841 | ug/l | 897983.85 |
| La | 139 | 175 | 1 | NO GAS | 95.336 | ug/l | 8999405.13 |
| La | 139 | 175 | 3 | He | 102.067 | ug/l | 1869219.49 |
| Ce | 140 | 175 | 1 | NO GAS | 94.787 | ug/l | 8773261.70 |
| Ce | 140 | 175 | 3 | He | 103.936 | ug/l | 2419035.46 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 48.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.010 | ug/l | 191.96 |
| Hg | 202 | 175 | 3 | He | 0.011 | ug/l | 102.65 |
| Tl | 203 | 175 | 3 | He | 104.656 | ug/l | 1500782.48 |
| Tl | 205 | 175 | 1 | NO GAS | 97.803 | ug/l | 7082880.31 |
| Tl | 205 | 175 | 3 | He | 105.924 | ug/l | 3600892.45 |
| [Pb] | 206 | 175 | 1 | NO GAS | 99.915 | ug/l | 2498864.18 |
| [Pb] | 207 | 175 | 1 | NO GAS | 97.552 | ug/l | 2146655.94 |
| Pb | 208 | 175 | 1 | NO GAS | 99.069 | ug/l | 9916008.83 |
| Th | 232 | 175 | 3 | He | 104.402 | ug/l | 5346201.58 |
| U | 238 | 175 | 1 | NO GAS | 100.524 | ug/l | 11697462.37 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1789151.01 | 95.9 |
| Sc | 45 | 2 | H2 | 68949.01 | 83.5 |
| Sc | 45 | 3 | He | 49007.25 | 97.4 |
| Ge | 72 | 1 | NO GAS | 906455.86 | 107.2 |
| Ge | 72 | 2 | H2 | 107941.60 | 91.1 |
| Ge | 72 | 3 | He | 76301.39 | 101.1 |
| Tb | 159 | 1 | NO GAS | 20882730.95 | 114.3 |
| Tb | 159 | 3 | He | 7311728.71 | 103.6 |
| Ho | 165 | 1 | NO GAS | 19828509.90 | 116.9 |
| Ho | 165 | 3 | He | 7007060.83 | 105.1 |
| Lu | 175 | 1 | NO GAS | 22268385.73 | 117.4 |
| Lu | 175 | 3 | He | 4340079.93 | 104.3 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 057BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 00:23:38
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | -0.843 | ug/l | 1467.11 |
| Be | 9 | 45 | 1 | NO GAS | 0.001 | ug/l | 6.00 |
| B | 11 | 45 | 1 | NO GAS | 0.154 | ug/l | 192.63 |
| Na | 23 | 45 | 3 | He | 79.793 | ug/l | 13296.26 |
| Mg | 24 | 45 | 3 | He | 0.020 | ug/l | 13.31 |
| Al | 27 | 45 | 1 | NO GAS | 0.178 | ug/l | 1145.60 |
| Si | 28 | 45 | 2 | H2 | 0.148 | ug/l | 18.67 |
| K | 39 | 72 | 3 | He | -10.472 | ug/l | 2293.51 |
| Ca | 40 | 72 | 2 | H2 | 0.560 | ug/l | 636.37 |
| Ti | 47 | 72 | 1 | NO GAS | 0.059 | ug/l | 74.96 |
| V | 51 | 72 | 1 | NO GAS | -0.099 | ug/l | -8589.91 |
| V | 51 | 72 | 3 | He | 0.005 | ug/l | 91.11 |
| Cr | 52 | 72 | 1 | NO GAS | -0.124 | ug/l | 8428.80 |
| Cr | 52 | 72 | 3 | He | -0.010 | ug/l | 123.09 |
| Cr | 53 | 72 | 1 | NO GAS | -4.398 | ug/l | 39763.89 |
| Mn | 55 | 72 | 1 | NO GAS | 0.001 | ug/l | 755.19 |
| Mn | 55 | 72 | 3 | He | 0.011 | ug/l | 14.00 |
| Fe | 56 | 72 | 2 | H2 | 0.102 | ug/l | 431.46 |
| Fe | 56 | 72 | 3 | He | 0.194 | ug/l | 917.91 |
| Co | 59 | 72 | 1 | NO GAS | 0.001 | ug/l | 86.49 |
| Ni | 60 | 72 | 1 | NO GAS | 0.012 | ug/l | 109.78 |
| Ni | 60 | 72 | 3 | He | -0.001 | ug/l | 26.67 |
| Ni | 62 | 72 | 1 | NO GAS | 0.227 | ug/l | 419.18 |
| Cu | 63 | 72 | 1 | NO GAS | 0.002 | ug/l | 508.58 |
| Cu | 63 | 72 | 3 | He | -0.013 | ug/l | 160.30 |
| Cu | 65 | 72 | 1 | NO GAS | -0.006 | ug/l | 222.63 |
| Zn | 66 | 72 | 1 | NO GAS | 0.134 | ug/l | 911.52 |
| Zn | 66 | 72 | 3 | He | 0.123 | ug/l | 151.11 |
| As | 75 | 72 | 1 | NO GAS | 0.067 | ug/l | 3421.96 |
| As | 75 | 72 | 3 | He | 0.002 | ug/l | 5.67 |
| Se | 78 | 72 | 2 | H2 | 0.008 | ug/l | 3.00 |
| Br | 79 | 72 | 1 | NO GAS | -1.850 | ug/l | 53420.15 |
| Br | 79 | 72 | 2 | H2 | -1.416 | ug/l | 7184.05 |
| Se | 82 | 72 | 1 | NO GAS | 0.556 | ug/l | 326.04 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7799.77 |
| Sr | 88 | 72 | 1 | NO GAS | 0.003 | ug/l | 465.75 |
| Sr | 88 | 72 | 3 | He | 0.012 | ug/l | 263.34 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.011 | ug/l | 167.78 |
| Mo | 95 | 72 | 3 | He | 0.004 | ug/l | 45.55 |
| Mo | 98 | 72 | 1 | NO GAS | 0.007 | ug/l | 262.65 |
| Ag | 107 | 72 | 1 | NO GAS | 0.008 | ug/l | 1951.07 |
| Ag | 109 | 72 | 1 | NO GAS | 0.005 | ug/l | 1847.74 |
| Cd | 111 | 159 | 1 | NO GAS | 0.007 | ug/l | -7.37 |
| Cd | 111 | 159 | 3 | He | 0.002 | ug/l | 3.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.013 | ug/l | -103.82 |
| Cd | 114 | 159 | 3 | He | 0.013 | ug/l | 14.05 |
| Sn | 118 | 159 | 1 | NO GAS | -2.514 | ug/l | 3054.25 |
| Sn | 118 | 159 | 3 | He | -2.342 | ug/l | 417.79 |
| Sb | 121 | 159 | 1 | NO GAS | 0.025 | ug/l | 793.36 |
| Sb | 121 | 159 | 3 | He | 0.021 | ug/l | 106.67 |
| Sb | 123 | 159 | 1 | NO GAS | 0.022 | ug/l | 580.01 |
| Sb | 123 | 159 | 3 | He | 0.023 | ug/l | 91.11 |
| Ba | 135 | 159 | 1 | NO GAS | 0.025 | ug/l | 143.05 |
| Ba | 137 | 159 | 1 | NO GAS | 0.017 | ug/l | 209.59 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 126.80 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 33.37 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 193.54 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 36.70 |
| Hg | 201 | 175 | 1 | NO GAS | 0.001 | ug/l | 17.67 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 81.98 |
| Hg | 202 | 175 | 3 | He | 0.002 | ug/l | 38.32 |
| Tl | 203 | 175 | 3 | He | 0.422 | ug/l | 6184.72 |
| Tl | 205 | 175 | 1 | NO GAS | 0.381 | ug/l | 26699.66 |
| Tl | 205 | 175 | 3 | He | 0.442 | ug/l | 15340.72 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.005 | ug/l | 190.00 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.003 | ug/l | 120.00 |
| Pb | 208 | 175 | 1 | NO GAS | 0.004 | ug/l | 670.01 |
| Th | 232 | 175 | 3 | He | 0.083 | ug/l | 5274.57 |
| U | 238 | 175 | 1 | NO GAS | 0.007 | ug/l | 876.85 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1862948.43 | 99.8 |
| Sc | 45 | 2 | H2 | 71871.03 | 87.0 |
| Sc | 45 | 3 | He | 47795.53 | 95.0 |
| Ge | 72 | 1 | NO GAS | 884453.16 | 104.6 |
| Ge | 72 | 2 | H2 | 111498.09 | 94.1 |
| Ge | 72 | 3 | He | 77080.91 | 102.1 |
| Tb | 159 | 1 | NO GAS | 20074185.35 | 109.9 |
| Tb | 159 | 3 | He | 7362562.61 | 104.3 |
| Ho | 165 | 1 | NO GAS | 19058914.91 | 112.3 |
| Ho | 165 | 3 | He | 6922920.02 | 103.8 |
| Lu | 175 | 1 | NO GAS | 21337286.74 | 112.5 |
| Lu | 175 | 3 | He | 4367746.76 | 105.0 |

ICPMS206-B Analytical Data

Sample Name B21121609-001A
File Name 058SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 00:29:22
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | -0.521 | ug/l | 1754.74 |
| Be | 9 | 45 | 1 | NO GAS | 0.017 | ug/l | 10.00 |
| B | 11 | 45 | 1 | NO GAS | 194.033 | ug/l | 38391.86 |
| Na | 23 | 45 | 3 | He | 85932.541 | ug/l | 6693145.04 |
| Mg | 24 | 45 | 3 | He | 33783.472 | ug/l | 1347473.71 |
| Al | 27 | 45 | 1 | NO GAS | 721.225 | ug/l | 2021596.01 |
| Si | 28 | 45 | 2 | H2 | 20129.489 | ug/l | 308708.21 |
| K | 39 | 72 | 3 | He | 2585.146 | ug/l | 101306.02 |
| Ca | 40 | 72 | 2 | H2 | 32328.261 | ug/l | 5574461.91 |
| Ti | 47 | 72 | 1 | NO GAS | 62.678 | ug/l | 52732.38 |
| V | 51 | 72 | 1 | NO GAS | 9.498 | ug/l | 111830.82 |
| V | 51 | 72 | 3 | He | 11.170 | ug/l | 12920.57 |
| Cr | 52 | 72 | 1 | NO GAS | 5.517 | ug/l | 74994.25 |
| Cr | 52 | 72 | 3 | He | 5.229 | ug/l | 8591.89 |
| Cr | 53 | 72 | 1 | NO GAS | 40.756 | ug/l | 109966.05 |
| Mn | 55 | 72 | 1 | NO GAS | 377.557 | ug/l | 6686920.03 |
| Mn | 55 | 72 | 3 | He | 386.661 | ug/l | 294695.27 |
| Fe | 56 | 72 | 2 | H2 | 2441.819 | ug/l | 2327732.76 |
| Fe | 56 | 72 | 3 | He | 2580.836 | ug/l | 3904694.52 |
| Co | 59 | 72 | 1 | NO GAS | 2.727 | ug/l | 42696.84 |
| Ni | 60 | 72 | 1 | NO GAS | 19.383 | ug/l | 67478.77 |
| Ni | 60 | 72 | 3 | He | 18.565 | ug/l | 18859.58 |
| Ni | 62 | 72 | 1 | NO GAS | 19.387 | ug/l | 10599.10 |
| Cu | 63 | 72 | 1 | NO GAS | 13.039 | ug/l | 115342.95 |
| Cu | 63 | 72 | 3 | He | 12.320 | ug/l | 37290.24 |
| Cu | 65 | 72 | 1 | NO GAS | 12.158 | ug/l | 53764.35 |
| Zn | 66 | 72 | 1 | NO GAS | 53.698 | ug/l | 155683.23 |
| Zn | 66 | 72 | 3 | He | 55.730 | ug/l | 24329.96 |
| As | 75 | 72 | 1 | NO GAS | 1.438 | ug/l | 7624.87 |
| As | 75 | 72 | 3 | He | 1.592 | ug/l | 446.92 |
| Se | 78 | 72 | 2 | H2 | 2.536 | ug/l | 233.29 |
| Br | 79 | 72 | 1 | NO GAS | 4.182 | ug/l | 91209.09 |
| Br | 79 | 72 | 2 | H2 | 6.029 | ug/l | 12623.31 |
| Se | 82 | 72 | 1 | NO GAS | 3.272 | ug/l | 1038.04 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 73193.47 |
| Sr | 88 | 72 | 1 | NO GAS | 311.189 | ug/l | 11203007.50 |
| Sr | 88 | 72 | 3 | He | 305.948 | ug/l | 428763.35 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 0.744 | ug/l | 5958.91 |
| Mo | 95 | 72 | 3 | He | 0.712 | ug/l | 1739.00 |
| Mo | 98 | 72 | 1 | NO GAS | 0.719 | ug/l | 9885.57 |
| Ag | 107 | 72 | 1 | NO GAS | -0.029 | ug/l | 1091.16 |
| Ag | 109 | 72 | 1 | NO GAS | -0.029 | ug/l | 1063.83 |
| Cd | 111 | 159 | 1 | NO GAS | 0.320 | ug/l | 1897.57 |
| Cd | 111 | 159 | 3 | He | 0.342 | ug/l | 486.58 |
| Cd | 114 | 159 | 1 | NO GAS | 0.339 | ug/l | 4442.67 |
| Cd | 114 | 159 | 3 | He | 0.354 | ug/l | 1271.81 |
| Sn | 118 | 159 | 1 | NO GAS | -1.959 | ug/l | 12660.02 |
| Sn | 118 | 159 | 3 | He | -1.818 | ug/l | 1727.89 |
| Sb | 121 | 159 | 1 | NO GAS | 0.759 | ug/l | 18813.31 |
| Sb | 121 | 159 | 3 | He | 0.728 | ug/l | 2480.21 |
| Sb | 123 | 159 | 1 | NO GAS | 0.778 | ug/l | 15044.94 |
| Sb | 123 | 159 | 3 | He | 0.700 | ug/l | 1970.14 |
| Ba | 135 | 159 | 1 | NO GAS | 59.995 | ug/l | 319800.35 |
| Ba | 137 | 159 | 1 | NO GAS | 58.644 | ug/l | 551468.13 |
| La | 139 | 175 | 1 | NO GAS | 0.349 | ug/l | 32499.68 |
| La | 139 | 175 | 3 | He | 0.343 | ug/l | 6277.69 |
| Ce | 140 | 175 | 1 | NO GAS | 0.756 | ug/l | 68842.20 |
| Ce | 140 | 175 | 3 | He | 0.782 | ug/l | 18205.76 |
| Hg | 201 | 175 | 1 | NO GAS | 0.112 | ug/l | 551.57 |
| Hg | 202 | 175 | 1 | NO GAS | 0.116 | ug/l | 1328.46 |
| Hg | 202 | 175 | 3 | He | 0.114 | ug/l | 823.19 |
| Tl | 203 | 175 | 3 | He | 0.157 | ug/l | 2338.40 |
| Tl | 205 | 175 | 1 | NO GAS | 0.107 | ug/l | 7953.30 |
| Tl | 205 | 175 | 3 | He | 0.163 | ug/l | 5751.30 |
| [Pb] | 206 | 175 | 1 | NO GAS | 15.738 | ug/l | 386892.78 |
| [Pb] | 207 | 175 | 1 | NO GAS | 15.335 | ug/l | 331625.62 |
| Pb | 208 | 175 | 1 | NO GAS | 15.490 | ug/l | 1523565.28 |
| Th | 232 | 175 | 3 | He | 0.249 | ug/l | 13695.61 |
| U | 238 | 175 | 1 | NO GAS | 0.097 | ug/l | 11282.04 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1768293.34 | 94.8 |
| Sc | 45 | 2 | H2 | 66195.89 | 80.1 |
| Sc | 45 | 3 | He | 43952.55 | 87.4 |
| Ge | 72 | 1 | NO GAS | 852800.96 | 100.8 |
| Ge | 72 | 2 | H2 | 103002.52 | 86.9 |
| Ge | 72 | 3 | He | 70880.19 | 93.9 |
| Tb | 159 | 1 | NO GAS | 20305800.50 | 111.2 |
| Tb | 159 | 3 | He | 7121425.08 | 100.9 |
| Ho | 165 | 1 | NO GAS | 19623649.83 | 115.7 |
| Ho | 165 | 3 | He | 6872131.84 | 103.1 |
| Lu | 175 | 1 | NO GAS | 21862752.82 | 115.3 |
| Lu | 175 | 3 | He | 4334988.64 | 104.2 |

ICPMS206-B Analytical Data

Sample Name B21121611-001H
File Name 059SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 00:35:03
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 1.248 | ug/l | 2985.00 |
| Be | 9 | 45 | 1 | NO GAS | 0.002 | ug/l | 6.00 |
| B | 11 | 45 | 1 | NO GAS | 173.331 | ug/l | 34474.01 |
| Na | 23 | 45 | 3 | He | 96160.600 | ug/l | 7324179.68 |
| Mg | 24 | 45 | 3 | He | 30473.120 | ug/l | 1188700.74 |
| Al | 27 | 45 | 1 | NO GAS | 652.845 | ug/l | 1838295.30 |
| Si | 28 | 45 | 2 | H2 | 36641.182 | ug/l | 548928.53 |
| K | 39 | 72 | 3 | He | 3132.995 | ug/l | 122528.36 |
| Ca | 40 | 72 | 2 | H2 | 20374.193 | ug/l | 3458476.46 |
| Ti | 47 | 72 | 1 | NO GAS | 65.487 | ug/l | 54766.46 |
| V | 51 | 72 | 1 | NO GAS | 16.978 | ug/l | 204147.46 |
| V | 51 | 72 | 3 | He | 17.816 | ug/l | 20610.44 |
| Cr | 52 | 72 | 1 | NO GAS | 2.509 | ug/l | 39164.56 |
| Cr | 52 | 72 | 3 | He | 2.259 | ug/l | 3792.93 |
| Cr | 53 | 72 | 1 | NO GAS | 57.939 | ug/l | 136306.25 |
| Mn | 55 | 72 | 1 | NO GAS | 167.716 | ug/l | 2953515.00 |
| Mn | 55 | 72 | 3 | He | 170.571 | ug/l | 130279.76 |
| Fe | 56 | 72 | 2 | H2 | 901.256 | ug/l | 845683.44 |
| Fe | 56 | 72 | 3 | He | 939.840 | ug/l | 1424919.05 |
| Co | 59 | 72 | 1 | NO GAS | 1.908 | ug/l | 29710.94 |
| Ni | 60 | 72 | 1 | NO GAS | 5.746 | ug/l | 19939.21 |
| Ni | 60 | 72 | 3 | He | 5.309 | ug/l | 5425.36 |
| Ni | 62 | 72 | 1 | NO GAS | 6.064 | ug/l | 3486.84 |
| Cu | 63 | 72 | 1 | NO GAS | 4.584 | ug/l | 40614.95 |
| Cu | 63 | 72 | 3 | He | 3.450 | ug/l | 10603.23 |
| Cu | 65 | 72 | 1 | NO GAS | 3.574 | ug/l | 15879.73 |
| Zn | 66 | 72 | 1 | NO GAS | 5.679 | ug/l | 16810.16 |
| Zn | 66 | 72 | 3 | He | 5.474 | ug/l | 2471.32 |
| As | 75 | 72 | 1 | NO GAS | 0.961 | ug/l | 6098.22 |
| As | 75 | 72 | 3 | He | 1.138 | ug/l | 321.27 |
| Se | 78 | 72 | 2 | H2 | 0.249 | ug/l | 24.33 |
| Br | 79 | 72 | 1 | NO GAS | 0.483 | ug/l | 66786.51 |
| Br | 79 | 72 | 2 | H2 | 1.497 | ug/l | 8834.98 |
| Se | 82 | 72 | 1 | NO GAS | 1.153 | ug/l | 472.42 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 42987.33 |
| Sr | 88 | 72 | 1 | NO GAS | 175.356 | ug/l | 6280916.35 |
| Sr | 88 | 72 | 3 | He | 170.325 | ug/l | 239267.78 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 3.137 | ug/l | 24747.73 |
| Mo | 95 | 72 | 3 | He | 3.165 | ug/l | 7635.17 |
| Mo | 98 | 72 | 1 | NO GAS | 3.091 | ug/l | 41743.18 |
| Ag | 107 | 72 | 1 | NO GAS | -0.002 | ug/l | 1681.09 |
| Ag | 109 | 72 | 1 | NO GAS | -0.003 | ug/l | 1628.43 |
| Cd | 111 | 159 | 1 | NO GAS | 0.032 | ug/l | 158.52 |
| Cd | 111 | 159 | 3 | He | 0.012 | ug/l | 17.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.022 | ug/l | 33.08 |
| Cd | 114 | 159 | 3 | He | 0.017 | ug/l | 26.80 |
| Sn | 118 | 159 | 1 | NO GAS | -2.139 | ug/l | 9876.90 |
| Sn | 118 | 159 | 3 | He | -1.930 | ug/l | 1426.75 |
| Sb | 121 | 159 | 1 | NO GAS | 0.956 | ug/l | 24473.13 |
| Sb | 121 | 159 | 3 | He | 0.940 | ug/l | 3154.78 |
| Sb | 123 | 159 | 1 | NO GAS | 0.969 | ug/l | 19323.92 |
| Sb | 123 | 159 | 3 | He | 1.001 | ug/l | 2774.71 |
| Ba | 135 | 159 | 1 | NO GAS | 15.432 | ug/l | 85024.68 |
| Ba | 137 | 159 | 1 | NO GAS | 14.922 | ug/l | 145087.88 |
| La | 139 | 175 | 1 | NO GAS | 0.183 | ug/l | 17146.81 |
| La | 139 | 175 | 3 | He | 0.206 | ug/l | 3740.96 |
| Ce | 140 | 175 | 1 | NO GAS | 0.518 | ug/l | 47398.71 |
| Ce | 140 | 175 | 3 | He | 0.536 | ug/l | 12390.88 |
| Hg | 201 | 175 | 1 | NO GAS | 0.056 | ug/l | 282.28 |
| Hg | 202 | 175 | 1 | NO GAS | 0.772 | ug/l | 8438.68 |
| Hg | 202 | 175 | 3 | He | 0.521 | ug/l | 3634.38 |
| Tl | 203 | 175 | 3 | He | 0.119 | ug/l | 1781.76 |
| Tl | 205 | 175 | 1 | NO GAS | 0.070 | ug/l | 5371.03 |
| Tl | 205 | 175 | 3 | He | 0.113 | ug/l | 4033.75 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.764 | ug/l | 18928.64 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.721 | ug/l | 15726.10 |
| Pb | 208 | 175 | 1 | NO GAS | 0.744 | ug/l | 73727.68 |
| Th | 232 | 175 | 3 | He | 0.130 | ug/l | 7583.80 |
| U | 238 | 175 | 1 | NO GAS | 0.139 | ug/l | 16103.85 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1778761.39 | 95.3 |
| Sc | 45 | 2 | H2 | 64681.23 | 78.3 |
| Sc | 45 | 3 | He | 43006.38 | 85.5 |
| Ge | 72 | 1 | NO GAS | 847658.07 | 100.2 |
| Ge | 72 | 2 | H2 | 101394.55 | 85.6 |
| Ge | 72 | 3 | He | 71032.74 | 94.1 |
| Tb | 159 | 1 | NO GAS | 20987639.61 | 114.9 |
| Tb | 159 | 3 | He | 7039414.11 | 99.7 |
| Ho | 165 | 1 | NO GAS | 19825116.29 | 116.8 |
| Ho | 165 | 3 | He | 6891159.14 | 103.4 |
| Lu | 175 | 1 | NO GAS | 21958406.38 | 115.8 |
| Lu | 175 | 3 | He | 4303930.55 | 103.4 |

ICPMS206-B Analytical Data

Sample Name B21121613-001A
File Name 060SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 00:40:47
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -0.598 | ug/l | 1696.42 |
| Be | 9 | 45 | 1 | NO GAS | 0.010 | ug/l | 7.67 |
| B | 11 | 45 | 1 | NO GAS | 183.299 | ug/l | 34842.56 |
| Na | 23 | 45 | 3 | He | 93046.811 | ug/l | 6927542.19 |
| Mg | 24 | 45 | 3 | He | 8140.644 | ug/l | 310425.96 |
| Al | 27 | 45 | 1 | NO GAS | 725.595 | ug/l | 1954230.77 |
| Si | 28 | 45 | 2 | H2 | 32284.879 | ug/l | 457154.76 |
| K | 39 | 72 | 3 | He | 2872.441 | ug/l | 108493.51 |
| Ca | 40 | 72 | 2 | H2 | 4679.865 | ug/l | 768926.63 |
| Ti | 47 | 72 | 1 | NO GAS | 40.943 | ug/l | 33573.45 |
| V | 51 | 72 | 1 | NO GAS | 43.106 | ug/l | 518835.14 |
| V | 51 | 72 | 3 | He | 46.357 | ug/l | 51580.67 |
| Cr | 52 | 72 | 1 | NO GAS | 6.564 | ug/l | 85170.14 |
| Cr | 52 | 72 | 3 | He | 6.728 | ug/l | 10652.35 |
| Cr | 53 | 72 | 1 | NO GAS | 72.067 | ug/l | 155337.97 |
| Mn | 55 | 72 | 1 | NO GAS | 15.533 | ug/l | 269027.15 |
| Mn | 55 | 72 | 3 | He | 16.337 | ug/l | 12033.81 |
| Fe | 56 | 72 | 2 | H2 | 675.016 | ug/l | 613040.23 |
| Fe | 56 | 72 | 3 | He | 708.779 | ug/l | 1036516.74 |
| Co | 59 | 72 | 1 | NO GAS | 0.525 | ug/l | 8072.71 |
| Ni | 60 | 72 | 1 | NO GAS | 1.450 | ug/l | 4967.60 |
| Ni | 60 | 72 | 3 | He | 1.439 | ug/l | 1435.63 |
| Ni | 62 | 72 | 1 | NO GAS | 1.397 | ug/l | 998.06 |
| Cu | 63 | 72 | 1 | NO GAS | 3.028 | ug/l | 26465.69 |
| Cu | 63 | 72 | 3 | He | 1.968 | ug/l | 5908.86 |
| Cu | 65 | 72 | 1 | NO GAS | 1.970 | ug/l | 8683.89 |
| Zn | 66 | 72 | 1 | NO GAS | 4.178 | ug/l | 12251.87 |
| Zn | 66 | 72 | 3 | He | 4.279 | ug/l | 1881.24 |
| As | 75 | 72 | 1 | NO GAS | 0.242 | ug/l | 3819.30 |
| As | 75 | 72 | 3 | He | 0.273 | ug/l | 77.65 |
| Se | 78 | 72 | 2 | H2 | 0.338 | ug/l | 31.32 |
| Br | 79 | 72 | 1 | NO GAS | -0.095 | ug/l | 61885.55 |
| Br | 79 | 72 | 2 | H2 | 0.708 | ug/l | 7949.53 |
| Se | 82 | 72 | 1 | NO GAS | 1.105 | ug/l | 451.80 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 18473.79 |
| Sr | 88 | 72 | 1 | NO GAS | 58.781 | ug/l | 2063165.60 |
| Sr | 88 | 72 | 3 | He | 56.017 | ug/l | 76022.27 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.712 | ug/l | 5563.23 |
| Mo | 95 | 72 | 3 | He | 0.736 | ug/l | 1735.67 |
| Mo | 98 | 72 | 1 | NO GAS | 0.706 | ug/l | 9464.09 |
| Ag | 107 | 72 | 1 | NO GAS | -0.058 | ug/l | 439.25 |
| Ag | 109 | 72 | 1 | NO GAS | -0.058 | ug/l | 418.59 |
| Cd | 111 | 159 | 1 | NO GAS | 0.021 | ug/l | 83.13 |
| Cd | 111 | 159 | 3 | He | 0.017 | ug/l | 24.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.024 | ug/l | 58.16 |
| Cd | 114 | 159 | 3 | He | 0.032 | ug/l | 80.65 |
| Sn | 118 | 159 | 1 | NO GAS | -2.194 | ug/l | 8841.65 |
| Sn | 118 | 159 | 3 | He | -1.999 | ug/l | 1234.51 |
| Sb | 121 | 159 | 1 | NO GAS | 0.142 | ug/l | 3779.36 |
| Sb | 121 | 159 | 3 | He | 0.146 | ug/l | 510.01 |
| Sb | 123 | 159 | 1 | NO GAS | 0.147 | ug/l | 3055.87 |
| Sb | 123 | 159 | 3 | He | 0.159 | ug/l | 452.23 |
| Ba | 135 | 159 | 1 | NO GAS | 6.217 | ug/l | 34059.03 |
| Ba | 137 | 159 | 1 | NO GAS | 6.222 | ug/l | 60151.45 |
| La | 139 | 175 | 1 | NO GAS | 0.202 | ug/l | 19064.34 |
| La | 139 | 175 | 3 | He | 0.220 | ug/l | 3851.10 |
| Ce | 140 | 175 | 1 | NO GAS | 0.732 | ug/l | 67468.33 |
| Ce | 140 | 175 | 3 | He | 0.769 | ug/l | 17113.40 |
| Hg | 201 | 175 | 1 | NO GAS | 0.017 | ug/l | 97.31 |
| Hg | 202 | 175 | 1 | NO GAS | 0.021 | ug/l | 307.94 |
| Hg | 202 | 175 | 3 | He | 0.023 | ug/l | 175.63 |
| Tl | 203 | 175 | 3 | He | 0.069 | ug/l | 1029.84 |
| Tl | 205 | 175 | 1 | NO GAS | 0.042 | ug/l | 3350.41 |
| Tl | 205 | 175 | 3 | He | 0.072 | ug/l | 2538.39 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.292 | ug/l | 7332.97 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.273 | ug/l | 6033.49 |
| Pb | 208 | 175 | 1 | NO GAS | 0.282 | ug/l | 28386.27 |
| Th | 232 | 175 | 3 | He | 0.152 | ug/l | 8378.05 |
| U | 238 | 175 | 1 | NO GAS | 0.030 | ug/l | 3618.06 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1698520.20 | 91.0 |
| Sc | 45 | 2 | H2 | 61145.33 | 74.0 |
| Sc | 45 | 3 | He | 42012.75 | 83.5 |
| Ge | 72 | 1 | NO GAS | 831907.53 | 98.3 |
| Ge | 72 | 2 | H2 | 98123.42 | 82.8 |
| Ge | 72 | 3 | He | 68488.90 | 90.7 |
| Tb | 159 | 1 | NO GAS | 20872730.33 | 114.3 |
| Tb | 159 | 3 | He | 6911175.67 | 97.9 |
| Ho | 165 | 1 | NO GAS | 19573250.89 | 115.4 |
| Ho | 165 | 3 | He | 6764724.48 | 101.5 |
| Lu | 175 | 1 | NO GAS | 22147368.88 | 116.8 |
| Lu | 175 | 3 | He | 4144194.15 | 99.6 |

ICPMS206-B Analytical Data

Sample Name B21121613-001ADIL
File Name 061SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 00:46:30
Sample Type Sample
Total Dilution 5.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -5.960 | ug/l | 1273.13 |
| Be | 9 | 45 | 1 | NO GAS | -0.011 | ug/l | 4.67 |
| B | 11 | 45 | 1 | NO GAS | 179.163 | ug/l | 6730.64 |
| Na | 23 | 45 | 3 | He | 93291.094 | ug/l | 1309218.01 |
| Mg | 24 | 45 | 3 | He | 8251.223 | ug/l | 59125.37 |
| Al | 27 | 45 | 1 | NO GAS | 765.602 | ug/l | 400211.43 |
| Si | 28 | 45 | 2 | H2 | 33779.801 | ug/l | 92008.41 |
| K | 39 | 72 | 3 | He | 2807.376 | ug/l | 22629.51 |
| Ca | 40 | 72 | 2 | H2 | 4714.362 | ug/l | 151559.60 |
| Ti | 47 | 72 | 1 | NO GAS | 41.064 | ug/l | 6643.04 |
| V | 51 | 72 | 1 | NO GAS | 39.368 | ug/l | 87427.56 |
| V | 51 | 72 | 3 | He | 46.533 | ug/l | 10175.34 |
| Cr | 52 | 72 | 1 | NO GAS | 6.735 | ug/l | 24562.66 |
| Cr | 52 | 72 | 3 | He | 6.681 | ug/l | 2162.53 |
| Cr | 53 | 72 | 1 | NO GAS | 167.312 | ug/l | 94377.13 |
| Mn | 55 | 72 | 1 | NO GAS | 16.354 | ug/l | 56228.76 |
| Mn | 55 | 72 | 3 | He | 16.464 | ug/l | 2374.08 |
| Fe | 56 | 72 | 2 | H2 | 685.054 | ug/l | 121716.60 |
| Fe | 56 | 72 | 3 | He | 714.548 | ug/l | 204581.74 |
| Co | 59 | 72 | 1 | NO GAS | 0.587 | ug/l | 1826.49 |
| Ni | 60 | 72 | 1 | NO GAS | 1.574 | ug/l | 1107.85 |
| Ni | 60 | 72 | 3 | He | 1.664 | ug/l | 343.34 |
| Ni | 62 | 72 | 1 | NO GAS | 3.196 | ug/l | 595.50 |
| Cu | 63 | 72 | 1 | NO GAS | 3.642 | ug/l | 6615.33 |
| Cu | 63 | 72 | 3 | He | 2.645 | ug/l | 1680.08 |
| Cu | 65 | 72 | 1 | NO GAS | 2.655 | ug/l | 2470.37 |
| Zn | 66 | 72 | 1 | NO GAS | 22.946 | ug/l | 13197.21 |
| Zn | 66 | 72 | 3 | He | 23.325 | ug/l | 1996.80 |
| As | 75 | 72 | 1 | NO GAS | -1.097 | ug/l | 2398.52 |
| As | 75 | 72 | 3 | He | 0.227 | ug/l | 16.33 |
| Se | 78 | 72 | 2 | H2 | 0.705 | ug/l | 13.67 |
| Br | 79 | 72 | 1 | NO GAS | 5.275 | ug/l | 67994.06 |
| Br | 79 | 72 | 2 | H2 | 9.691 | ug/l | 8685.17 |
| Se | 82 | 72 | 1 | NO GAS | 3.386 | ug/l | 332.69 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 9490.65 |
| Sr | 88 | 72 | 1 | NO GAS | 56.835 | ug/l | 393006.86 |
| Sr | 88 | 72 | 3 | He | 57.680 | ug/l | 15466.22 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.729 | ug/l | 1186.72 |
| Mo | 95 | 72 | 3 | He | 0.745 | ug/l | 368.90 |
| Mo | 98 | 72 | 1 | NO GAS | 0.734 | ug/l | 2052.44 |
| Ag | 107 | 72 | 1 | NO GAS | -0.356 | ug/l | 143.31 |
| Ag | 109 | 72 | 1 | NO GAS | -0.347 | ug/l | 170.63 |
| Cd | 111 | 159 | 1 | NO GAS | 0.112 | ug/l | 94.13 |
| Cd | 111 | 159 | 3 | He | 0.060 | ug/l | 17.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.148 | ug/l | 136.48 |
| Cd | 114 | 159 | 3 | He | 0.111 | ug/l | 47.04 |
| Sn | 118 | 159 | 1 | NO GAS | -12.027 | ug/l | 5057.50 |
| Sn | 118 | 159 | 3 | He | -11.240 | ug/l | 627.79 |
| Sb | 121 | 159 | 1 | NO GAS | 0.233 | ug/l | 1353.40 |
| Sb | 121 | 159 | 3 | He | 0.197 | ug/l | 163.34 |
| Sb | 123 | 159 | 1 | NO GAS | 0.249 | ug/l | 1141.17 |
| Sb | 123 | 159 | 3 | He | 0.207 | ug/l | 135.56 |
| Ba | 135 | 159 | 1 | NO GAS | 7.136 | ug/l | 7749.93 |
| Ba | 137 | 159 | 1 | NO GAS | 7.083 | ug/l | 13608.88 |
| La | 139 | 175 | 1 | NO GAS | 0.247 | ug/l | 4485.22 |
| La | 139 | 175 | 3 | He | 0.224 | ug/l | 784.16 |
| Ce | 140 | 175 | 1 | NO GAS | 0.778 | ug/l | 13706.62 |
| Ce | 140 | 175 | 3 | He | 0.713 | ug/l | 3190.24 |
| Hg | 201 | 175 | 1 | NO GAS | 0.018 | ug/l | 30.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.026 | ug/l | 131.98 |
| Hg | 202 | 175 | 3 | He | 0.033 | ug/l | 69.32 |
| Tl | 203 | 175 | 3 | He | 0.233 | ug/l | 728.55 |
| Tl | 205 | 175 | 1 | NO GAS | 0.192 | ug/l | 3023.69 |
| Tl | 205 | 175 | 3 | He | 0.227 | ug/l | 1689.10 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.380 | ug/l | 1865.68 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.368 | ug/l | 1585.65 |
| Pb | 208 | 175 | 1 | NO GAS | 0.380 | ug/l | 7428.56 |
| Th | 232 | 175 | 3 | He | 0.121 | ug/l | 2137.73 |
| U | 238 | 175 | 1 | NO GAS | 0.031 | ug/l | 827.86 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1655802.64 | 88.7 |
| Sc | 45 | 2 | H2 | 58819.61 | 71.2 |
| Sc | 45 | 3 | He | 39475.73 | 78.5 |
| Ge | 72 | 1 | NO GAS | 819081.77 | 96.8 |
| Ge | 72 | 2 | H2 | 95960.24 | 81.0 |
| Ge | 72 | 3 | He | 66921.36 | 88.7 |
| Tb | 159 | 1 | NO GAS | 20668324.68 | 113.2 |
| Tb | 159 | 3 | He | 6961414.56 | 98.6 |
| Ho | 165 | 1 | NO GAS | 19250608.06 | 113.5 |
| Ho | 165 | 3 | He | 6763489.92 | 101.5 |
| Lu | 175 | 1 | NO GAS | 21128526.95 | 111.4 |
| Lu | 175 | 3 | He | 4143478.02 | 99.6 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 062_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 00:52:13
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 351.735 | ug/l | 230745.32 |
| Be | 9 | 45 | 1 | NO GAS | 42.574 | ug/l | 10880.53 |
| B | 11 | 45 | 1 | NO GAS | 41.563 | ug/l | 8008.26 |
| Na | 23 | 45 | 3 | He | 10665.038 | ug/l | 870700.05 |
| Mg | 24 | 45 | 3 | He | 10532.663 | ug/l | 437517.67 |
| Al | 27 | 45 | 1 | NO GAS | 42.297 | ug/l | 114264.89 |
| Si | 28 | 45 | 2 | H2 | 192.334 | ug/l | 2978.34 |
| K | 39 | 72 | 3 | He | 9873.817 | ug/l | 399182.05 |
| Ca | 40 | 72 | 2 | H2 | 10447.965 | ug/l | 1793620.94 |
| Ti | 47 | 72 | 1 | NO GAS | 44.374 | ug/l | 36344.32 |
| V | 51 | 72 | 1 | NO GAS | 43.840 | ug/l | 527661.91 |
| V | 51 | 72 | 3 | He | 46.543 | ug/l | 56293.24 |
| Cr | 52 | 72 | 1 | NO GAS | 45.203 | ug/l | 529609.70 |
| Cr | 52 | 72 | 3 | He | 46.613 | ug/l | 79387.50 |
| Cr | 53 | 72 | 1 | NO GAS | 68.843 | ug/l | 150017.38 |
| Mn | 55 | 72 | 1 | NO GAS | 46.801 | ug/l | 807484.24 |
| Mn | 55 | 72 | 3 | He | 45.626 | ug/l | 36546.54 |
| Fe | 56 | 72 | 2 | H2 | 1123.517 | ug/l | 1066384.88 |
| Fe | 56 | 72 | 3 | He | 1123.470 | ug/l | 1785912.71 |
| Co | 59 | 72 | 1 | NO GAS | 49.031 | ug/l | 745321.71 |
| Ni | 60 | 72 | 1 | NO GAS | 48.676 | ug/l | 164848.44 |
| Ni | 60 | 72 | 3 | He | 47.192 | ug/l | 50352.12 |
| Ni | 62 | 72 | 1 | NO GAS | 49.825 | ug/l | 26091.99 |
| Cu | 63 | 72 | 1 | NO GAS | 48.906 | ug/l | 419794.38 |
| Cu | 63 | 72 | 3 | He | 48.685 | ug/l | 154265.73 |
| Cu | 65 | 72 | 1 | NO GAS | 48.092 | ug/l | 206288.09 |
| Zn | 66 | 72 | 1 | NO GAS | 48.437 | ug/l | 136862.51 |
| Zn | 66 | 72 | 3 | He | 48.611 | ug/l | 22313.84 |
| As | 75 | 72 | 1 | NO GAS | 51.030 | ug/l | 157276.90 |
| As | 75 | 72 | 3 | He | 49.267 | ug/l | 14383.63 |
| Se | 78 | 72 | 2 | H2 | 52.330 | ug/l | 4751.07 |
| Br | 79 | 72 | 1 | NO GAS | 0.932 | ug/l | 68248.38 |
| Br | 79 | 72 | 2 | H2 | 1.881 | ug/l | 9250.98 |
| Se | 82 | 72 | 1 | NO GAS | 52.962 | ug/l | 13754.31 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 17904.29 |
| Sr | 88 | 72 | 1 | NO GAS | 51.829 | ug/l | 1818115.75 |
| Sr | 88 | 72 | 3 | He | 48.802 | ug/l | 72050.31 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 52.614 | ug/l | 405145.18 |
| Mo | 95 | 72 | 3 | He | 50.106 | ug/l | 126238.60 |
| Mo | 98 | 72 | 1 | NO GAS | 52.006 | ug/l | 684989.52 |
| Ag | 107 | 72 | 1 | NO GAS | 21.691 | ug/l | 471993.08 |
| Ag | 109 | 72 | 1 | NO GAS | 21.560 | ug/l | 461758.01 |
| Cd | 111 | 159 | 1 | NO GAS | 47.551 | ug/l | 287361.25 |
| Cd | 111 | 159 | 3 | He | 46.876 | ug/l | 66493.04 |
| Cd | 114 | 159 | 1 | NO GAS | 47.941 | ug/l | 663378.45 |
| Cd | 114 | 159 | 3 | He | 46.577 | ug/l | 171411.92 |
| Sn | 118 | 159 | 1 | NO GAS | 46.052 | ug/l | 833947.35 |
| Sn | 118 | 159 | 3 | He | 45.062 | ug/l | 119803.32 |
| Sb | 121 | 159 | 1 | NO GAS | 47.095 | ug/l | 1151027.01 |
| Sb | 121 | 159 | 3 | He | 45.800 | ug/l | 153418.84 |
| Sb | 123 | 159 | 1 | NO GAS | 47.568 | ug/l | 904575.42 |
| Sb | 123 | 159 | 3 | He | 45.375 | ug/l | 125823.74 |
| Ba | 135 | 159 | 1 | NO GAS | 47.325 | ug/l | 250945.44 |
| Ba | 137 | 159 | 1 | NO GAS | 47.047 | ug/l | 440235.77 |
| La | 139 | 175 | 1 | NO GAS | 46.302 | ug/l | 4080250.81 |
| La | 139 | 175 | 3 | He | 47.179 | ug/l | 839496.03 |
| Ce | 140 | 175 | 1 | NO GAS | 47.339 | ug/l | 4088987.07 |
| Ce | 140 | 175 | 3 | He | 48.104 | ug/l | 1087995.17 |
| Hg | 201 | 175 | 1 | NO GAS | 0.952 | ug/l | 4327.09 |
| Hg | 202 | 175 | 1 | NO GAS | 0.965 | ug/l | 9964.95 |
| Hg | 202 | 175 | 3 | He | 1.005 | ug/l | 6845.51 |
| Tl | 203 | 175 | 3 | He | 49.811 | ug/l | 694020.32 |
| Tl | 205 | 175 | 1 | NO GAS | 50.442 | ug/l | 3409777.21 |
| Tl | 205 | 175 | 3 | He | 50.705 | ug/l | 1674793.78 |
| [Pb] | 206 | 175 | 1 | NO GAS | 48.018 | ug/l | 1121099.38 |
| [Pb] | 207 | 175 | 1 | NO GAS | 47.328 | ug/l | 972155.83 |
| Pb | 208 | 175 | 1 | NO GAS | 47.299 | ug/l | 4418486.06 |
| Th | 232 | 175 | 3 | He | 51.043 | ug/l | 2540033.45 |
| U | 238 | 175 | 1 | NO GAS | 46.672 | ug/l | 5067264.88 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1696644.66 | 90.9 |
| Sc | 45 | 2 | H2 | 66502.80 | 80.5 |
| Sc | 45 | 3 | He | 45784.87 | 91.0 |
| Ge | 72 | 1 | NO GAS | 830691.50 | 98.2 |
| Ge | 72 | 2 | H2 | 102547.47 | 86.5 |
| Ge | 72 | 3 | He | 74485.69 | 98.7 |
| Tb | 159 | 1 | NO GAS | 20203750.96 | 110.6 |
| Tb | 159 | 3 | He | 7105314.07 | 100.7 |
| Ho | 165 | 1 | NO GAS | 18811324.62 | 110.9 |
| Ho | 165 | 3 | He | 6798718.53 | 102.0 |
| Lu | 175 | 1 | NO GAS | 20769070.84 | 109.5 |
| Lu | 175 | 3 | He | 4217421.02 | 101.4 |

ICPMS206-B Analytical Data

Sample Name CCB
File Name 063_CCB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 00:57:53
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -0.439 | ug/l | 1755.75 |
| Be | 9 | 45 | 1 | NO GAS | -0.003 | ug/l | 4.33 |
| B | 11 | 45 | 1 | NO GAS | 0.582 | ug/l | 247.29 |
| Na | 23 | 45 | 3 | He | 29.553 | ug/l | 8006.35 |
| Mg | 24 | 45 | 3 | He | 0.317 | ug/l | 23.29 |
| Al | 27 | 45 | 1 | NO GAS | -0.026 | ug/l | 488.90 |
| Si | 28 | 45 | 2 | H2 | 0.465 | ug/l | 20.66 |
| K | 39 | 72 | 3 | He | -12.885 | ug/l | 1997.91 |
| Ca | 40 | 72 | 2 | H2 | -0.323 | ug/l | 423.13 |
| Ti | 47 | 72 | 1 | NO GAS | 0.007 | ug/l | 28.32 |
| V | 51 | 72 | 1 | NO GAS | -0.346 | ug/l | -11099.94 |
| V | 51 | 72 | 3 | He | 0.124 | ug/l | 218.89 |
| Cr | 52 | 72 | 1 | NO GAS | 0.199 | ug/l | 11484.57 |
| Cr | 52 | 72 | 3 | He | -0.011 | ug/l | 109.78 |
| Cr | 53 | 72 | 1 | NO GAS | 36.400 | ug/l | 98077.85 |
| Mn | 55 | 72 | 1 | NO GAS | 0.004 | ug/l | 758.52 |
| Mn | 55 | 72 | 3 | He | -0.003 | ug/l | 2.33 |
| Fe | 56 | 72 | 2 | H2 | -0.025 | ug/l | 269.87 |
| Fe | 56 | 72 | 3 | He | 0.030 | ug/l | 591.39 |
| Co | 59 | 72 | 1 | NO GAS | -0.002 | ug/l | 39.92 |
| Ni | 60 | 72 | 1 | NO GAS | -0.002 | ug/l | 53.23 |
| Ni | 60 | 72 | 3 | He | -0.010 | ug/l | 15.56 |
| Ni | 62 | 72 | 1 | NO GAS | 0.017 | ug/l | 276.12 |
| Cu | 63 | 72 | 1 | NO GAS | -0.008 | ug/l | 385.93 |
| Cu | 63 | 72 | 3 | He | -0.013 | ug/l | 145.30 |
| Cu | 65 | 72 | 1 | NO GAS | -0.012 | ug/l | 177.97 |
| Zn | 66 | 72 | 1 | NO GAS | -0.075 | ug/l | 265.81 |
| Zn | 66 | 72 | 3 | He | -0.129 | ug/l | 28.89 |
| As | 75 | 72 | 1 | NO GAS | -0.012 | ug/l | 2971.41 |
| As | 75 | 72 | 3 | He | 0.000 | ug/l | 4.67 |
| Se | 78 | 72 | 2 | H2 | 0.015 | ug/l | 3.33 |
| Br | 79 | 72 | 1 | NO GAS | 0.085 | ug/l | 61471.34 |
| Br | 79 | 72 | 2 | H2 | 0.396 | ug/l | 7866.38 |
| Se | 82 | 72 | 1 | NO GAS | 0.745 | ug/l | 350.66 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6814.66 |
| Sr | 88 | 72 | 1 | NO GAS | -0.001 | ug/l | 296.09 |
| Sr | 88 | 72 | 3 | He | -0.009 | ug/l | 211.11 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.008 | ug/l | 130.00 |
| Mo | 95 | 72 | 3 | He | 0.002 | ug/l | 38.89 |
| Mo | 98 | 72 | 1 | NO GAS | 0.005 | ug/l | 216.68 |
| Ag | 107 | 72 | 1 | NO GAS | 0.007 | ug/l | 1803.08 |
| Ag | 109 | 72 | 1 | NO GAS | 0.012 | ug/l | 1870.41 |
| Cd | 111 | 159 | 1 | NO GAS | 0.009 | ug/l | 9.64 |
| Cd | 111 | 159 | 3 | He | 0.002 | ug/l | 3.33 |
| Cd | 114 | 159 | 1 | NO GAS | -0.002 | ug/l | -299.79 |
| Cd | 114 | 159 | 3 | He | -0.002 | ug/l | -42.66 |
| Sn | 118 | 159 | 1 | NO GAS | -0.183 | ug/l | 43462.88 |
| Sn | 118 | 159 | 3 | He | -0.050 | ug/l | 6245.71 |
| Sb | 121 | 159 | 1 | NO GAS | 0.057 | ug/l | 1593.43 |
| Sb | 121 | 159 | 3 | He | 0.037 | ug/l | 160.00 |
| Sb | 123 | 159 | 1 | NO GAS | 0.056 | ug/l | 1246.72 |
| Sb | 123 | 159 | 3 | He | 0.044 | ug/l | 146.67 |
| Ba | 135 | 159 | 1 | NO GAS | 0.004 | ug/l | 33.27 |
| Ba | 137 | 159 | 1 | NO GAS | 0.002 | ug/l | 73.19 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 40.04 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 16.68 |
| Ce | 140 | 175 | 1 | NO GAS | 0.000 | ug/l | 70.07 |
| Ce | 140 | 175 | 3 | He | -0.001 | ug/l | 0.00 |
| Hg | 201 | 175 | 1 | NO GAS | 0.008 | ug/l | 51.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.007 | ug/l | 151.64 |
| Hg | 202 | 175 | 3 | He | 0.010 | ug/l | 91.98 |
| Tl | 203 | 175 | 3 | He | 0.036 | ug/l | 592.56 |
| Tl | 205 | 175 | 1 | NO GAS | 0.025 | ug/l | 2020.16 |
| Tl | 205 | 175 | 3 | He | 0.036 | ug/l | 1401.79 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.000 | ug/l | 75.56 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.001 | ug/l | 64.44 |
| Pb | 208 | 175 | 1 | NO GAS | 0.001 | ug/l | 330.00 |
| Th | 232 | 175 | 3 | He | 0.046 | ug/l | 3231.72 |
| U | 238 | 175 | 1 | NO GAS | 0.002 | ug/l | 353.93 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1622785.97 | 87.0 |
| Sc | 45 | 2 | H2 | 62342.29 | 75.5 |
| Sc | 45 | 3 | He | 42350.72 | 84.2 |
| Ge | 72 | 1 | NO GAS | 810834.00 | 95.9 |
| Ge | 72 | 2 | H2 | 100153.88 | 84.5 |
| Ge | 72 | 3 | He | 70243.86 | 93.1 |
| Tb | 159 | 1 | NO GAS | 20446313.93 | 111.9 |
| Tb | 159 | 3 | He | 7189632.45 | 101.9 |
| Ho | 165 | 1 | NO GAS | 19031921.46 | 112.2 |
| Ho | 165 | 3 | He | 6795656.72 | 101.9 |
| Lu | 175 | 1 | NO GAS | 20703236.46 | 109.2 |
| Lu | 175 | 3 | He | 4192894.05 | 100.8 |

ICPMS206-B Analytical Data

Sample Name B21121613-001APDS1
File Name 064_ARF.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 01:03:40
Sample Type AllRef
Total Dilution 1.0300
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 1231.797 | ug/l | 759430.95 |
| Be | 9 | 45 | 1 | NO GAS | 37.853 | ug/l | 8755.44 |
| B | 11 | 45 | 1 | NO GAS | 218.533 | ug/l | 37522.43 |
| Na | 23 | 45 | 3 | He | 137130.019 | ug/l | 9499202.98 |
| Mg | 24 | 45 | 3 | He | 54993.063 | ug/l | 1952486.61 |
| Al | 27 | 45 | 1 | NO GAS | 764.753 | ug/l | 1860882.99 |
| Si | 28 | 45 | 2 | H2 | 32390.412 | ug/l | 407734.86 |
| K | 39 | 72 | 3 | He | 44700.968 | ug/l | 1601397.70 |
| Ca | 40 | 72 | 2 | H2 | 42799.268 | ug/l | 6478216.74 |
| Ti | 47 | 72 | 1 | NO GAS | 85.342 | ug/l | 65626.06 |
| V | 51 | 72 | 1 | NO GAS | 83.984 | ug/l | 955197.54 |
| V | 51 | 72 | 3 | He | 89.966 | ug/l | 96851.07 |
| Cr | 52 | 72 | 1 | NO GAS | 49.686 | ug/l | 546346.25 |
| Cr | 52 | 72 | 3 | He | 49.735 | ug/l | 75428.50 |
| Cr | 53 | 72 | 1 | NO GAS | 132.497 | ug/l | 233990.03 |
| Mn | 55 | 72 | 1 | NO GAS | 60.107 | ug/l | 974047.62 |
| Mn | 55 | 72 | 3 | He | 61.190 | ug/l | 43628.80 |
| Fe | 56 | 72 | 2 | H2 | 4837.604 | ug/l | 4048048.21 |
| Fe | 56 | 72 | 3 | He | 4959.017 | ug/l | 7018325.94 |
| Co | 59 | 72 | 1 | NO GAS | 45.486 | ug/l | 649846.86 |
| Ni | 60 | 72 | 1 | NO GAS | 46.366 | ug/l | 147546.40 |
| Ni | 60 | 72 | 3 | He | 46.610 | ug/l | 44264.88 |
| Ni | 62 | 72 | 1 | NO GAS | 46.167 | ug/l | 22727.28 |
| Cu | 63 | 72 | 1 | NO GAS | 47.637 | ug/l | 384074.26 |
| Cu | 63 | 72 | 3 | He | 47.537 | ug/l | 134142.46 |
| Cu | 65 | 72 | 1 | NO GAS | 46.448 | ug/l | 187085.04 |
| Zn | 66 | 72 | 1 | NO GAS | 44.703 | ug/l | 118573.60 |
| Zn | 66 | 72 | 3 | He | 44.418 | ug/l | 18165.45 |
| As | 75 | 72 | 1 | NO GAS | 46.809 | ug/l | 135718.76 |
| As | 75 | 72 | 3 | He | 46.056 | ug/l | 11972.23 |
| Se | 78 | 72 | 2 | H2 | 47.067 | ug/l | 3769.35 |
| Br | 79 | 72 | 1 | NO GAS | 0.488 | ug/l | 63248.40 |
| Br | 79 | 72 | 2 | H2 | 1.989 | ug/l | 8438.84 |
| Se | 82 | 72 | 1 | NO GAS | 46.861 | ug/l | 11450.20 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 28718.07 |
| Sr | 88 | 72 | 1 | NO GAS | 109.556 | ug/l | 3606550.01 |
| Sr | 88 | 72 | 3 | He | 105.360 | ug/l | 138302.64 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 53.208 | ug/l | 384720.19 |
| Mo | 95 | 72 | 3 | He | 52.848 | ug/l | 118507.90 |
| Mo | 98 | 72 | 1 | NO GAS | 53.362 | ug/l | 660298.75 |
| Ag | 107 | 72 | 1 | NO GAS | 21.715 | ug/l | 443661.35 |
| Ag | 109 | 72 | 1 | NO GAS | 21.556 | ug/l | 433521.17 |
| Cd | 111 | 159 | 1 | NO GAS | 44.294 | ug/l | 251253.20 |
| Cd | 111 | 159 | 3 | He | 44.675 | ug/l | 57285.86 |
| Cd | 114 | 159 | 1 | NO GAS | 44.716 | ug/l | 580910.00 |
| Cd | 114 | 159 | 3 | He | 45.207 | ug/l | 150301.26 |
| Sn | 118 | 159 | 1 | NO GAS | 46.541 | ug/l | 792054.60 |
| Sn | 118 | 159 | 3 | He | 46.058 | ug/l | 110673.80 |
| Sb | 121 | 159 | 1 | NO GAS | 46.434 | ug/l | 1065579.56 |
| Sb | 121 | 159 | 3 | He | 45.717 | ug/l | 138391.05 |
| Sb | 123 | 159 | 1 | NO GAS | 46.168 | ug/l | 824305.34 |
| Sb | 123 | 159 | 3 | He | 45.124 | ug/l | 113087.21 |
| Ba | 135 | 159 | 1 | NO GAS | 53.951 | ug/l | 268525.95 |
| Ba | 137 | 159 | 1 | NO GAS | 52.391 | ug/l | 460233.06 |
| La | 139 | 175 | 1 | NO GAS | 0.216 | ug/l | 18900.65 |
| La | 139 | 175 | 3 | He | 0.221 | ug/l | 3650.82 |
| Ce | 140 | 175 | 1 | NO GAS | 44.150 | ug/l | 3768269.99 |
| Ce | 140 | 175 | 3 | He | 48.658 | ug/l | 1019879.36 |
| Hg | 201 | 175 | 1 | NO GAS | 0.885 | ug/l | 3975.07 |
| Hg | 202 | 175 | 1 | NO GAS | 0.907 | ug/l | 9259.65 |
| Hg | 202 | 175 | 3 | He | 0.973 | ug/l | 6143.68 |
| Tl | 203 | 175 | 3 | He | 48.206 | ug/l | 622462.82 |
| Tl | 205 | 175 | 1 | NO GAS | 45.839 | ug/l | 3058381.27 |
| Tl | 205 | 175 | 3 | He | 49.642 | ug/l | 1519394.10 |
| [Pb] | 206 | 175 | 1 | NO GAS | 45.515 | ug/l | 1049938.64 |
| [Pb] | 207 | 175 | 1 | NO GAS | 44.905 | ug/l | 911597.92 |
| Pb | 208 | 175 | 1 | NO GAS | 45.547 | ug/l | 4204631.68 |
| Th | 232 | 175 | 3 | He | 52.339 | ug/l | 2413948.73 |
| U | 238 | 175 | 1 | NO GAS | 45.511 | ug/l | 4882753.95 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1580987.21 | 84.7 |
| Sc | 45 | 2 | H2 | 55985.45 | 67.8 |
| Sc | 45 | 3 | He | 40342.37 | 80.2 |
| Ge | 72 | 1 | NO GAS | 802957.67 | 94.9 |
| Ge | 72 | 2 | H2 | 93151.29 | 78.6 |
| Ge | 72 | 3 | He | 68325.97 | 90.5 |
| Tb | 159 | 1 | NO GAS | 19537637.99 | 107.0 |
| Tb | 159 | 3 | He | 6613665.25 | 93.7 |
| Ho | 165 | 1 | NO GAS | 18322718.53 | 108.0 |
| Ho | 165 | 3 | He | 6439619.34 | 96.6 |
| Lu | 175 | 1 | NO GAS | 21153090.26 | 111.5 |
| Lu | 175 | 3 | He | 4027578.66 | 96.8 |

ICPMS206-B Analytical Data

Sample Name B21121613-001AMS4
File Name 065MS4.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 01:09:20
Sample Type MS4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 63.012 | ug/l | 40732.66 |
| Be | 9 | 45 | 1 | NO GAS | 40.081 | ug/l | 10697.57 |
| B | 11 | 45 | 1 | NO GAS | 278.476 | ug/l | 55224.44 |
| Na | 23 | 45 | 3 | He | 93727.390 | ug/l | 6879502.26 |
| Mg | 24 | 45 | 3 | He | 12686.221 | ug/l | 476825.72 |
| Al | 27 | 45 | 1 | NO GAS | 1530.065 | ug/l | 4273808.93 |
| Si | 28 | 45 | 2 | H2 | 30455.484 | ug/l | 444571.75 |
| K | 39 | 72 | 3 | He | 6961.603 | ug/l | 264153.79 |
| Ca | 40 | 72 | 2 | H2 | 8583.545 | ug/l | 1510084.84 |
| Ti | 47 | 72 | 1 | NO GAS | 130.702 | ug/l | 108660.15 |
| V | 51 | 72 | 1 | NO GAS | 140.720 | ug/l | 1729856.75 |
| V | 51 | 72 | 3 | He | 140.174 | ug/l | 158609.54 |
| Cr | 52 | 72 | 1 | NO GAS | 98.336 | ug/l | 1153015.60 |
| Cr | 52 | 72 | 3 | He | 100.149 | ug/l | 159613.00 |
| Cr | 53 | 72 | 1 | NO GAS | 159.619 | ug/l | 293512.69 |
| Mn | 55 | 72 | 1 | NO GAS | 477.213 | ug/l | 8369895.63 |
| Mn | 55 | 72 | 3 | He | 491.415 | ug/l | 368387.92 |
| Fe | 56 | 72 | 2 | H2 | 1123.540 | ug/l | 1091378.64 |
| Fe | 56 | 72 | 3 | He | 1192.650 | ug/l | 1774433.27 |
| Co | 59 | 72 | 1 | NO GAS | 94.145 | ug/l | 1459264.54 |
| Ni | 60 | 72 | 1 | NO GAS | 91.741 | ug/l | 316167.86 |
| Ni | 60 | 72 | 3 | He | 99.151 | ug/l | 98955.36 |
| Ni | 62 | 72 | 1 | NO GAS | 93.544 | ug/l | 49527.81 |
| Cu | 63 | 72 | 1 | NO GAS | 94.989 | ug/l | 826079.75 |
| Cu | 63 | 72 | 3 | He | 101.440 | ug/l | 300729.66 |
| Cu | 65 | 72 | 1 | NO GAS | 98.447 | ug/l | 427823.63 |
| Zn | 66 | 72 | 1 | NO GAS | 132.757 | ug/l | 371713.09 |
| Zn | 66 | 72 | 3 | He | 95.701 | ug/l | 41038.16 |
| As | 75 | 72 | 1 | NO GAS | 94.304 | ug/l | 291533.46 |
| As | 75 | 72 | 3 | He | 95.073 | ug/l | 25974.60 |
| Se | 78 | 72 | 2 | H2 | 92.912 | ug/l | 8631.19 |
| Br | 79 | 72 | 1 | NO GAS | -0.861 | ug/l | 57687.08 |
| Br | 79 | 72 | 2 | H2 | -1.122 | ug/l | 7010.96 |
| Se | 82 | 72 | 1 | NO GAS | 95.751 | ug/l | 25066.73 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 40814.20 |
| Sr | 88 | 72 | 1 | NO GAS | 158.141 | ug/l | 5641308.00 |
| Sr | 88 | 72 | 3 | He | 159.374 | ug/l | 219785.68 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 102.324 | ug/l | 798635.50 |
| Mo | 95 | 72 | 3 | He | 107.727 | ug/l | 254059.90 |
| Mo | 98 | 72 | 1 | NO GAS | 105.582 | ug/l | 1408740.50 |
| Ag | 107 | 72 | 1 | NO GAS | 9.846 | ug/l | 218033.66 |
| Ag | 109 | 72 | 1 | NO GAS | 9.911 | ug/l | 216056.19 |
| Cd | 111 | 159 | 1 | NO GAS | 45.286 | ug/l | 259267.69 |
| Cd | 111 | 159 | 3 | He | 46.853 | ug/l | 64609.87 |
| Cd | 114 | 159 | 1 | NO GAS | 46.228 | ug/l | 606579.01 |
| Cd | 114 | 159 | 3 | He | 46.163 | ug/l | 165109.81 |
| Sn | 118 | 159 | 1 | NO GAS | 97.585 | ug/l | 1626105.66 |
| Sn | 118 | 159 | 3 | He | 96.869 | ug/l | 243206.00 |
| Sb | 121 | 159 | 1 | NO GAS | 93.086 | ug/l | 2151297.01 |
| Sb | 121 | 159 | 3 | He | 91.588 | ug/l | 298254.82 |
| Sb | 123 | 159 | 1 | NO GAS | 97.341 | ug/l | 1747692.09 |
| Sb | 123 | 159 | 3 | He | 92.661 | ug/l | 249703.65 |
| Ba | 135 | 159 | 1 | NO GAS | 97.334 | ug/l | 486755.45 |
| Ba | 137 | 159 | 1 | NO GAS | 97.256 | ug/l | 861168.25 |
| La | 139 | 175 | 1 | NO GAS | 94.392 | ug/l | 8070737.64 |
| La | 139 | 175 | 3 | He | 102.500 | ug/l | 1772871.16 |
| Ce | 140 | 175 | 1 | NO GAS | 95.525 | ug/l | 8013182.53 |
| Ce | 140 | 175 | 3 | He | 103.013 | ug/l | 2264645.16 |
| Hg | 201 | 175 | 1 | NO GAS | 0.027 | ug/l | 132.31 |
| Hg | 202 | 175 | 1 | NO GAS | 0.030 | ug/l | 375.60 |
| Hg | 202 | 175 | 3 | He | 0.025 | ug/l | 192.63 |
| Tl | 203 | 175 | 3 | He | 99.265 | ug/l | 1344480.97 |
| Tl | 205 | 175 | 1 | NO GAS | 95.249 | ug/l | 6247062.33 |
| Tl | 205 | 175 | 3 | He | 103.298 | ug/l | 3316522.09 |
| [Pb] | 206 | 175 | 1 | NO GAS | 99.092 | ug/l | 2246194.29 |
| [Pb] | 207 | 175 | 1 | NO GAS | 95.320 | ug/l | 1900824.27 |
| Pb | 208 | 175 | 1 | NO GAS | 96.751 | ug/l | 8768626.34 |
| Th | 232 | 175 | 3 | He | 105.700 | ug/l | 5110958.81 |
| U | 238 | 175 | 1 | NO GAS | 98.797 | ug/l | 10403024.05 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1790879.26 | 96.0 |
| Sc | 45 | 2 | H2 | 63027.82 | 76.3 |
| Sc | 45 | 3 | He | 41395.36 | 82.3 |
| Ge | 72 | 1 | NO GAS | 844798.16 | 99.9 |
| Ge | 72 | 2 | H2 | 105026.66 | 88.6 |
| Ge | 72 | 3 | He | 69717.28 | 92.4 |
| Tb | 159 | 1 | NO GAS | 19207934.13 | 105.2 |
| Tb | 159 | 3 | He | 6904671.61 | 97.8 |
| Ho | 165 | 1 | NO GAS | 17989054.98 | 106.0 |
| Ho | 165 | 3 | He | 6699448.59 | 100.5 |
| Lu | 175 | 1 | NO GAS | 20240093.55 | 106.7 |
| Lu | 175 | 3 | He | 4099570.00 | 98.5 |

ICPMS206-B Analytical Data

Sample Name B21121613-001AMSD4
File Name 066MSD4.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 01:14:57
Sample Type MSD4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 55.017 | ug/l | 38952.75 |
| Be | 9 | 45 | 1 | NO GAS | 39.082 | ug/l | 10120.23 |
| B | 11 | 45 | 1 | NO GAS | 262.738 | ug/l | 50483.53 |
| Na | 23 | 45 | 3 | He | 94544.126 | ug/l | 7475099.54 |
| Mg | 24 | 45 | 3 | He | 12162.313 | ug/l | 492466.98 |
| Al | 27 | 45 | 1 | NO GAS | 1482.315 | ug/l | 4048886.54 |
| Si | 28 | 45 | 2 | H2 | 33209.399 | ug/l | 485176.45 |
| K | 39 | 72 | 3 | He | 7153.870 | ug/l | 280835.44 |
| Ca | 40 | 72 | 2 | H2 | 8944.952 | ug/l | 1531867.04 |
| Ti | 47 | 72 | 1 | NO GAS | 126.069 | ug/l | 108829.31 |
| V | 51 | 72 | 1 | NO GAS | 136.565 | ug/l | 1747018.55 |
| V | 51 | 72 | 3 | He | 143.274 | ug/l | 167755.59 |
| Cr | 52 | 72 | 1 | NO GAS | 93.097 | ug/l | 1139993.50 |
| Cr | 52 | 72 | 3 | He | 101.571 | ug/l | 167592.25 |
| Cr | 53 | 72 | 1 | NO GAS | 147.170 | ug/l | 284993.73 |
| Mn | 55 | 72 | 1 | NO GAS | 472.602 | ug/l | 8589929.11 |
| Mn | 55 | 72 | 3 | He | 489.919 | ug/l | 380203.70 |
| Fe | 56 | 72 | 2 | H2 | 1129.058 | ug/l | 1067815.94 |
| Fe | 56 | 72 | 3 | He | 1221.867 | ug/l | 1881415.08 |
| Co | 59 | 72 | 1 | NO GAS | 96.587 | ug/l | 1548319.72 |
| Ni | 60 | 72 | 1 | NO GAS | 94.443 | ug/l | 337242.95 |
| Ni | 60 | 72 | 3 | He | 97.877 | ug/l | 101157.21 |
| Ni | 62 | 72 | 1 | NO GAS | 93.561 | ug/l | 51390.07 |
| Cu | 63 | 72 | 1 | NO GAS | 95.349 | ug/l | 862381.57 |
| Cu | 63 | 72 | 3 | He | 101.722 | ug/l | 312137.38 |
| Cu | 65 | 72 | 1 | NO GAS | 96.048 | ug/l | 434114.68 |
| Zn | 66 | 72 | 1 | NO GAS | 90.784 | ug/l | 269769.58 |
| Zn | 66 | 72 | 3 | He | 94.893 | ug/l | 42113.83 |
| As | 75 | 72 | 1 | NO GAS | 92.117 | ug/l | 296607.14 |
| As | 75 | 72 | 3 | He | 94.786 | ug/l | 26803.05 |
| Se | 78 | 72 | 2 | H2 | 96.965 | ug/l | 8776.24 |
| Br | 79 | 72 | 1 | NO GAS | -0.356 | ug/l | 63401.87 |
| Br | 79 | 72 | 2 | H2 | 0.661 | ug/l | 8255.78 |
| Se | 82 | 72 | 1 | NO GAS | 89.028 | ug/l | 24248.57 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 42410.31 |
| Sr | 88 | 72 | 1 | NO GAS | 164.414 | ug/l | 6080657.39 |
| Sr | 88 | 72 | 3 | He | 162.147 | ug/l | 231413.76 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 105.252 | ug/l | 854115.15 |
| Mo | 95 | 72 | 3 | He | 107.765 | ug/l | 262991.01 |
| Mo | 98 | 72 | 1 | NO GAS | 103.164 | ug/l | 1432957.74 |
| Ag | 107 | 72 | 1 | NO GAS | 10.315 | ug/l | 237454.46 |
| Ag | 109 | 72 | 1 | NO GAS | 10.197 | ug/l | 231160.24 |
| Cd | 111 | 159 | 1 | NO GAS | 46.500 | ug/l | 291210.19 |
| Cd | 111 | 159 | 3 | He | 46.764 | ug/l | 66907.76 |
| Cd | 114 | 159 | 1 | NO GAS | 46.259 | ug/l | 663269.23 |
| Cd | 114 | 159 | 3 | He | 46.254 | ug/l | 171659.58 |
| Sn | 118 | 159 | 1 | NO GAS | 98.803 | ug/l | 1800278.50 |
| Sn | 118 | 159 | 3 | He | 97.358 | ug/l | 253564.24 |
| Sb | 121 | 159 | 1 | NO GAS | 96.315 | ug/l | 2439414.94 |
| Sb | 121 | 159 | 3 | He | 91.672 | ug/l | 309633.60 |
| Sb | 123 | 159 | 1 | NO GAS | 96.317 | ug/l | 1898221.60 |
| Sb | 123 | 159 | 3 | He | 92.161 | ug/l | 257711.84 |
| Ba | 135 | 159 | 1 | NO GAS | 99.167 | ug/l | 544942.47 |
| Ba | 137 | 159 | 1 | NO GAS | 97.019 | ug/l | 940801.36 |
| La | 139 | 175 | 1 | NO GAS | 97.514 | ug/l | 9032949.30 |
| La | 139 | 175 | 3 | He | 99.225 | ug/l | 1801391.34 |
| Ce | 140 | 175 | 1 | NO GAS | 96.295 | ug/l | 8746322.37 |
| Ce | 140 | 175 | 3 | He | 102.005 | ug/l | 2353873.17 |
| Hg | 201 | 175 | 1 | NO GAS | 0.017 | ug/l | 94.98 |
| Hg | 202 | 175 | 1 | NO GAS | 0.023 | ug/l | 326.27 |
| Hg | 202 | 175 | 3 | He | 0.023 | ug/l | 188.30 |
| Tl | 203 | 175 | 3 | He | 99.703 | ug/l | 1417110.17 |
| Tl | 205 | 175 | 1 | NO GAS | 95.016 | ug/l | 6749725.59 |
| Tl | 205 | 175 | 3 | He | 103.616 | ug/l | 3490442.75 |
| [Pb] | 206 | 175 | 1 | NO GAS | 97.173 | ug/l | 2383774.76 |
| [Pb] | 207 | 175 | 1 | NO GAS | 96.241 | ug/l | 2077696.44 |
| Pb | 208 | 175 | 1 | NO GAS | 96.886 | ug/l | 9512917.79 |
| Th | 232 | 175 | 3 | He | 104.684 | ug/l | 5312618.18 |
| U | 238 | 175 | 1 | NO GAS | 96.390 | ug/l | 11002276.51 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1723338.89 | 92.4 |
| Sc | 45 | 2 | H2 | 63095.30 | 76.4 |
| Sc | 45 | 3 | He | 44616.63 | 88.7 |
| Ge | 72 | 1 | NO GAS | 874973.32 | 103.4 |
| Ge | 72 | 2 | H2 | 102256.46 | 86.3 |
| Ge | 72 | 3 | He | 72165.32 | 95.6 |
| Tb | 159 | 1 | NO GAS | 20938922.14 | 114.6 |
| Tb | 159 | 3 | He | 7163656.79 | 101.5 |
| Ho | 165 | 1 | NO GAS | 19387913.07 | 114.3 |
| Ho | 165 | 3 | He | 6998290.44 | 105.0 |
| Lu | 175 | 1 | NO GAS | 21834361.72 | 115.1 |
| Lu | 175 | 3 | He | 4302734.67 | 103.4 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 067BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 01:20:32
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.003 | ug/l | 2055.05 |
| Be | 9 | 45 | 1 | NO GAS | -0.005 | ug/l | 4.00 |
| B | 11 | 45 | 1 | NO GAS | 1.184 | ug/l | 376.60 |
| Na | 23 | 45 | 3 | He | 128.978 | ug/l | 15443.62 |
| Mg | 24 | 45 | 3 | He | 0.834 | ug/l | 43.25 |
| Al | 27 | 45 | 1 | NO GAS | 0.109 | ug/l | 880.03 |
| Si | 28 | 45 | 2 | H2 | 3.185 | ug/l | 60.66 |
| K | 39 | 72 | 3 | He | -8.484 | ug/l | 2182.38 |
| Ca | 40 | 72 | 2 | H2 | 0.441 | ug/l | 564.73 |
| Ti | 47 | 72 | 1 | NO GAS | 0.019 | ug/l | 38.32 |
| V | 51 | 72 | 1 | NO GAS | -0.995 | ug/l | -19574.68 |
| V | 51 | 72 | 3 | He | 0.099 | ug/l | 192.22 |
| Cr | 52 | 72 | 1 | NO GAS | 0.121 | ug/l | 10985.25 |
| Cr | 52 | 72 | 3 | He | -0.007 | ug/l | 116.44 |
| Cr | 53 | 72 | 1 | NO GAS | 29.939 | ug/l | 91576.46 |
| Mn | 55 | 72 | 1 | NO GAS | 0.011 | ug/l | 898.25 |
| Mn | 55 | 72 | 3 | He | 0.007 | ug/l | 10.00 |
| Fe | 56 | 72 | 2 | H2 | 0.094 | ug/l | 389.82 |
| Fe | 56 | 72 | 3 | He | 0.148 | ug/l | 774.65 |
| Co | 59 | 72 | 1 | NO GAS | 0.004 | ug/l | 129.74 |
| Ni | 60 | 72 | 1 | NO GAS | 0.012 | ug/l | 103.13 |
| Ni | 60 | 72 | 3 | He | 0.008 | ug/l | 34.44 |
| Ni | 62 | 72 | 1 | NO GAS | 0.161 | ug/l | 362.62 |
| Cu | 63 | 72 | 1 | NO GAS | 0.001 | ug/l | 476.58 |
| Cu | 63 | 72 | 3 | He | -0.003 | ug/l | 177.97 |
| Cu | 65 | 72 | 1 | NO GAS | -0.003 | ug/l | 223.29 |
| Zn | 66 | 72 | 1 | NO GAS | 0.018 | ug/l | 542.09 |
| Zn | 66 | 72 | 3 | He | 0.021 | ug/l | 94.44 |
| As | 75 | 72 | 1 | NO GAS | -0.134 | ug/l | 2686.79 |
| As | 75 | 72 | 3 | He | 0.035 | ug/l | 14.33 |
| Se | 78 | 72 | 2 | H2 | 0.015 | ug/l | 3.33 |
| Br | 79 | 72 | 1 | NO GAS | -2.036 | ug/l | 50159.85 |
| Br | 79 | 72 | 2 | H2 | -1.785 | ug/l | 6315.44 |
| Se | 82 | 72 | 1 | NO GAS | 0.259 | ug/l | 234.21 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7164.09 |
| Sr | 88 | 72 | 1 | NO GAS | 0.008 | ug/l | 638.76 |
| Sr | 88 | 72 | 3 | He | 0.001 | ug/l | 226.67 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.007 | ug/l | 126.67 |
| Mo | 95 | 72 | 3 | He | 0.003 | ug/l | 40.00 |
| Mo | 98 | 72 | 1 | NO GAS | 0.007 | ug/l | 240.50 |
| Ag | 107 | 72 | 1 | NO GAS | 0.006 | ug/l | 1830.41 |
| Ag | 109 | 72 | 1 | NO GAS | 0.005 | ug/l | 1787.75 |
| Cd | 111 | 159 | 1 | NO GAS | 0.005 | ug/l | -12.69 |
| Cd | 111 | 159 | 3 | He | 0.006 | ug/l | 9.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.010 | ug/l | -134.83 |
| Cd | 114 | 159 | 3 | He | 0.014 | ug/l | 15.50 |
| Sn | 118 | 159 | 1 | NO GAS | -2.529 | ug/l | 2887.89 |
| Sn | 118 | 159 | 3 | He | -2.336 | ug/l | 413.35 |
| Sb | 121 | 159 | 1 | NO GAS | 0.022 | ug/l | 735.58 |
| Sb | 121 | 159 | 3 | He | 0.016 | ug/l | 87.78 |
| Sb | 123 | 159 | 1 | NO GAS | 0.024 | ug/l | 640.02 |
| Sb | 123 | 159 | 3 | He | 0.012 | ug/l | 56.67 |
| Ba | 135 | 159 | 1 | NO GAS | 0.021 | ug/l | 133.07 |
| Ba | 137 | 159 | 1 | NO GAS | 0.025 | ug/l | 289.43 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 150.16 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 30.03 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 163.50 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 40.04 |
| Hg | 201 | 175 | 1 | NO GAS | 0.001 | ug/l | 21.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 85.98 |
| Hg | 202 | 175 | 3 | He | 0.001 | ug/l | 31.66 |
| Tl | 203 | 175 | 3 | He | 0.446 | ug/l | 6326.74 |
| Tl | 205 | 175 | 1 | NO GAS | 0.362 | ug/l | 25679.33 |
| Tl | 205 | 175 | 3 | He | 0.481 | ug/l | 16172.08 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.005 | ug/l | 190.00 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.003 | ug/l | 116.67 |
| Pb | 208 | 175 | 1 | NO GAS | 0.004 | ug/l | 625.57 |
| Th | 232 | 175 | 3 | He | 0.073 | ug/l | 4637.16 |
| U | 238 | 175 | 1 | NO GAS | 0.006 | ug/l | 793.20 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1713626.22 | 91.8 |
| Sc | 45 | 2 | H2 | 62766.70 | 76.0 |
| Sc | 45 | 3 | He | 42287.19 | 84.1 |
| Ge | 72 | 1 | NO GAS | 841405.51 | 99.5 |
| Ge | 72 | 2 | H2 | 102523.49 | 86.5 |
| Ge | 72 | 3 | He | 70809.43 | 93.8 |
| Tb | 159 | 1 | NO GAS | 20682739.30 | 113.2 |
| Tb | 159 | 3 | He | 6981859.06 | 98.9 |
| Ho | 165 | 1 | NO GAS | 19185721.30 | 113.1 |
| Ho | 165 | 3 | He | 6857725.30 | 102.9 |
| Lu | 175 | 1 | NO GAS | 21674850.55 | 114.3 |
| Lu | 175 | 3 | He | 4235275.60 | 101.8 |

ICPMS206-B Analytical Data

Sample Name B21121616-001A
File Name 068SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 01:26:18
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 1.364 | ug/l | 2971.67 |
| Be | 9 | 45 | 1 | NO GAS | -0.005 | ug/l | 3.67 |
| B | 11 | 45 | 1 | NO GAS | 70.771 | ug/l | 12646.10 |
| Na | 23 | 45 | 3 | He | 46342.385 | ug/l | 3241765.93 |
| Mg | 24 | 45 | 3 | He | 20127.076 | ug/l | 720652.00 |
| Al | 27 | 45 | 1 | NO GAS | 31.826 | ug/l | 80597.04 |
| Si | 28 | 45 | 2 | H2 | 31312.783 | ug/l | 405906.34 |
| K | 39 | 72 | 3 | He | 1945.024 | ug/l | 73235.41 |
| Ca | 40 | 72 | 2 | H2 | 9869.271 | ug/l | 1473920.00 |
| Ti | 47 | 72 | 1 | NO GAS | 7.673 | ug/l | 5889.82 |
| V | 51 | 72 | 1 | NO GAS | -0.357 | ug/l | -11028.69 |
| V | 51 | 72 | 3 | He | 0.772 | ug/l | 920.03 |
| Cr | 52 | 72 | 1 | NO GAS | 1.061 | ug/l | 20238.84 |
| Cr | 52 | 72 | 3 | He | 0.485 | ug/l | 868.31 |
| Cr | 53 | 72 | 1 | NO GAS | 70.383 | ug/l | 142458.17 |
| Mn | 55 | 72 | 1 | NO GAS | 1471.292 | ug/l | 23675904.84 |
| Mn | 55 | 72 | 3 | He | 1414.236 | ug/l | 1026668.84 |
| Fe | 56 | 72 | 2 | H2 | 1500.149 | ug/l | 1238648.51 |
| Fe | 56 | 72 | 3 | He | 1520.434 | ug/l | 2191310.73 |
| Co | 59 | 72 | 1 | NO GAS | 0.736 | ug/l | 10509.17 |
| Ni | 60 | 72 | 1 | NO GAS | 1.142 | ug/l | 3663.16 |
| Ni | 60 | 72 | 3 | He | 0.862 | ug/l | 857.81 |
| Ni | 62 | 72 | 1 | NO GAS | 1.173 | ug/l | 821.73 |
| Cu | 63 | 72 | 1 | NO GAS | 2.302 | ug/l | 18872.17 |
| Cu | 63 | 72 | 3 | He | 1.623 | ug/l | 4833.74 |
| Cu | 65 | 72 | 1 | NO GAS | 1.723 | ug/l | 7112.10 |
| Zn | 66 | 72 | 1 | NO GAS | 4.961 | ug/l | 13504.67 |
| Zn | 66 | 72 | 3 | He | 4.965 | ug/l | 2139.05 |
| As | 75 | 72 | 1 | NO GAS | 0.147 | ug/l | 3333.16 |
| As | 75 | 72 | 3 | He | 0.142 | ug/l | 41.99 |
| Se | 78 | 72 | 2 | H2 | 0.066 | ug/l | 7.00 |
| Br | 79 | 72 | 1 | NO GAS | -2.409 | ug/l | 44031.01 |
| Br | 79 | 72 | 2 | H2 | -1.549 | ug/l | 5656.46 |
| Se | 82 | 72 | 1 | NO GAS | 1.435 | ug/l | 502.37 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 25592.57 |
| Sr | 88 | 72 | 1 | NO GAS | 101.937 | ug/l | 3339302.57 |
| Sr | 88 | 72 | 3 | He | 94.024 | ug/l | 125650.86 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.232 | ug/l | 1733.44 |
| Mo | 95 | 72 | 3 | He | 0.199 | ug/l | 486.68 |
| Mo | 98 | 72 | 1 | NO GAS | 0.220 | ug/l | 2841.52 |
| Ag | 107 | 72 | 1 | NO GAS | -0.050 | ug/l | 556.57 |
| Ag | 109 | 72 | 1 | NO GAS | -0.050 | ug/l | 552.57 |
| Cd | 111 | 159 | 1 | NO GAS | 0.018 | ug/l | 64.36 |
| Cd | 111 | 159 | 3 | He | 0.010 | ug/l | 14.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.025 | ug/l | 79.40 |
| Cd | 114 | 159 | 3 | He | 0.018 | ug/l | 33.03 |
| Sn | 118 | 159 | 1 | NO GAS | -2.328 | ug/l | 6295.48 |
| Sn | 118 | 159 | 3 | He | -2.177 | ug/l | 801.14 |
| Sb | 121 | 159 | 1 | NO GAS | 0.162 | ug/l | 4158.35 |
| Sb | 121 | 159 | 3 | He | 0.164 | ug/l | 572.24 |
| Sb | 123 | 159 | 1 | NO GAS | 0.165 | ug/l | 3327.04 |
| Sb | 123 | 159 | 3 | He | 0.156 | ug/l | 446.68 |
| Ba | 135 | 159 | 1 | NO GAS | 17.420 | ug/l | 92812.01 |
| Ba | 137 | 159 | 1 | NO GAS | 16.799 | ug/l | 158012.17 |
| La | 139 | 175 | 1 | NO GAS | 0.035 | ug/l | 3283.71 |
| La | 139 | 175 | 3 | He | 0.041 | ug/l | 720.75 |
| Ce | 140 | 175 | 1 | NO GAS | 0.135 | ug/l | 12240.57 |
| Ce | 140 | 175 | 3 | He | 0.152 | ug/l | 3413.88 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 50.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.046 | ug/l | 576.56 |
| Hg | 202 | 175 | 3 | He | 0.035 | ug/l | 257.62 |
| Tl | 203 | 175 | 3 | He | 0.169 | ug/l | 2416.39 |
| Tl | 205 | 175 | 1 | NO GAS | 0.106 | ug/l | 7862.20 |
| Tl | 205 | 175 | 3 | He | 0.169 | ug/l | 5729.97 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.153 | ug/l | 3797.17 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.146 | ug/l | 3170.36 |
| Pb | 208 | 175 | 1 | NO GAS | 0.150 | ug/l | 14852.99 |
| Th | 232 | 175 | 3 | He | 0.174 | ug/l | 9516.52 |
| U | 238 | 175 | 1 | NO GAS | 0.010 | ug/l | 1259.14 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1591444.39 | 85.3 |
| Sc | 45 | 2 | H2 | 55973.15 | 67.8 |
| Sc | 45 | 3 | He | 39451.72 | 78.4 |
| Ge | 72 | 1 | NO GAS | 776025.95 | 91.7 |
| Ge | 72 | 2 | H2 | 89225.05 | 75.3 |
| Ge | 72 | 3 | He | 67522.08 | 89.5 |
| Tb | 159 | 1 | NO GAS | 20318821.65 | 111.2 |
| Tb | 159 | 3 | He | 6952530.88 | 98.5 |
| Ho | 165 | 1 | NO GAS | 19242801.50 | 113.4 |
| Ho | 165 | 3 | He | 6622851.94 | 99.3 |
| Lu | 175 | 1 | NO GAS | 21710476.79 | 114.5 |
| Lu | 175 | 3 | He | 4164078.41 | 100.1 |

ICPMS206-B Analytical Data

Sample Name B21121622-001G
File Name 069SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 01:32:03
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 0.926 | ug/l | 2649.68 |
| Be | 9 | 45 | 1 | NO GAS | 0.008 | ug/l | 6.33 |
| B | 11 | 45 | 1 | NO GAS | 32.481 | ug/l | 5479.12 |
| Na | 23 | 45 | 3 | He | 43109.689 | ug/l | 2811342.47 |
| Mg | 24 | 45 | 3 | He | 8252.722 | ug/l | 275253.49 |
| Al | 27 | 45 | 1 | NO GAS | 728.276 | ug/l | 1706346.02 |
| Si | 28 | 45 | 2 | H2 | 19213.974 | ug/l | 221244.05 |
| K | 39 | 72 | 3 | He | 2505.939 | ug/l | 88652.23 |
| Ca | 40 | 72 | 2 | H2 | 11269.411 | ug/l | 1619260.17 |
| Ti | 47 | 72 | 1 | NO GAS | 53.774 | ug/l | 40635.13 |
| V | 51 | 72 | 1 | NO GAS | 8.042 | ug/l | 83885.36 |
| V | 51 | 72 | 3 | He | 10.667 | ug/l | 11129.27 |
| Cr | 52 | 72 | 1 | NO GAS | 4.648 | ug/l | 58084.68 |
| Cr | 52 | 72 | 3 | He | 4.341 | ug/l | 6455.16 |
| Cr | 53 | 72 | 1 | NO GAS | 73.248 | ug/l | 144784.85 |
| Mn | 55 | 72 | 1 | NO GAS | 39.762 | ug/l | 633219.14 |
| Mn | 55 | 72 | 3 | He | 40.786 | ug/l | 28041.25 |
| Fe | 56 | 72 | 2 | H2 | 587.676 | ug/l | 466956.94 |
| Fe | 56 | 72 | 3 | He | 626.450 | ug/l | 854987.52 |
| Co | 59 | 72 | 1 | NO GAS | 0.381 | ug/l | 5413.51 |
| Ni | 60 | 72 | 1 | NO GAS | 2.044 | ug/l | 6441.87 |
| Ni | 60 | 72 | 3 | He | 1.951 | ug/l | 1810.12 |
| Ni | 62 | 72 | 1 | NO GAS | 2.088 | ug/l | 1250.91 |
| Cu | 63 | 72 | 1 | NO GAS | 3.024 | ug/l | 24351.42 |
| Cu | 63 | 72 | 3 | He | 2.546 | ug/l | 7085.08 |
| Cu | 65 | 72 | 1 | NO GAS | 2.517 | ug/l | 10166.40 |
| Zn | 66 | 72 | 1 | NO GAS | 69.321 | ug/l | 180402.81 |
| Zn | 66 | 72 | 3 | He | 69.340 | ug/l | 27292.19 |
| As | 75 | 72 | 1 | NO GAS | 1.275 | ug/l | 6384.18 |
| As | 75 | 72 | 3 | He | 1.421 | ug/l | 360.26 |
| Se | 78 | 72 | 2 | H2 | 0.162 | ug/l | 14.00 |
| Br | 79 | 72 | 1 | NO GAS | -1.872 | ug/l | 46652.95 |
| Br | 79 | 72 | 2 | H2 | -1.187 | ug/l | 5686.45 |
| Se | 82 | 72 | 1 | NO GAS | -0.050 | ug/l | 142.37 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 34644.66 |
| Sr | 88 | 72 | 1 | NO GAS | 150.873 | ug/l | 4881899.87 |
| Sr | 88 | 72 | 3 | He | 142.497 | ug/l | 180235.09 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 8.260 | ug/l | 58734.52 |
| Mo | 95 | 72 | 3 | He | 8.423 | ug/l | 18243.63 |
| Mo | 98 | 72 | 1 | NO GAS | 8.308 | ug/l | 101118.29 |
| Ag | 107 | 72 | 1 | NO GAS | -0.038 | ug/l | 803.86 |
| Ag | 109 | 72 | 1 | NO GAS | -0.039 | ug/l | 759.21 |
| Cd | 111 | 159 | 1 | NO GAS | 0.017 | ug/l | 59.97 |
| Cd | 111 | 159 | 3 | He | 0.005 | ug/l | 7.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.016 | ug/l | -48.36 |
| Cd | 114 | 159 | 3 | He | 0.015 | ug/l | 19.07 |
| Sn | 118 | 159 | 1 | NO GAS | -1.977 | ug/l | 12044.09 |
| Sn | 118 | 159 | 3 | He | -1.811 | ug/l | 1638.98 |
| Sb | 121 | 159 | 1 | NO GAS | 0.787 | ug/l | 19040.20 |
| Sb | 121 | 159 | 3 | He | 0.762 | ug/l | 2435.76 |
| Sb | 123 | 159 | 1 | NO GAS | 0.812 | ug/l | 15311.83 |
| Sb | 123 | 159 | 3 | He | 0.762 | ug/l | 2011.25 |
| Ba | 135 | 159 | 1 | NO GAS | 27.300 | ug/l | 142041.10 |
| Ba | 137 | 159 | 1 | NO GAS | 27.027 | ug/l | 248169.95 |
| La | 139 | 175 | 1 | NO GAS | 0.455 | ug/l | 40603.13 |
| La | 139 | 175 | 3 | He | 0.492 | ug/l | 8247.23 |
| Ce | 140 | 175 | 1 | NO GAS | 1.004 | ug/l | 87696.36 |
| Ce | 140 | 175 | 3 | He | 1.069 | ug/l | 22832.93 |
| Hg | 201 | 175 | 1 | NO GAS | 0.033 | ug/l | 166.63 |
| Hg | 202 | 175 | 1 | NO GAS | 0.460 | ug/l | 4834.15 |
| Hg | 202 | 175 | 3 | He | 0.337 | ug/l | 2182.39 |
| Tl | 203 | 175 | 3 | He | 0.137 | ug/l | 1884.41 |
| Tl | 205 | 175 | 1 | NO GAS | 0.087 | ug/l | 6299.18 |
| Tl | 205 | 175 | 3 | He | 0.141 | ug/l | 4605.14 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.247 | ug/l | 5884.53 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.225 | ug/l | 4725.22 |
| Pb | 208 | 175 | 1 | NO GAS | 0.232 | ug/l | 22119.75 |
| Th | 232 | 175 | 3 | He | 0.324 | ug/l | 16110.87 |
| U | 238 | 175 | 1 | NO GAS | 0.444 | ug/l | 48785.05 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1478558.75 | 79.2 |
| Sc | 45 | 2 | H2 | 49716.52 | 60.2 |
| Sc | 45 | 3 | He | 36755.59 | 73.1 |
| Ge | 72 | 1 | NO GAS | 765753.14 | 90.5 |
| Ge | 72 | 2 | H2 | 85838.52 | 72.4 |
| Ge | 72 | 3 | He | 63944.23 | 84.7 |
| Tb | 159 | 1 | NO GAS | 19821775.66 | 108.5 |
| Tb | 159 | 3 | He | 6696858.03 | 94.9 |
| Ho | 165 | 1 | NO GAS | 19001158.41 | 112.0 |
| Ho | 165 | 3 | He | 6632889.17 | 99.5 |
| Lu | 175 | 1 | NO GAS | 20981700.76 | 110.6 |
| Lu | 175 | 3 | He | 3978312.24 | 95.6 |

ICPMS206-B Analytical Data

Sample Name B21121622-002G
File Name 070SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 01:37:47
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 0.279 | ug/l | 2181.04 |
| Be | 9 | 45 | 1 | NO GAS | 0.001 | ug/l | 4.67 |
| B | 11 | 45 | 1 | NO GAS | 22.183 | ug/l | 3655.00 |
| Na | 23 | 45 | 3 | He | 32733.217 | ug/l | 2047184.36 |
| Mg | 24 | 45 | 3 | He | 14339.208 | ug/l | 458545.24 |
| Al | 27 | 45 | 1 | NO GAS | 373.189 | ug/l | 844629.98 |
| Si | 28 | 45 | 2 | H2 | 20124.495 | ug/l | 221620.14 |
| K | 39 | 72 | 3 | He | 1936.076 | ug/l | 67012.30 |
| Ca | 40 | 72 | 2 | H2 | 13903.808 | ug/l | 1892021.09 |
| Ti | 47 | 72 | 1 | NO GAS | 38.111 | ug/l | 28359.62 |
| V | 51 | 72 | 1 | NO GAS | 7.076 | ug/l | 71892.97 |
| V | 51 | 72 | 3 | He | 10.609 | ug/l | 10751.24 |
| Cr | 52 | 72 | 1 | NO GAS | 2.984 | ug/l | 39811.28 |
| Cr | 52 | 72 | 3 | He | 2.593 | ug/l | 3789.61 |
| Cr | 53 | 72 | 1 | NO GAS | 81.382 | ug/l | 153904.85 |
| Mn | 55 | 72 | 1 | NO GAS | 5.786 | ug/l | 91284.79 |
| Mn | 55 | 72 | 3 | He | 5.917 | ug/l | 3954.20 |
| Fe | 56 | 72 | 2 | H2 | 341.853 | ug/l | 257219.37 |
| Fe | 56 | 72 | 3 | He | 355.198 | ug/l | 471031.76 |
| Co | 59 | 72 | 1 | NO GAS | 0.211 | ug/l | 2974.40 |
| Ni | 60 | 72 | 1 | NO GAS | 1.003 | ug/l | 3140.75 |
| Ni | 60 | 72 | 3 | He | 0.846 | ug/l | 774.47 |
| Ni | 62 | 72 | 1 | NO GAS | 0.993 | ug/l | 715.27 |
| Cu | 63 | 72 | 1 | NO GAS | 1.536 | ug/l | 12385.44 |
| Cu | 63 | 72 | 3 | He | 1.077 | ug/l | 3004.00 |
| Cu | 65 | 72 | 1 | NO GAS | 1.139 | ug/l | 4645.07 |
| Zn | 66 | 72 | 1 | NO GAS | 92.873 | ug/l | 237860.55 |
| Zn | 66 | 72 | 3 | He | 94.557 | ug/l | 36111.04 |
| As | 75 | 72 | 1 | NO GAS | 0.221 | ug/l | 3406.77 |
| As | 75 | 72 | 3 | He | 0.242 | ug/l | 62.99 |
| Se | 78 | 72 | 2 | H2 | 0.117 | ug/l | 10.00 |
| Br | 79 | 72 | 1 | NO GAS | 0.018 | ug/l | 56787.69 |
| Br | 79 | 72 | 2 | H2 | 1.302 | ug/l | 6961.05 |
| Se | 82 | 72 | 1 | NO GAS | 0.254 | ug/l | 210.25 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 31284.44 |
| Sr | 88 | 72 | 1 | NO GAS | 134.332 | ug/l | 4278571.14 |
| Sr | 88 | 72 | 3 | He | 123.915 | ug/l | 152217.35 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 1.205 | ug/l | 8497.82 |
| Mo | 95 | 72 | 3 | He | 1.185 | ug/l | 2519.10 |
| Mo | 98 | 72 | 1 | NO GAS | 1.170 | ug/l | 14145.86 |
| Ag | 107 | 72 | 1 | NO GAS | -0.061 | ug/l | 338.60 |
| Ag | 109 | 72 | 1 | NO GAS | -0.064 | ug/l | 269.95 |
| Cd | 111 | 159 | 1 | NO GAS | 0.013 | ug/l | 35.52 |
| Cd | 111 | 159 | 3 | He | 0.004 | ug/l | 6.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.011 | ug/l | -113.56 |
| Cd | 114 | 159 | 3 | He | 0.009 | ug/l | -0.13 |
| Sn | 118 | 159 | 1 | NO GAS | -2.248 | ug/l | 7440.35 |
| Sn | 118 | 159 | 3 | He | -2.085 | ug/l | 992.26 |
| Sb | 121 | 159 | 1 | NO GAS | 0.068 | ug/l | 1792.34 |
| Sb | 121 | 159 | 3 | He | 0.075 | ug/l | 271.12 |
| Sb | 123 | 159 | 1 | NO GAS | 0.074 | ug/l | 1538.98 |
| Sb | 123 | 159 | 3 | He | 0.091 | ug/l | 260.00 |
| Ba | 135 | 159 | 1 | NO GAS | 7.930 | ug/l | 40998.37 |
| Ba | 137 | 159 | 1 | NO GAS | 7.637 | ug/l | 69688.41 |
| La | 139 | 175 | 1 | NO GAS | 0.106 | ug/l | 9602.78 |
| La | 139 | 175 | 3 | He | 0.113 | ug/l | 1892.05 |
| Ce | 140 | 175 | 1 | NO GAS | 0.262 | ug/l | 23080.31 |
| Ce | 140 | 175 | 3 | He | 0.302 | ug/l | 6437.95 |
| Hg | 201 | 175 | 1 | NO GAS | 0.005 | ug/l | 38.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.009 | ug/l | 172.97 |
| Hg | 202 | 175 | 3 | He | 0.009 | ug/l | 78.31 |
| Tl | 203 | 175 | 3 | He | 0.087 | ug/l | 1227.81 |
| Tl | 205 | 175 | 1 | NO GAS | 0.059 | ug/l | 4431.81 |
| Tl | 205 | 175 | 3 | He | 0.093 | ug/l | 3081.71 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.057 | ug/l | 1416.75 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.052 | ug/l | 1150.06 |
| Pb | 208 | 175 | 1 | NO GAS | 0.055 | ug/l | 5435.99 |
| Th | 232 | 175 | 3 | He | 0.082 | ug/l | 4757.16 |
| U | 238 | 175 | 1 | NO GAS | 0.032 | ug/l | 3723.06 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1428816.84 | 76.6 |
| Sc | 45 | 2 | H2 | 47563.59 | 57.6 |
| Sc | 45 | 3 | He | 35244.05 | 70.1 |
| Ge | 72 | 1 | NO GAS | 754193.34 | 89.2 |
| Ge | 72 | 2 | H2 | 81329.68 | 68.6 |
| Ge | 72 | 3 | He | 62085.19 | 82.3 |
| Tb | 159 | 1 | NO GAS | 19689116.55 | 107.8 |
| Tb | 159 | 3 | He | 6712776.03 | 95.1 |
| Ho | 165 | 1 | NO GAS | 18640825.79 | 109.9 |
| Ho | 165 | 3 | He | 6530646.72 | 98.0 |
| Lu | 175 | 1 | NO GAS | 21145880.55 | 111.5 |
| Lu | 175 | 3 | He | 3958309.60 | 95.1 |

ICPMS206-B Analytical Data

Sample Name B21121622-003G
File Name 071SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 01:43:29
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -0.013 | ug/l | 2007.06 |
| Be | 9 | 45 | 1 | NO GAS | -0.013 | ug/l | 1.67 |
| B | 11 | 45 | 1 | NO GAS | 44.659 | ug/l | 7287.43 |
| Na | 23 | 45 | 3 | He | 32624.889 | ug/l | 2055422.00 |
| Mg | 24 | 45 | 3 | He | 9346.606 | ug/l | 301334.25 |
| Al | 27 | 45 | 1 | NO GAS | 2.864 | ug/l | 7018.15 |
| Si | 28 | 45 | 2 | H2 | 24392.864 | ug/l | 265329.00 |
| K | 39 | 72 | 3 | He | 1490.576 | ug/l | 51263.75 |
| Ca | 40 | 72 | 2 | H2 | 7029.270 | ug/l | 962455.90 |
| Ti | 47 | 72 | 1 | NO GAS | 2.172 | ug/l | 1585.97 |
| V | 51 | 72 | 1 | NO GAS | 17.129 | ug/l | 177536.67 |
| V | 51 | 72 | 3 | He | 19.419 | ug/l | 19322.24 |
| Cr | 52 | 72 | 1 | NO GAS | 2.585 | ug/l | 34536.84 |
| Cr | 52 | 72 | 3 | He | 2.297 | ug/l | 3317.10 |
| Cr | 53 | 72 | 1 | NO GAS | 75.656 | ug/l | 141445.18 |
| Mn | 55 | 72 | 1 | NO GAS | 1.606 | ug/l | 24999.14 |
| Mn | 55 | 72 | 3 | He | 1.468 | ug/l | 968.46 |
| Fe | 56 | 72 | 2 | H2 | 20.720 | ug/l | 15916.40 |
| Fe | 56 | 72 | 3 | He | 23.203 | ug/l | 30732.72 |
| Co | 59 | 72 | 1 | NO GAS | 0.054 | ug/l | 781.81 |
| Ni | 60 | 72 | 1 | NO GAS | 2.976 | ug/l | 8928.08 |
| Ni | 60 | 72 | 3 | He | 2.836 | ug/l | 2501.32 |
| Ni | 62 | 72 | 1 | NO GAS | 3.074 | ug/l | 1643.51 |
| Cu | 63 | 72 | 1 | NO GAS | 0.654 | ug/l | 5347.14 |
| Cu | 63 | 72 | 3 | He | 0.176 | ug/l | 618.22 |
| Cu | 65 | 72 | 1 | NO GAS | 0.251 | ug/l | 1151.81 |
| Zn | 66 | 72 | 1 | NO GAS | 8.113 | ug/l | 20533.56 |
| Zn | 66 | 72 | 3 | He | 8.160 | ug/l | 3135.88 |
| As | 75 | 72 | 1 | NO GAS | 0.331 | ug/l | 3593.32 |
| As | 75 | 72 | 3 | He | 0.050 | ug/l | 16.00 |
| Se | 78 | 72 | 2 | H2 | 0.094 | ug/l | 8.33 |
| Br | 79 | 72 | 1 | NO GAS | -2.135 | ug/l | 43053.83 |
| Br | 79 | 72 | 2 | H2 | -1.458 | ug/l | 5250.50 |
| Se | 82 | 72 | 1 | NO GAS | 1.275 | ug/l | 434.51 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 19886.03 |
| Sr | 88 | 72 | 1 | NO GAS | 75.037 | ug/l | 2317367.33 |
| Sr | 88 | 72 | 3 | He | 68.714 | ug/l | 83150.51 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.278 | ug/l | 1952.36 |
| Mo | 95 | 72 | 3 | He | 0.263 | ug/l | 572.24 |
| Mo | 98 | 72 | 1 | NO GAS | 0.290 | ug/l | 3492.84 |
| Ag | 107 | 72 | 1 | NO GAS | -0.067 | ug/l | 199.96 |
| Ag | 109 | 72 | 1 | NO GAS | -0.068 | ug/l | 185.96 |
| Cd | 111 | 159 | 1 | NO GAS | 0.007 | ug/l | -0.49 |
| Cd | 111 | 159 | 3 | He | 0.001 | ug/l | 2.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.023 | ug/l | 36.91 |
| Cd | 114 | 159 | 3 | He | 0.009 | ug/l | 0.63 |
| Sn | 118 | 159 | 1 | NO GAS | -2.362 | ug/l | 5560.01 |
| Sn | 118 | 159 | 3 | He | -2.178 | ug/l | 766.69 |
| Sb | 121 | 159 | 1 | NO GAS | 0.057 | ug/l | 1547.87 |
| Sb | 121 | 159 | 3 | He | 0.063 | ug/l | 232.22 |
| Sb | 123 | 159 | 1 | NO GAS | 0.059 | ug/l | 1262.28 |
| Sb | 123 | 159 | 3 | He | 0.064 | ug/l | 187.78 |
| Ba | 135 | 159 | 1 | NO GAS | 3.007 | ug/l | 15620.18 |
| Ba | 137 | 159 | 1 | NO GAS | 3.049 | ug/l | 27979.34 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 153.49 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 36.70 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 136.81 |
| Ce | 140 | 175 | 3 | He | 0.002 | ug/l | 56.72 |
| Hg | 201 | 175 | 1 | NO GAS | 0.004 | ug/l | 35.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.009 | ug/l | 170.97 |
| Hg | 202 | 175 | 3 | He | 0.010 | ug/l | 90.65 |
| Tl | 203 | 175 | 3 | He | 0.062 | ug/l | 912.52 |
| Tl | 205 | 175 | 1 | NO GAS | 0.040 | ug/l | 3101.47 |
| Tl | 205 | 175 | 3 | He | 0.065 | ug/l | 2261.73 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.015 | ug/l | 426.67 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.017 | ug/l | 413.34 |
| Pb | 208 | 175 | 1 | NO GAS | 0.017 | ug/l | 1863.39 |
| Th | 232 | 175 | 3 | He | 0.052 | ug/l | 3397.72 |
| U | 238 | 175 | 1 | NO GAS | 0.008 | ug/l | 1011.83 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1438334.89 | 77.1 |
| Sc | 45 | 2 | H2 | 46952.00 | 56.8 |
| Sc | 45 | 3 | He | 35520.55 | 70.6 |
| Ge | 72 | 1 | NO GAS | 730828.25 | 86.4 |
| Ge | 72 | 2 | H2 | 81787.13 | 69.0 |
| Ge | 72 | 3 | He | 61114.58 | 81.0 |
| Tb | 159 | 1 | NO GAS | 19778500.10 | 108.3 |
| Tb | 159 | 3 | He | 6667152.08 | 94.5 |
| Ho | 165 | 1 | NO GAS | 18788221.94 | 110.7 |
| Ho | 165 | 3 | He | 6454659.38 | 96.8 |
| Lu | 175 | 1 | NO GAS | 21279662.45 | 112.2 |
| Lu | 175 | 3 | He | 4014815.38 | 96.5 |

ICPMS206-B Analytical Data

Sample Name B21121623-001A
File Name 072SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 01:49:12
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 0.092 | ug/l | 2089.72 |
| Be | 9 | 45 | 1 | NO GAS | -0.007 | ug/l | 3.00 |
| B | 11 | 45 | 1 | NO GAS | 54.654 | ug/l | 8844.49 |
| Na | 23 | 45 | 3 | He | 36438.001 | ug/l | 2317640.74 |
| Mg | 24 | 45 | 3 | He | 9098.660 | ug/l | 295902.02 |
| Al | 27 | 45 | 1 | NO GAS | 33.691 | ug/l | 76894.22 |
| Si | 28 | 45 | 2 | H2 | 27392.613 | ug/l | 316121.47 |
| K | 39 | 72 | 3 | He | 1665.898 | ug/l | 58338.43 |
| Ca | 40 | 72 | 2 | H2 | 8187.158 | ug/l | 1128733.63 |
| Ti | 47 | 72 | 1 | NO GAS | 5.058 | ug/l | 3676.94 |
| V | 51 | 72 | 1 | NO GAS | -2.687 | ug/l | -35235.57 |
| V | 51 | 72 | 3 | He | 0.922 | ug/l | 1003.37 |
| Cr | 52 | 72 | 1 | NO GAS | 0.850 | ug/l | 16998.37 |
| Cr | 52 | 72 | 3 | He | 0.439 | ug/l | 738.56 |
| Cr | 53 | 72 | 1 | NO GAS | 64.541 | ug/l | 126817.52 |
| Mn | 55 | 72 | 1 | NO GAS | 488.334 | ug/l | 7438865.33 |
| Mn | 55 | 72 | 3 | He | 477.306 | ug/l | 320564.87 |
| Fe | 56 | 72 | 2 | H2 | 329.292 | ug/l | 251042.92 |
| Fe | 56 | 72 | 3 | He | 345.678 | ug/l | 461445.30 |
| Co | 59 | 72 | 1 | NO GAS | 0.577 | ug/l | 7813.03 |
| Ni | 60 | 72 | 1 | NO GAS | 1.315 | ug/l | 3989.26 |
| Ni | 60 | 72 | 3 | He | 1.255 | ug/l | 1146.72 |
| Ni | 62 | 72 | 1 | NO GAS | 1.398 | ug/l | 881.62 |
| Cu | 63 | 72 | 1 | NO GAS | 1.589 | ug/l | 12440.17 |
| Cu | 63 | 72 | 3 | He | 1.024 | ug/l | 2882.35 |
| Cu | 65 | 72 | 1 | NO GAS | 1.150 | ug/l | 4561.06 |
| Zn | 66 | 72 | 1 | NO GAS | 1.519 | ug/l | 4200.35 |
| Zn | 66 | 72 | 3 | He | 1.438 | ug/l | 626.68 |
| As | 75 | 72 | 1 | NO GAS | 0.632 | ug/l | 4404.30 |
| As | 75 | 72 | 3 | He | 0.984 | ug/l | 245.29 |
| Se | 78 | 72 | 2 | H2 | 0.046 | ug/l | 5.00 |
| Br | 79 | 72 | 1 | NO GAS | -1.655 | ug/l | 45869.23 |
| Br | 79 | 72 | 2 | H2 | -0.996 | ug/l | 5589.92 |
| Se | 82 | 72 | 1 | NO GAS | 0.752 | ug/l | 317.39 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 21085.16 |
| Sr | 88 | 72 | 1 | NO GAS | 86.311 | ug/l | 2673431.93 |
| Sr | 88 | 72 | 3 | He | 80.768 | ug/l | 99896.82 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 1.064 | ug/l | 7298.33 |
| Mo | 95 | 72 | 3 | He | 1.047 | ug/l | 2237.95 |
| Mo | 98 | 72 | 1 | NO GAS | 1.038 | ug/l | 12205.23 |
| Ag | 107 | 72 | 1 | NO GAS | -0.023 | ug/l | 1046.50 |
| Ag | 109 | 72 | 1 | NO GAS | -0.022 | ug/l | 1051.83 |
| Cd | 111 | 159 | 1 | NO GAS | 0.011 | ug/l | 24.20 |
| Cd | 111 | 159 | 3 | He | 0.001 | ug/l | 2.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.022 | ug/l | 28.65 |
| Cd | 114 | 159 | 3 | He | 0.013 | ug/l | 13.51 |
| Sn | 118 | 159 | 1 | NO GAS | -2.367 | ug/l | 5633.19 |
| Sn | 118 | 159 | 3 | He | -2.170 | ug/l | 783.36 |
| Sb | 121 | 159 | 1 | NO GAS | 0.144 | ug/l | 3716.01 |
| Sb | 121 | 159 | 3 | He | 0.159 | ug/l | 531.13 |
| Sb | 123 | 159 | 1 | NO GAS | 0.145 | ug/l | 2943.62 |
| Sb | 123 | 159 | 3 | He | 0.160 | ug/l | 436.68 |
| Ba | 135 | 159 | 1 | NO GAS | 3.497 | ug/l | 18647.42 |
| Ba | 137 | 159 | 1 | NO GAS | 3.457 | ug/l | 32552.29 |
| La | 139 | 175 | 1 | NO GAS | 0.026 | ug/l | 2442.69 |
| La | 139 | 175 | 3 | He | 0.025 | ug/l | 430.45 |
| Ce | 140 | 175 | 1 | NO GAS | 0.089 | ug/l | 7973.51 |
| Ce | 140 | 175 | 3 | He | 0.092 | ug/l | 2002.17 |
| Hg | 201 | 175 | 1 | NO GAS | 0.055 | ug/l | 272.95 |
| Hg | 202 | 175 | 1 | NO GAS | 0.879 | ug/l | 9316.01 |
| Hg | 202 | 175 | 3 | He | 0.639 | ug/l | 4156.08 |
| Tl | 203 | 175 | 3 | He | 0.053 | ug/l | 791.20 |
| Tl | 205 | 175 | 1 | NO GAS | 0.031 | ug/l | 2514.68 |
| Tl | 205 | 175 | 3 | He | 0.050 | ug/l | 1793.76 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.050 | ug/l | 1276.73 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.053 | ug/l | 1157.83 |
| Pb | 208 | 175 | 1 | NO GAS | 0.052 | ug/l | 5203.73 |
| Th | 232 | 175 | 3 | He | 0.047 | ug/l | 3181.72 |
| U | 238 | 175 | 1 | NO GAS | 0.019 | ug/l | 2281.39 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1431300.85 | 76.7 |
| Sc | 45 | 2 | H2 | 49829.38 | 60.3 |
| Sc | 45 | 3 | He | 35851.77 | 71.3 |
| Ge | 72 | 1 | NO GAS | 733012.53 | 86.7 |
| Ge | 72 | 2 | H2 | 82369.79 | 69.5 |
| Ge | 72 | 3 | He | 62475.20 | 82.8 |
| Tb | 159 | 1 | NO GAS | 20302852.13 | 111.2 |
| Tb | 159 | 3 | He | 6650068.12 | 94.2 |
| Ho | 165 | 1 | NO GAS | 18896427.22 | 111.4 |
| Ho | 165 | 3 | He | 6531312.75 | 98.0 |
| Lu | 175 | 1 | NO GAS | 21295973.14 | 112.3 |
| Lu | 175 | 3 | He | 4019568.26 | 96.6 |

ICPMS206-B Analytical Data

Sample Name B21121957-001H
File Name 073SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 01:54:53
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -0.406 | ug/l | 1790.41 |
| Be | 9 | 45 | 1 | NO GAS | -0.014 | ug/l | 1.33 |
| B | 11 | 45 | 1 | NO GAS | 58.155 | ug/l | 9486.05 |
| Na | 23 | 45 | 3 | He | 34517.651 | ug/l | 2245392.97 |
| Mg | 24 | 45 | 3 | He | 7535.929 | ug/l | 250719.53 |
| Al | 27 | 45 | 1 | NO GAS | 4.864 | ug/l | 11619.55 |
| Si | 28 | 45 | 2 | H2 | 21751.805 | ug/l | 251573.16 |
| K | 39 | 72 | 3 | He | 1432.862 | ug/l | 51488.85 |
| Ca | 40 | 72 | 2 | H2 | 5875.817 | ug/l | 841242.89 |
| Ti | 47 | 72 | 1 | NO GAS | 1.999 | ug/l | 1504.33 |
| V | 51 | 72 | 1 | NO GAS | 17.048 | ug/l | 181843.11 |
| V | 51 | 72 | 3 | He | 19.368 | ug/l | 20083.14 |
| Cr | 52 | 72 | 1 | NO GAS | 3.300 | ug/l | 42999.55 |
| Cr | 52 | 72 | 3 | He | 3.264 | ug/l | 4864.42 |
| Cr | 53 | 72 | 1 | NO GAS | 47.044 | ug/l | 105757.96 |
| Mn | 55 | 72 | 1 | NO GAS | 0.980 | ug/l | 15949.28 |
| Mn | 55 | 72 | 3 | He | 0.869 | ug/l | 600.07 |
| Fe | 56 | 72 | 2 | H2 | 17.257 | ug/l | 13908.95 |
| Fe | 56 | 72 | 3 | He | 18.025 | ug/l | 24992.85 |
| Co | 59 | 72 | 1 | NO GAS | 0.025 | ug/l | 402.54 |
| Ni | 60 | 72 | 1 | NO GAS | 0.319 | ug/l | 1034.66 |
| Ni | 60 | 72 | 3 | He | 0.237 | ug/l | 240.00 |
| Ni | 62 | 72 | 1 | NO GAS | 0.173 | ug/l | 329.35 |
| Cu | 63 | 72 | 1 | NO GAS | 0.818 | ug/l | 6771.36 |
| Cu | 63 | 72 | 3 | He | 0.331 | ug/l | 1064.49 |
| Cu | 65 | 72 | 1 | NO GAS | 0.396 | ug/l | 1750.42 |
| Zn | 66 | 72 | 1 | NO GAS | 12.193 | ug/l | 31522.72 |
| Zn | 66 | 72 | 3 | He | 12.148 | ug/l | 4826.29 |
| As | 75 | 72 | 1 | NO GAS | -0.193 | ug/l | 2264.89 |
| As | 75 | 72 | 3 | He | 0.074 | ug/l | 22.66 |
| Se | 78 | 72 | 2 | H2 | 0.172 | ug/l | 14.67 |
| Br | 79 | 72 | 1 | NO GAS | -3.439 | ug/l | 36847.93 |
| Br | 79 | 72 | 2 | H2 | -3.413 | ug/l | 4182.27 |
| Se | 82 | 72 | 1 | NO GAS | 0.629 | ug/l | 300.09 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 18373.92 |
| Sr | 88 | 72 | 1 | NO GAS | 66.711 | ug/l | 2120160.28 |
| Sr | 88 | 72 | 3 | He | 62.076 | ug/l | 78358.46 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 1.054 | ug/l | 7418.40 |
| Mo | 95 | 72 | 3 | He | 1.055 | ug/l | 2304.63 |
| Mo | 98 | 72 | 1 | NO GAS | 1.019 | ug/l | 12293.58 |
| Ag | 107 | 72 | 1 | NO GAS | -0.068 | ug/l | 190.63 |
| Ag | 109 | 72 | 1 | NO GAS | -0.069 | ug/l | 167.97 |
| Cd | 111 | 159 | 1 | NO GAS | 0.010 | ug/l | 14.33 |
| Cd | 111 | 159 | 3 | He | 0.010 | ug/l | 14.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.019 | ug/l | -12.13 |
| Cd | 114 | 159 | 3 | He | 0.018 | ug/l | 30.61 |
| Sn | 118 | 159 | 1 | NO GAS | -1.769 | ug/l | 15490.09 |
| Sn | 118 | 159 | 3 | He | -1.586 | ug/l | 2174.61 |
| Sb | 121 | 159 | 1 | NO GAS | 0.062 | ug/l | 1660.10 |
| Sb | 121 | 159 | 3 | He | 0.061 | ug/l | 224.45 |
| Sb | 123 | 159 | 1 | NO GAS | 0.066 | ug/l | 1393.41 |
| Sb | 123 | 159 | 3 | He | 0.064 | ug/l | 190.00 |
| Ba | 135 | 159 | 1 | NO GAS | 2.036 | ug/l | 10569.31 |
| Ba | 137 | 159 | 1 | NO GAS | 2.042 | ug/l | 18747.22 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 190.20 |
| La | 139 | 175 | 3 | He | 0.004 | ug/l | 73.41 |
| Ce | 140 | 175 | 1 | NO GAS | 0.003 | ug/l | 337.02 |
| Ce | 140 | 175 | 3 | He | 0.003 | ug/l | 76.74 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 48.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.027 | ug/l | 370.93 |
| Hg | 202 | 175 | 3 | He | 0.023 | ug/l | 171.97 |
| Tl | 203 | 175 | 3 | He | 0.041 | ug/l | 621.23 |
| Tl | 205 | 175 | 1 | NO GAS | 0.027 | ug/l | 2261.31 |
| Tl | 205 | 175 | 3 | He | 0.040 | ug/l | 1470.45 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.084 | ug/l | 2106.83 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.081 | ug/l | 1799.01 |
| Pb | 208 | 175 | 1 | NO GAS | 0.082 | ug/l | 8237.61 |
| Th | 232 | 175 | 3 | He | 0.035 | ug/l | 2571.06 |
| U | 238 | 175 | 1 | NO GAS | 0.007 | ug/l | 894.52 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1444051.40 | 77.4 |
| Sc | 45 | 2 | H2 | 49929.54 | 60.5 |
| Sc | 45 | 3 | He | 36664.61 | 72.9 |
| Ge | 72 | 1 | NO GAS | 752031.34 | 88.9 |
| Ge | 72 | 2 | H2 | 85559.31 | 72.2 |
| Ge | 72 | 3 | He | 63734.30 | 84.4 |
| Tb | 159 | 1 | NO GAS | 19767690.54 | 108.2 |
| Tb | 159 | 3 | He | 6699358.13 | 94.9 |
| Ho | 165 | 1 | NO GAS | 19167137.30 | 113.0 |
| Ho | 165 | 3 | He | 6614519.71 | 99.2 |
| Lu | 175 | 1 | NO GAS | 21638897.72 | 114.1 |
| Lu | 175 | 3 | He | 3974653.26 | 95.5 |

ICPMS206-B Analytical Data

Sample Name B21121957-001HDIL
File Name 074SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 02:00:38
Sample Type Sample
Total Dilution 5.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -1.629 | ug/l | 1805.07 |
| Be | 9 | 45 | 1 | NO GAS | -0.035 | ug/l | 3.00 |
| B | 11 | 45 | 1 | NO GAS | 56.849 | ug/l | 1998.39 |
| Na | 23 | 45 | 3 | He | 31755.471 | ug/l | 413973.05 |
| Mg | 24 | 45 | 3 | He | 7398.804 | ug/l | 48845.79 |
| Al | 27 | 45 | 1 | NO GAS | 12.439 | ug/l | 6314.53 |
| Si | 28 | 45 | 2 | H2 | 21136.097 | ug/l | 51115.18 |
| K | 39 | 72 | 3 | He | 1387.000 | ug/l | 11816.36 |
| Ca | 40 | 72 | 2 | H2 | 5996.999 | ug/l | 178149.20 |
| Ti | 47 | 72 | 1 | NO GAS | 1.675 | ug/l | 269.87 |
| V | 51 | 72 | 1 | NO GAS | 14.804 | ug/l | 26319.51 |
| V | 51 | 72 | 3 | He | 19.371 | ug/l | 4087.20 |
| Cr | 52 | 72 | 1 | NO GAS | 2.922 | ug/l | 14733.98 |
| Cr | 52 | 72 | 3 | He | 3.080 | ug/l | 1014.69 |
| Cr | 53 | 72 | 1 | NO GAS | 95.381 | ug/l | 67147.36 |
| Mn | 55 | 72 | 1 | NO GAS | 1.238 | ug/l | 4521.69 |
| Mn | 55 | 72 | 3 | He | 1.097 | ug/l | 155.02 |
| Fe | 56 | 72 | 2 | H2 | 18.785 | ug/l | 3335.37 |
| Fe | 56 | 72 | 3 | He | 21.008 | ug/l | 6226.43 |
| Co | 59 | 72 | 1 | NO GAS | 0.033 | ug/l | 156.36 |
| Ni | 60 | 72 | 1 | NO GAS | 0.255 | ug/l | 212.91 |
| Ni | 60 | 72 | 3 | He | 0.339 | ug/l | 85.56 |
| Ni | 62 | 72 | 1 | NO GAS | 0.967 | ug/l | 339.33 |
| Cu | 63 | 72 | 1 | NO GAS | 1.736 | ug/l | 3131.05 |
| Cu | 63 | 72 | 3 | He | 1.194 | ug/l | 815.86 |
| Cu | 65 | 72 | 1 | NO GAS | 1.236 | ug/l | 1175.81 |
| Zn | 66 | 72 | 1 | NO GAS | 26.816 | ug/l | 14171.01 |
| Zn | 66 | 72 | 3 | He | 27.487 | ug/l | 2233.50 |
| As | 75 | 72 | 1 | NO GAS | 3.452 | ug/l | 4702.43 |
| As | 75 | 72 | 3 | He | 0.102 | ug/l | 9.33 |
| Se | 78 | 72 | 2 | H2 | 0.123 | ug/l | 3.67 |
| Br | 79 | 72 | 1 | NO GAS | 1.930 | ug/l | 58960.52 |
| Br | 79 | 72 | 2 | H2 | 4.537 | ug/l | 7313.85 |
| Se | 82 | 72 | 1 | NO GAS | 4.807 | ug/l | 379.95 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 13089.29 |
| Sr | 88 | 72 | 1 | NO GAS | 63.750 | ug/l | 407066.60 |
| Sr | 88 | 72 | 3 | He | 60.823 | ug/l | 15561.89 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 1.073 | ug/l | 1570.09 |
| Mo | 95 | 72 | 3 | He | 1.006 | ug/l | 464.45 |
| Mo | 98 | 72 | 1 | NO GAS | 0.986 | ug/l | 2502.17 |
| Ag | 107 | 72 | 1 | NO GAS | -0.364 | ug/l | 101.32 |
| Ag | 109 | 72 | 1 | NO GAS | -0.363 | ug/l | 93.98 |
| Cd | 111 | 159 | 1 | NO GAS | 0.043 | ug/l | 7.68 |
| Cd | 111 | 159 | 3 | He | 0.019 | ug/l | 6.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.113 | ug/l | 36.35 |
| Cd | 114 | 159 | 3 | He | 0.053 | ug/l | 5.07 |
| Sn | 118 | 159 | 1 | NO GAS | -11.732 | ug/l | 5749.69 |
| Sn | 118 | 159 | 3 | He | -10.759 | ug/l | 848.92 |
| Sb | 121 | 159 | 1 | NO GAS | 0.144 | ug/l | 855.59 |
| Sb | 121 | 159 | 3 | He | 0.128 | ug/l | 115.56 |
| Sb | 123 | 159 | 1 | NO GAS | 0.126 | ug/l | 627.80 |
| Sb | 123 | 159 | 3 | He | 0.158 | ug/l | 106.66 |
| Ba | 135 | 159 | 1 | NO GAS | 3.134 | ug/l | 3223.97 |
| Ba | 137 | 159 | 1 | NO GAS | 2.861 | ug/l | 5217.25 |
| La | 139 | 175 | 1 | NO GAS | 0.006 | ug/l | 193.54 |
| La | 139 | 175 | 3 | He | 0.009 | ug/l | 30.03 |
| Ce | 140 | 175 | 1 | NO GAS | 0.012 | ug/l | 280.29 |
| Ce | 140 | 175 | 3 | He | 0.017 | ug/l | 93.43 |
| Hg | 201 | 175 | 1 | NO GAS | 0.005 | ug/l | 19.00 |
| Hg | 202 | 175 | 1 | NO GAS | 0.026 | ug/l | 133.31 |
| Hg | 202 | 175 | 3 | He | 0.026 | ug/l | 57.99 |
| Tl | 203 | 175 | 3 | He | 0.173 | ug/l | 547.24 |
| Tl | 205 | 175 | 1 | NO GAS | 0.112 | ug/l | 1866.81 |
| Tl | 205 | 175 | 3 | He | 0.178 | ug/l | 1335.80 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.200 | ug/l | 1014.49 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.194 | ug/l | 856.70 |
| Pb | 208 | 175 | 1 | NO GAS | 0.202 | ug/l | 4049.14 |
| Th | 232 | 175 | 3 | He | -0.011 | ug/l | 822.53 |
| U | 238 | 175 | 1 | NO GAS | 0.005 | ug/l | 247.29 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1475240.02 | 79.1 |
| Sc | 45 | 2 | H2 | 52197.75 | 63.2 |
| Sc | 45 | 3 | He | 36366.72 | 72.3 |
| Ge | 72 | 1 | NO GAS | 755006.63 | 89.3 |
| Ge | 72 | 2 | H2 | 88573.55 | 74.7 |
| Ge | 72 | 3 | He | 63899.26 | 84.7 |
| Tb | 159 | 1 | NO GAS | 19508524.92 | 106.8 |
| Tb | 159 | 3 | He | 6829196.40 | 96.8 |
| Ho | 165 | 1 | NO GAS | 18819254.84 | 110.9 |
| Ho | 165 | 3 | He | 6601631.71 | 99.0 |
| Lu | 175 | 1 | NO GAS | 20997367.46 | 110.7 |
| Lu | 175 | 3 | He | 4022424.71 | 96.7 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 075_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 02:06:24
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 287.850 | ug/l | 194169.05 |
| Be | 9 | 45 | 1 | NO GAS | 36.819 | ug/l | 9049.19 |
| B | 11 | 45 | 1 | NO GAS | 35.651 | ug/l | 6627.96 |
| Na | 23 | 45 | 3 | He | 10450.579 | ug/l | 777860.97 |
| Mg | 24 | 45 | 3 | He | 10258.504 | ug/l | 388334.73 |
| Al | 27 | 45 | 1 | NO GAS | 37.557 | ug/l | 97735.65 |
| Si | 28 | 45 | 2 | H2 | 219.763 | ug/l | 2939.68 |
| K | 39 | 72 | 3 | He | 9529.420 | ug/l | 370271.93 |
| Ca | 40 | 72 | 2 | H2 | 10091.439 | ug/l | 1614534.46 |
| Ti | 47 | 72 | 1 | NO GAS | 39.857 | ug/l | 31720.63 |
| V | 51 | 72 | 1 | NO GAS | 41.651 | ug/l | 485706.08 |
| V | 51 | 72 | 3 | He | 44.555 | ug/l | 51796.60 |
| Cr | 52 | 72 | 1 | NO GAS | 41.258 | ug/l | 470987.21 |
| Cr | 52 | 72 | 3 | He | 43.897 | ug/l | 71872.83 |
| Cr | 53 | 72 | 1 | NO GAS | 65.461 | ug/l | 140802.77 |
| Mn | 55 | 72 | 1 | NO GAS | 43.648 | ug/l | 731447.29 |
| Mn | 55 | 72 | 3 | He | 43.745 | ug/l | 33660.91 |
| Fe | 56 | 72 | 2 | H2 | 1078.683 | ug/l | 954330.17 |
| Fe | 56 | 72 | 3 | He | 1089.425 | ug/l | 1663331.53 |
| Co | 59 | 72 | 1 | NO GAS | 44.325 | ug/l | 654609.22 |
| Ni | 60 | 72 | 1 | NO GAS | 44.143 | ug/l | 145195.17 |
| Ni | 60 | 72 | 3 | He | 46.339 | ug/l | 47482.26 |
| Ni | 62 | 72 | 1 | NO GAS | 46.678 | ug/l | 23696.66 |
| Cu | 63 | 72 | 1 | NO GAS | 46.254 | ug/l | 385755.10 |
| Cu | 63 | 72 | 3 | He | 47.324 | ug/l | 144102.87 |
| Cu | 65 | 72 | 1 | NO GAS | 46.362 | ug/l | 193133.55 |
| Zn | 66 | 72 | 1 | NO GAS | 45.875 | ug/l | 125758.55 |
| Zn | 66 | 72 | 3 | He | 47.325 | ug/l | 20869.73 |
| As | 75 | 72 | 1 | NO GAS | 48.443 | ug/l | 144914.74 |
| As | 75 | 72 | 3 | He | 48.608 | ug/l | 13631.50 |
| Se | 78 | 72 | 2 | H2 | 52.876 | ug/l | 4474.38 |
| Br | 79 | 72 | 1 | NO GAS | 1.030 | ug/l | 66855.52 |
| Br | 79 | 72 | 2 | H2 | 1.563 | ug/l | 8382.23 |
| Se | 82 | 72 | 1 | NO GAS | 50.210 | ug/l | 12652.23 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 18920.08 |
| Sr | 88 | 72 | 1 | NO GAS | 51.256 | ug/l | 1745474.74 |
| Sr | 88 | 72 | 3 | He | 48.467 | ug/l | 68736.62 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 50.836 | ug/l | 379779.41 |
| Mo | 95 | 72 | 3 | He | 50.806 | ug/l | 122959.44 |
| Mo | 98 | 72 | 1 | NO GAS | 51.219 | ug/l | 655034.53 |
| Ag | 107 | 72 | 1 | NO GAS | 21.183 | ug/l | 447075.77 |
| Ag | 109 | 72 | 1 | NO GAS | 21.017 | ug/l | 436831.23 |
| Cd | 111 | 159 | 1 | NO GAS | 43.810 | ug/l | 264819.51 |
| Cd | 111 | 159 | 3 | He | 46.784 | ug/l | 63371.52 |
| Cd | 114 | 159 | 1 | NO GAS | 44.761 | ug/l | 620027.75 |
| Cd | 114 | 159 | 3 | He | 46.494 | ug/l | 163330.50 |
| Sn | 118 | 159 | 1 | NO GAS | 44.523 | ug/l | 808746.65 |
| Sn | 118 | 159 | 3 | He | 45.163 | ug/l | 114578.03 |
| Sb | 121 | 159 | 1 | NO GAS | 44.815 | ug/l | 1097415.36 |
| Sb | 121 | 159 | 3 | He | 46.209 | ug/l | 147779.53 |
| Sb | 123 | 159 | 1 | NO GAS | 45.244 | ug/l | 861299.44 |
| Sb | 123 | 159 | 3 | He | 46.273 | ug/l | 122498.67 |
| Ba | 135 | 159 | 1 | NO GAS | 45.577 | ug/l | 241895.56 |
| Ba | 137 | 159 | 1 | NO GAS | 45.406 | ug/l | 425058.85 |
| La | 139 | 175 | 1 | NO GAS | 45.024 | ug/l | 3992824.61 |
| La | 139 | 175 | 3 | He | 48.964 | ug/l | 829038.51 |
| Ce | 140 | 175 | 1 | NO GAS | 45.158 | ug/l | 3922085.98 |
| Ce | 140 | 175 | 3 | He | 48.995 | ug/l | 1054421.09 |
| Hg | 201 | 175 | 1 | NO GAS | 0.901 | ug/l | 4125.07 |
| Hg | 202 | 175 | 1 | NO GAS | 0.921 | ug/l | 9585.12 |
| Hg | 202 | 175 | 3 | He | 1.028 | ug/l | 6662.80 |
| Tl | 203 | 175 | 3 | He | 50.672 | ug/l | 671736.74 |
| Tl | 205 | 175 | 1 | NO GAS | 47.001 | ug/l | 3201903.39 |
| Tl | 205 | 175 | 3 | He | 52.589 | ug/l | 1652760.72 |
| [Pb] | 206 | 175 | 1 | NO GAS | 46.733 | ug/l | 1098777.72 |
| [Pb] | 207 | 175 | 1 | NO GAS | 45.370 | ug/l | 938496.85 |
| Pb | 208 | 175 | 1 | NO GAS | 45.968 | ug/l | 4324239.56 |
| Th | 232 | 175 | 3 | He | 52.445 | ug/l | 2483600.57 |
| U | 238 | 175 | 1 | NO GAS | 45.254 | ug/l | 4947199.27 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1639744.04 | 87.9 |
| Sc | 45 | 2 | H2 | 57525.94 | 69.7 |
| Sc | 45 | 3 | He | 41729.15 | 83.0 |
| Ge | 72 | 1 | NO GAS | 808917.28 | 95.6 |
| Ge | 72 | 2 | H2 | 95590.24 | 80.7 |
| Ge | 72 | 3 | He | 71556.99 | 94.8 |
| Tb | 159 | 1 | NO GAS | 20313007.08 | 111.2 |
| Tb | 159 | 3 | He | 6781112.33 | 96.1 |
| Ho | 165 | 1 | NO GAS | 19420959.86 | 114.5 |
| Ho | 165 | 3 | He | 6634050.85 | 99.5 |
| Lu | 175 | 1 | NO GAS | 21027300.10 | 110.9 |
| Lu | 175 | 3 | He | 4013792.61 | 96.5 |

ICPMS206-B Analytical Data

Sample Name CCB
File Name 076_CCB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 02:12:07
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.669 | ug/l | 2329.70 |
| Be | 9 | 45 | 1 | NO GAS | 0.004 | ug/l | 5.00 |
| B | 11 | 45 | 1 | NO GAS | 0.327 | ug/l | 177.30 |
| Na | 23 | 45 | 3 | He | 60.349 | ug/l | 8778.94 |
| Mg | 24 | 45 | 3 | He | 0.419 | ug/l | 23.29 |
| Al | 27 | 45 | 1 | NO GAS | -0.043 | ug/l | 388.90 |
| Si | 28 | 45 | 2 | H2 | 31.556 | ug/l | 383.27 |
| K | 39 | 72 | 3 | He | -7.694 | ug/l | 1945.68 |
| Ca | 40 | 72 | 2 | H2 | -0.189 | ug/l | 393.14 |
| Ti | 47 | 72 | 1 | NO GAS | 0.030 | ug/l | 43.31 |
| V | 51 | 72 | 1 | NO GAS | -0.607 | ug/l | -13477.13 |
| V | 51 | 72 | 3 | He | 0.115 | ug/l | 183.34 |
| Cr | 52 | 72 | 1 | NO GAS | 0.226 | ug/l | 11274.77 |
| Cr | 52 | 72 | 3 | He | -0.017 | ug/l | 83.17 |
| Cr | 53 | 72 | 1 | NO GAS | 35.830 | ug/l | 92926.72 |
| Mn | 55 | 72 | 1 | NO GAS | 0.002 | ug/l | 695.31 |
| Mn | 55 | 72 | 3 | He | -0.003 | ug/l | 2.67 |
| Fe | 56 | 72 | 2 | H2 | -0.047 | ug/l | 219.89 |
| Fe | 56 | 72 | 3 | He | -0.009 | ug/l | 471.44 |
| Co | 59 | 72 | 1 | NO GAS | -0.001 | ug/l | 53.23 |
| Ni | 60 | 72 | 1 | NO GAS | 0.000 | ug/l | 56.55 |
| Ni | 60 | 72 | 3 | He | -0.016 | ug/l | 8.89 |
| Ni | 62 | 72 | 1 | NO GAS | -0.005 | ug/l | 252.84 |
| Cu | 63 | 72 | 1 | NO GAS | -0.011 | ug/l | 348.60 |
| Cu | 63 | 72 | 3 | He | -0.015 | ug/l | 121.98 |
| Cu | 65 | 72 | 1 | NO GAS | -0.007 | ug/l | 191.30 |
| Zn | 66 | 72 | 1 | NO GAS | -0.076 | ug/l | 255.93 |
| Zn | 66 | 72 | 3 | He | -0.050 | ug/l | 55.56 |
| As | 75 | 72 | 1 | NO GAS | -0.034 | ug/l | 2690.36 |
| As | 75 | 72 | 3 | He | 0.010 | ug/l | 6.67 |
| Se | 78 | 72 | 2 | H2 | 0.038 | ug/l | 4.67 |
| Br | 79 | 72 | 1 | NO GAS | 0.299 | ug/l | 60232.76 |
| Br | 79 | 72 | 2 | H2 | 1.306 | ug/l | 7536.84 |
| Se | 82 | 72 | 1 | NO GAS | 0.745 | ug/l | 345.34 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6891.16 |
| Sr | 88 | 72 | 1 | NO GAS | 0.000 | ug/l | 306.07 |
| Sr | 88 | 72 | 3 | He | -0.040 | ug/l | 147.78 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.008 | ug/l | 130.00 |
| Mo | 95 | 72 | 3 | He | 0.005 | ug/l | 41.11 |
| Mo | 98 | 72 | 1 | NO GAS | 0.005 | ug/l | 202.44 |
| Ag | 107 | 72 | 1 | NO GAS | 0.005 | ug/l | 1687.76 |
| Ag | 109 | 72 | 1 | NO GAS | 0.009 | ug/l | 1714.42 |
| Cd | 111 | 159 | 1 | NO GAS | 0.003 | ug/l | -24.30 |
| Cd | 111 | 159 | 3 | He | 0.002 | ug/l | 2.67 |
| Cd | 114 | 159 | 1 | NO GAS | -0.004 | ug/l | -293.84 |
| Cd | 114 | 159 | 3 | He | -0.005 | ug/l | -45.47 |
| Sn | 118 | 159 | 1 | NO GAS | -0.082 | ug/l | 42712.30 |
| Sn | 118 | 159 | 3 | He | 0.236 | ug/l | 6028.95 |
| Sb | 121 | 159 | 1 | NO GAS | 0.065 | ug/l | 1701.22 |
| Sb | 121 | 159 | 3 | He | 0.053 | ug/l | 186.67 |
| Sb | 123 | 159 | 1 | NO GAS | 0.062 | ug/l | 1291.17 |
| Sb | 123 | 159 | 3 | He | 0.057 | ug/l | 156.67 |
| Ba | 135 | 159 | 1 | NO GAS | 0.004 | ug/l | 36.59 |
| Ba | 137 | 159 | 1 | NO GAS | 0.003 | ug/l | 69.86 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 66.73 |
| La | 139 | 175 | 3 | He | 0.000 | ug/l | 6.67 |
| Ce | 140 | 175 | 1 | NO GAS | 0.000 | ug/l | 43.38 |
| Ce | 140 | 175 | 3 | He | -0.001 | ug/l | 3.34 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 44.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.007 | ug/l | 144.97 |
| Hg | 202 | 175 | 3 | He | 0.009 | ug/l | 75.32 |
| Tl | 203 | 175 | 3 | He | 0.033 | ug/l | 491.25 |
| Tl | 205 | 175 | 1 | NO GAS | 0.027 | ug/l | 2080.16 |
| Tl | 205 | 175 | 3 | He | 0.037 | ug/l | 1289.14 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.001 | ug/l | 93.33 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.001 | ug/l | 77.78 |
| Pb | 208 | 175 | 1 | NO GAS | 0.001 | ug/l | 332.22 |
| Th | 232 | 175 | 3 | He | 0.045 | ug/l | 2875.72 |
| U | 238 | 175 | 1 | NO GAS | 0.003 | ug/l | 411.93 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1455630.98 | 78.0 |
| Sc | 45 | 2 | H2 | 51321.39 | 62.1 |
| Sc | 45 | 3 | He | 36480.25 | 72.5 |
| Ge | 72 | 1 | NO GAS | 783282.92 | 92.6 |
| Ge | 72 | 2 | H2 | 87988.25 | 74.2 |
| Ge | 72 | 3 | He | 63317.54 | 83.9 |
| Tb | 159 | 1 | NO GAS | 19536220.53 | 107.0 |
| Tb | 159 | 3 | He | 6327610.67 | 89.7 |
| Ho | 165 | 1 | NO GAS | 18077119.09 | 106.5 |
| Ho | 165 | 3 | He | 6190558.62 | 92.9 |
| Lu | 175 | 1 | NO GAS | 20056206.96 | 105.7 |
| Lu | 175 | 3 | He | 3831354.42 | 92.1 |

ICPMS206-B Analytical Data

Sample Name B21121957-001HPDS1
File Name 077_ARF.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 02:17:53
Sample Type AllRef
Total Dilution 1.0300
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 1136.836 | ug/l | 676234.91 |
| Be | 9 | 45 | 1 | NO GAS | 36.721 | ug/l | 7834.53 |
| B | 11 | 45 | 1 | NO GAS | 95.067 | ug/l | 15118.24 |
| Na | 23 | 45 | 3 | He | 76092.246 | ug/l | 4853838.16 |
| Mg | 24 | 45 | 3 | He | 52178.986 | ug/l | 1704955.87 |
| Al | 27 | 45 | 1 | NO GAS | 43.778 | ug/l | 98787.25 |
| Si | 28 | 45 | 2 | H2 | 20815.260 | ug/l | 238531.42 |
| K | 39 | 72 | 3 | He | 41722.144 | ug/l | 1413131.84 |
| Ca | 40 | 72 | 2 | H2 | 43615.997 | ug/l | 6154848.04 |
| Ti | 47 | 72 | 1 | NO GAS | 46.161 | ug/l | 33397.88 |
| V | 51 | 72 | 1 | NO GAS | 59.363 | ug/l | 632608.36 |
| V | 51 | 72 | 3 | He | 63.951 | ug/l | 65138.04 |
| Cr | 52 | 72 | 1 | NO GAS | 47.067 | ug/l | 487303.18 |
| Cr | 52 | 72 | 3 | He | 46.670 | ug/l | 66945.93 |
| Cr | 53 | 72 | 1 | NO GAS | 136.306 | ug/l | 225275.27 |
| Mn | 55 | 72 | 1 | NO GAS | 45.496 | ug/l | 693795.58 |
| Mn | 55 | 72 | 3 | He | 45.616 | ug/l | 30764.82 |
| Fe | 56 | 72 | 2 | H2 | 4085.198 | ug/l | 3187408.02 |
| Fe | 56 | 72 | 3 | He | 4369.357 | ug/l | 5846249.93 |
| Co | 59 | 72 | 1 | NO GAS | 45.442 | ug/l | 610566.39 |
| Ni | 60 | 72 | 1 | NO GAS | 44.719 | ug/l | 133842.39 |
| Ni | 60 | 72 | 3 | He | 45.320 | ug/l | 40698.00 |
| Ni | 62 | 72 | 1 | NO GAS | 45.452 | ug/l | 21058.37 |
| Cu | 63 | 72 | 1 | NO GAS | 45.762 | ug/l | 347089.53 |
| Cu | 63 | 72 | 3 | He | 45.920 | ug/l | 122550.46 |
| Cu | 65 | 72 | 1 | NO GAS | 44.420 | ug/l | 168367.32 |
| Zn | 66 | 72 | 1 | NO GAS | 50.359 | ug/l | 125635.90 |
| Zn | 66 | 72 | 3 | He | 52.220 | ug/l | 20178.87 |
| As | 75 | 72 | 1 | NO GAS | 46.767 | ug/l | 127613.88 |
| As | 75 | 72 | 3 | He | 46.555 | ug/l | 11444.97 |
| Se | 78 | 72 | 2 | H2 | 46.244 | ug/l | 3452.68 |
| Br | 79 | 72 | 1 | NO GAS | -2.921 | ug/l | 40465.51 |
| Br | 79 | 72 | 2 | H2 | -2.752 | ug/l | 4747.96 |
| Se | 82 | 72 | 1 | NO GAS | 45.589 | ug/l | 10485.95 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 27945.01 |
| Sr | 88 | 72 | 1 | NO GAS | 115.296 | ug/l | 3572594.80 |
| Sr | 88 | 72 | 3 | He | 110.329 | ug/l | 136875.57 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 53.841 | ug/l | 366217.49 |
| Mo | 95 | 72 | 3 | He | 53.573 | ug/l | 113655.17 |
| Mo | 98 | 72 | 1 | NO GAS | 53.786 | ug/l | 626112.13 |
| Ag | 107 | 72 | 1 | NO GAS | 21.753 | ug/l | 418104.13 |
| Ag | 109 | 72 | 1 | NO GAS | 21.762 | ug/l | 411726.84 |
| Cd | 111 | 159 | 1 | NO GAS | 43.737 | ug/l | 240540.44 |
| Cd | 111 | 159 | 3 | He | 44.338 | ug/l | 55281.89 |
| Cd | 114 | 159 | 1 | NO GAS | 44.356 | ug/l | 558508.55 |
| Cd | 114 | 159 | 3 | He | 44.273 | ug/l | 143109.65 |
| Sn | 118 | 159 | 1 | NO GAS | 47.532 | ug/l | 783417.90 |
| Sn | 118 | 159 | 3 | He | 47.149 | ug/l | 110026.86 |
| Sb | 121 | 159 | 1 | NO GAS | 46.230 | ug/l | 1028258.42 |
| Sb | 121 | 159 | 3 | He | 45.420 | ug/l | 133663.02 |
| Sb | 123 | 159 | 1 | NO GAS | 46.665 | ug/l | 807698.41 |
| Sb | 123 | 159 | 3 | He | 45.973 | ug/l | 112031.53 |
| Ba | 135 | 159 | 1 | NO GAS | 49.357 | ug/l | 238223.90 |
| Ba | 137 | 159 | 1 | NO GAS | 48.434 | ug/l | 412426.03 |
| La | 139 | 175 | 1 | NO GAS | 0.005 | ug/l | 490.51 |
| La | 139 | 175 | 3 | He | 0.004 | ug/l | 70.07 |
| Ce | 140 | 175 | 1 | NO GAS | 46.470 | ug/l | 3709554.09 |
| Ce | 140 | 175 | 3 | He | 47.989 | ug/l | 974720.52 |
| Hg | 201 | 175 | 1 | NO GAS | 0.918 | ug/l | 3858.73 |
| Hg | 202 | 175 | 1 | NO GAS | 0.937 | ug/l | 8941.84 |
| Hg | 202 | 175 | 3 | He | 0.960 | ug/l | 5874.63 |
| Tl | 203 | 175 | 3 | He | 48.166 | ug/l | 602789.08 |
| Tl | 205 | 175 | 1 | NO GAS | 48.636 | ug/l | 3037569.33 |
| Tl | 205 | 175 | 3 | He | 50.934 | ug/l | 1511580.18 |
| [Pb] | 206 | 175 | 1 | NO GAS | 47.527 | ug/l | 1025350.27 |
| [Pb] | 207 | 175 | 1 | NO GAS | 46.847 | ug/l | 889211.23 |
| Pb | 208 | 175 | 1 | NO GAS | 47.881 | ug/l | 4133820.34 |
| Th | 232 | 175 | 3 | He | 52.306 | ug/l | 2337739.02 |
| U | 238 | 175 | 1 | NO GAS | 47.863 | ug/l | 4803634.86 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1462653.05 | 78.4 |
| Sc | 45 | 2 | H2 | 50969.89 | 61.7 |
| Sc | 45 | 3 | He | 37063.49 | 73.7 |
| Ge | 72 | 1 | NO GAS | 755143.93 | 89.3 |
| Ge | 72 | 2 | H2 | 86852.64 | 73.3 |
| Ge | 72 | 3 | He | 64588.67 | 85.6 |
| Tb | 159 | 1 | NO GAS | 18943060.31 | 103.7 |
| Tb | 159 | 3 | He | 6430701.57 | 91.1 |
| Ho | 165 | 1 | NO GAS | 17680516.98 | 104.2 |
| Ho | 165 | 3 | He | 6306647.31 | 94.6 |
| Lu | 175 | 1 | NO GAS | 19765659.96 | 104.2 |
| Lu | 175 | 3 | He | 3904455.60 | 93.8 |

ICPMS206-B Analytical Data

Sample Name B21121957-001HMS4
File Name 078MS4.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 02:23:31
Sample Type MS4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 53.923 | ug/l | 36616.72 |
| Be | 9 | 45 | 1 | NO GAS | 40.124 | ug/l | 9697.42 |
| B | 11 | 45 | 1 | NO GAS | 144.114 | ug/l | 25904.02 |
| Na | 23 | 45 | 3 | He | 36733.434 | ug/l | 2665493.47 |
| Mg | 24 | 45 | 3 | He | 12063.881 | ug/l | 447759.28 |
| Al | 27 | 45 | 1 | NO GAS | 416.690 | ug/l | 1059679.76 |
| Si | 28 | 45 | 2 | H2 | 25285.616 | ug/l | 300557.29 |
| K | 39 | 72 | 3 | He | 5385.138 | ug/l | 205465.28 |
| Ca | 40 | 72 | 2 | H2 | 10818.126 | ug/l | 1556160.71 |
| Ti | 47 | 72 | 1 | NO GAS | 88.399 | ug/l | 70214.63 |
| V | 51 | 72 | 1 | NO GAS | 106.261 | ug/l | 1250414.18 |
| V | 51 | 72 | 3 | He | 108.545 | ug/l | 123141.29 |
| Cr | 52 | 72 | 1 | NO GAS | 91.609 | ug/l | 1032184.42 |
| Cr | 52 | 72 | 3 | He | 92.711 | ug/l | 148113.78 |
| Cr | 53 | 72 | 1 | NO GAS | 166.845 | ug/l | 291489.61 |
| Mn | 55 | 72 | 1 | NO GAS | 465.816 | ug/l | 7792441.05 |
| Mn | 55 | 72 | 3 | He | 452.754 | ug/l | 340413.85 |
| Fe | 56 | 72 | 2 | H2 | 490.215 | ug/l | 391731.40 |
| Fe | 56 | 72 | 3 | He | 454.883 | ug/l | 678921.19 |
| Co | 59 | 72 | 1 | NO GAS | 97.427 | ug/l | 1437333.04 |
| Ni | 60 | 72 | 1 | NO GAS | 93.331 | ug/l | 306669.42 |
| Ni | 60 | 72 | 3 | He | 94.568 | ug/l | 94660.68 |
| Ni | 62 | 72 | 1 | NO GAS | 95.733 | ug/l | 48397.19 |
| Cu | 63 | 72 | 1 | NO GAS | 95.847 | ug/l | 797772.75 |
| Cu | 63 | 72 | 3 | He | 96.700 | ug/l | 287463.55 |
| Cu | 65 | 72 | 1 | NO GAS | 96.992 | ug/l | 403438.32 |
| Zn | 66 | 72 | 1 | NO GAS | 100.062 | ug/l | 273615.57 |
| Zn | 66 | 72 | 3 | He | 96.380 | ug/l | 41453.25 |
| As | 75 | 72 | 1 | NO GAS | 95.212 | ug/l | 281975.48 |
| As | 75 | 72 | 3 | He | 91.954 | ug/l | 25198.19 |
| Se | 78 | 72 | 2 | H2 | 104.686 | ug/l | 7960.99 |
| Br | 79 | 72 | 1 | NO GAS | -3.453 | ug/l | 39388.84 |
| Br | 79 | 72 | 2 | H2 | -2.472 | ug/l | 4881.12 |
| Se | 82 | 72 | 1 | NO GAS | 95.239 | ug/l | 23865.89 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 41089.68 |
| Sr | 88 | 72 | 1 | NO GAS | 171.098 | ug/l | 5821421.68 |
| Sr | 88 | 72 | 3 | He | 160.732 | ug/l | 222258.13 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 106.446 | ug/l | 794995.53 |
| Mo | 95 | 72 | 3 | He | 105.668 | ug/l | 249852.50 |
| Mo | 98 | 72 | 1 | NO GAS | 106.276 | ug/l | 1358375.25 |
| Ag | 107 | 72 | 1 | NO GAS | 10.834 | ug/l | 229398.65 |
| Ag | 109 | 72 | 1 | NO GAS | 10.822 | ug/l | 225643.94 |
| Cd | 111 | 159 | 1 | NO GAS | 45.911 | ug/l | 268293.26 |
| Cd | 111 | 159 | 3 | He | 45.748 | ug/l | 62542.65 |
| Cd | 114 | 159 | 1 | NO GAS | 47.148 | ug/l | 630702.17 |
| Cd | 114 | 159 | 3 | He | 45.688 | ug/l | 162032.58 |
| Sn | 118 | 159 | 1 | NO GAS | 102.299 | ug/l | 1737531.21 |
| Sn | 118 | 159 | 3 | He | 97.576 | ug/l | 242857.35 |
| Sb | 121 | 159 | 1 | NO GAS | 97.482 | ug/l | 2304860.92 |
| Sb | 121 | 159 | 3 | He | 91.888 | ug/l | 296693.32 |
| Sb | 123 | 159 | 1 | NO GAS | 100.043 | ug/l | 1840167.61 |
| Sb | 123 | 159 | 3 | He | 92.766 | ug/l | 247860.37 |
| Ba | 135 | 159 | 1 | NO GAS | 96.024 | ug/l | 492483.62 |
| Ba | 137 | 159 | 1 | NO GAS | 94.817 | ug/l | 857808.94 |
| La | 139 | 175 | 1 | NO GAS | 98.126 | ug/l | 8556183.70 |
| La | 139 | 175 | 3 | He | 98.499 | ug/l | 1702142.17 |
| Ce | 140 | 175 | 1 | NO GAS | 97.361 | ug/l | 8322971.53 |
| Ce | 140 | 175 | 3 | He | 99.223 | ug/l | 2179485.14 |
| Hg | 201 | 175 | 1 | NO GAS | 0.012 | ug/l | 67.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.039 | ug/l | 472.58 |
| Hg | 202 | 175 | 3 | He | 0.030 | ug/l | 224.62 |
| Tl | 203 | 175 | 3 | He | 100.685 | ug/l | 1362414.46 |
| Tl | 205 | 175 | 1 | NO GAS | 96.481 | ug/l | 6450719.70 |
| Tl | 205 | 175 | 3 | He | 103.297 | ug/l | 3313558.97 |
| [Pb] | 206 | 175 | 1 | NO GAS | 100.702 | ug/l | 2326042.93 |
| [Pb] | 207 | 175 | 1 | NO GAS | 99.508 | ug/l | 2022639.60 |
| Pb | 208 | 175 | 1 | NO GAS | 99.515 | ug/l | 9198499.86 |
| Th | 232 | 175 | 3 | He | 105.316 | ug/l | 5088411.07 |
| U | 238 | 175 | 1 | NO GAS | 99.115 | ug/l | 10650775.91 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1604073.52 | 86.0 |
| Sc | 45 | 2 | H2 | 53787.39 | 65.1 |
| Sc | 45 | 3 | He | 40901.49 | 81.3 |
| Ge | 72 | 1 | NO GAS | 805555.94 | 95.2 |
| Ge | 72 | 2 | H2 | 91349.20 | 77.1 |
| Ge | 72 | 3 | He | 69921.36 | 92.6 |
| Tb | 159 | 1 | NO GAS | 19545086.27 | 107.0 |
| Tb | 159 | 3 | He | 6849255.26 | 97.0 |
| Ho | 165 | 1 | NO GAS | 18577797.98 | 109.5 |
| Ho | 165 | 3 | He | 6705311.74 | 100.6 |
| Lu | 175 | 1 | NO GAS | 20556304.33 | 108.4 |
| Lu | 175 | 3 | He | 4095509.84 | 98.4 |

ICPMS206-B Analytical Data

Sample Name B21121957-001HMSD4
File Name 079MSD4.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 02:29:07
Sample Type MSD4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 52.292 | ug/l | 34913.72 |
| Be | 9 | 45 | 1 | NO GAS | 38.404 | ug/l | 9035.53 |
| B | 11 | 45 | 1 | NO GAS | 139.492 | ug/l | 24406.34 |
| Na | 23 | 45 | 3 | He | 37397.953 | ug/l | 2416861.63 |
| Mg | 24 | 45 | 3 | He | 12135.487 | ug/l | 401053.07 |
| Al | 27 | 45 | 1 | NO GAS | 398.866 | ug/l | 987800.06 |
| Si | 28 | 45 | 2 | H2 | 23304.440 | ug/l | 277293.76 |
| K | 39 | 72 | 3 | He | 5412.973 | ug/l | 186513.17 |
| Ca | 40 | 72 | 2 | H2 | 10430.404 | ug/l | 1502336.98 |
| Ti | 47 | 72 | 1 | NO GAS | 84.434 | ug/l | 65465.20 |
| V | 51 | 72 | 1 | NO GAS | 108.647 | ug/l | 1246497.77 |
| V | 51 | 72 | 3 | He | 114.205 | ug/l | 117025.89 |
| Cr | 52 | 72 | 1 | NO GAS | 89.972 | ug/l | 989504.07 |
| Cr | 52 | 72 | 3 | He | 96.510 | ug/l | 139305.40 |
| Cr | 53 | 72 | 1 | NO GAS | 150.112 | ug/l | 260133.44 |
| Mn | 55 | 72 | 1 | NO GAS | 468.704 | ug/l | 7650179.89 |
| Mn | 55 | 72 | 3 | He | 467.945 | ug/l | 317677.37 |
| Fe | 56 | 72 | 2 | H2 | 455.959 | ug/l | 363391.80 |
| Fe | 56 | 72 | 3 | He | 460.496 | ug/l | 620667.44 |
| Co | 59 | 72 | 1 | NO GAS | 95.684 | ug/l | 1377656.44 |
| Ni | 60 | 72 | 1 | NO GAS | 91.211 | ug/l | 292464.45 |
| Ni | 60 | 72 | 3 | He | 97.191 | ug/l | 87869.55 |
| Ni | 62 | 72 | 1 | NO GAS | 97.004 | ug/l | 47843.68 |
| Cu | 63 | 72 | 1 | NO GAS | 94.222 | ug/l | 765407.86 |
| Cu | 63 | 72 | 3 | He | 99.742 | ug/l | 267716.80 |
| Cu | 65 | 72 | 1 | NO GAS | 96.057 | ug/l | 389816.32 |
| Zn | 66 | 72 | 1 | NO GAS | 104.045 | ug/l | 277568.72 |
| Zn | 66 | 72 | 3 | He | 105.558 | ug/l | 40970.13 |
| As | 75 | 72 | 1 | NO GAS | 95.111 | ug/l | 274930.15 |
| As | 75 | 72 | 3 | He | 96.197 | ug/l | 23796.49 |
| Se | 78 | 72 | 2 | H2 | 98.443 | ug/l | 7498.87 |
| Br | 79 | 72 | 1 | NO GAS | -4.115 | ug/l | 34471.08 |
| Br | 79 | 72 | 2 | H2 | -3.501 | ug/l | 4155.66 |
| Se | 82 | 72 | 1 | NO GAS | 92.620 | ug/l | 22658.42 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 38548.72 |
| Sr | 88 | 72 | 1 | NO GAS | 167.209 | ug/l | 5549386.21 |
| Sr | 88 | 72 | 3 | He | 168.204 | ug/l | 209978.55 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 108.418 | ug/l | 789913.03 |
| Mo | 95 | 72 | 3 | He | 111.653 | ug/l | 238402.68 |
| Mo | 98 | 72 | 1 | NO GAS | 109.378 | ug/l | 1363703.56 |
| Ag | 107 | 72 | 1 | NO GAS | 10.815 | ug/l | 223533.34 |
| Ag | 109 | 72 | 1 | NO GAS | 10.690 | ug/l | 217493.87 |
| Cd | 111 | 159 | 1 | NO GAS | 44.790 | ug/l | 265782.35 |
| Cd | 111 | 159 | 3 | He | 46.620 | ug/l | 59331.18 |
| Cd | 114 | 159 | 1 | NO GAS | 45.145 | ug/l | 613460.24 |
| Cd | 114 | 159 | 3 | He | 46.853 | ug/l | 154704.22 |
| Sn | 118 | 159 | 1 | NO GAS | 98.972 | ug/l | 1708068.89 |
| Sn | 118 | 159 | 3 | He | 98.951 | ug/l | 229180.23 |
| Sb | 121 | 159 | 1 | NO GAS | 95.986 | ug/l | 2303901.06 |
| Sb | 121 | 159 | 3 | He | 95.111 | ug/l | 285807.34 |
| Sb | 123 | 159 | 1 | NO GAS | 96.944 | ug/l | 1810796.48 |
| Sb | 123 | 159 | 3 | He | 96.862 | ug/l | 240945.80 |
| Ba | 135 | 159 | 1 | NO GAS | 93.809 | ug/l | 488646.15 |
| Ba | 137 | 159 | 1 | NO GAS | 92.622 | ug/l | 850916.88 |
| La | 139 | 175 | 1 | NO GAS | 93.644 | ug/l | 8242707.11 |
| La | 139 | 175 | 3 | He | 102.862 | ug/l | 1631789.99 |
| Ce | 140 | 175 | 1 | NO GAS | 93.912 | ug/l | 8104000.07 |
| Ce | 140 | 175 | 3 | He | 104.817 | ug/l | 2112053.50 |
| Hg | 201 | 175 | 1 | NO GAS | 0.008 | ug/l | 51.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.034 | ug/l | 422.92 |
| Hg | 202 | 175 | 3 | He | 0.027 | ug/l | 186.30 |
| Tl | 203 | 175 | 3 | He | 106.079 | ug/l | 1317300.32 |
| Tl | 205 | 175 | 1 | NO GAS | 95.095 | ug/l | 6418216.29 |
| Tl | 205 | 175 | 3 | He | 109.665 | ug/l | 3226390.84 |
| [Pb] | 206 | 175 | 1 | NO GAS | 99.738 | ug/l | 2325636.27 |
| [Pb] | 207 | 175 | 1 | NO GAS | 94.826 | ug/l | 1945407.16 |
| Pb | 208 | 175 | 1 | NO GAS | 96.070 | ug/l | 8964154.78 |
| Th | 232 | 175 | 3 | He | 109.477 | ug/l | 4848595.29 |
| U | 238 | 175 | 1 | NO GAS | 98.026 | ug/l | 10632832.58 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1565188.30 | 83.9 |
| Sc | 45 | 2 | H2 | 51375.40 | 62.2 |
| Sc | 45 | 3 | He | 36419.82 | 72.4 |
| Ge | 72 | 1 | NO GAS | 785826.89 | 92.9 |
| Ge | 72 | 2 | H2 | 86066.20 | 72.6 |
| Ge | 72 | 3 | He | 63151.58 | 83.7 |
| Tb | 159 | 1 | NO GAS | 19842797.31 | 108.6 |
| Tb | 159 | 3 | He | 6379031.57 | 90.4 |
| Ho | 165 | 1 | NO GAS | 18226937.55 | 107.4 |
| Ho | 165 | 3 | He | 6235954.49 | 93.5 |
| Lu | 175 | 1 | NO GAS | 20741224.87 | 109.4 |
| Lu | 175 | 3 | He | 3763179.32 | 90.4 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 080BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 02:34:40
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 1.079 | ug/l | 2517.02 |
| Be | 9 | 45 | 1 | NO GAS | -0.002 | ug/l | 3.67 |
| B | 11 | 45 | 1 | NO GAS | 0.633 | ug/l | 217.96 |
| Na | 23 | 45 | 3 | He | 144.649 | ug/l | 14716.31 |
| Mg | 24 | 45 | 3 | He | 1.080 | ug/l | 46.57 |
| Al | 27 | 45 | 1 | NO GAS | 0.152 | ug/l | 804.47 |
| Si | 28 | 45 | 2 | H2 | 23.152 | ug/l | 303.94 |
| K | 39 | 72 | 3 | He | -9.589 | ug/l | 1934.57 |
| Ca | 40 | 72 | 2 | H2 | 0.777 | ug/l | 539.75 |
| Ti | 47 | 72 | 1 | NO GAS | 0.037 | ug/l | 48.31 |
| V | 51 | 72 | 1 | NO GAS | -0.882 | ug/l | -16247.58 |
| V | 51 | 72 | 3 | He | 0.138 | ug/l | 213.34 |
| Cr | 52 | 72 | 1 | NO GAS | 0.146 | ug/l | 10026.48 |
| Cr | 52 | 72 | 3 | He | -0.022 | ug/l | 83.17 |
| Cr | 53 | 72 | 1 | NO GAS | 31.026 | ug/l | 82905.63 |
| Mn | 55 | 72 | 1 | NO GAS | 0.015 | ug/l | 868.31 |
| Mn | 55 | 72 | 3 | He | 0.013 | ug/l | 13.00 |
| Fe | 56 | 72 | 2 | H2 | 0.087 | ug/l | 331.51 |
| Fe | 56 | 72 | 3 | He | 0.094 | ug/l | 626.37 |
| Co | 59 | 72 | 1 | NO GAS | 0.004 | ug/l | 113.11 |
| Ni | 60 | 72 | 1 | NO GAS | 0.001 | ug/l | 59.88 |
| Ni | 60 | 72 | 3 | He | -0.010 | ug/l | 14.44 |
| Ni | 62 | 72 | 1 | NO GAS | 0.015 | ug/l | 252.84 |
| Cu | 63 | 72 | 1 | NO GAS | 0.001 | ug/l | 419.26 |
| Cu | 63 | 72 | 3 | He | -0.010 | ug/l | 141.97 |
| Cu | 65 | 72 | 1 | NO GAS | 0.002 | ug/l | 220.63 |
| Zn | 66 | 72 | 1 | NO GAS | -0.001 | ug/l | 432.27 |
| Zn | 66 | 72 | 3 | He | 0.039 | ug/l | 92.22 |
| As | 75 | 72 | 1 | NO GAS | 0.614 | ug/l | 4450.50 |
| As | 75 | 72 | 3 | He | 0.015 | ug/l | 8.00 |
| Se | 78 | 72 | 2 | H2 | 0.007 | ug/l | 2.33 |
| Br | 79 | 72 | 1 | NO GAS | -1.766 | ug/l | 46089.50 |
| Br | 79 | 72 | 2 | H2 | -1.354 | ug/l | 5769.60 |
| Se | 82 | 72 | 1 | NO GAS | 0.989 | ug/l | 381.27 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 6608.29 |
| Sr | 88 | 72 | 1 | NO GAS | 0.008 | ug/l | 568.89 |
| Sr | 88 | 72 | 3 | He | 0.001 | ug/l | 205.56 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.013 | ug/l | 156.67 |
| Mo | 95 | 72 | 3 | He | 0.007 | ug/l | 44.44 |
| Mo | 98 | 72 | 1 | NO GAS | 0.006 | ug/l | 206.19 |
| Ag | 107 | 72 | 1 | NO GAS | 0.010 | ug/l | 1711.76 |
| Ag | 109 | 72 | 1 | NO GAS | 0.005 | ug/l | 1580.44 |
| Cd | 111 | 159 | 1 | NO GAS | 0.011 | ug/l | 19.32 |
| Cd | 111 | 159 | 3 | He | 0.007 | ug/l | 9.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.006 | ug/l | -170.80 |
| Cd | 114 | 159 | 3 | He | 0.012 | ug/l | 8.46 |
| Sn | 118 | 159 | 1 | NO GAS | -2.495 | ug/l | 3097.61 |
| Sn | 118 | 159 | 3 | He | -2.339 | ug/l | 377.79 |
| Sb | 121 | 159 | 1 | NO GAS | 0.022 | ug/l | 653.35 |
| Sb | 121 | 159 | 3 | He | 0.019 | ug/l | 88.89 |
| Sb | 123 | 159 | 1 | NO GAS | 0.022 | ug/l | 528.90 |
| Sb | 123 | 159 | 3 | He | 0.024 | ug/l | 84.44 |
| Ba | 135 | 159 | 1 | NO GAS | 0.030 | ug/l | 156.36 |
| Ba | 137 | 159 | 1 | NO GAS | 0.018 | ug/l | 196.28 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 96.76 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 20.02 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 153.49 |
| Ce | 140 | 175 | 3 | He | 0.000 | ug/l | 20.02 |
| Hg | 201 | 175 | 1 | NO GAS | 0.002 | ug/l | 21.00 |
| Hg | 202 | 175 | 1 | NO GAS | 0.001 | ug/l | 77.98 |
| Hg | 202 | 175 | 3 | He | 0.001 | ug/l | 28.00 |
| Tl | 203 | 175 | 3 | He | 0.569 | ug/l | 7159.62 |
| Tl | 205 | 175 | 1 | NO GAS | 0.463 | ug/l | 29148.90 |
| Tl | 205 | 175 | 3 | He | 0.581 | ug/l | 17343.16 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.004 | ug/l | 147.78 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.005 | ug/l | 150.00 |
| Pb | 208 | 175 | 1 | NO GAS | 0.005 | ug/l | 618.90 |
| Th | 232 | 175 | 3 | He | 0.076 | ug/l | 4265.78 |
| U | 238 | 175 | 1 | NO GAS | 0.007 | ug/l | 834.53 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1384643.07 | 74.2 |
| Sc | 45 | 2 | H2 | 54323.25 | 65.8 |
| Sc | 45 | 3 | He | 37442.27 | 74.4 |
| Ge | 72 | 1 | NO GAS | 747041.98 | 88.3 |
| Ge | 72 | 2 | H2 | 88907.38 | 75.0 |
| Ge | 72 | 3 | He | 64041.46 | 84.8 |
| Tb | 159 | 1 | NO GAS | 18374227.74 | 100.6 |
| Tb | 159 | 3 | He | 6534516.11 | 92.6 |
| Ho | 165 | 1 | NO GAS | 17421497.97 | 102.7 |
| Ho | 165 | 3 | He | 6376714.67 | 95.7 |
| Lu | 175 | 1 | NO GAS | 19162746.24 | 101.0 |
| Lu | 175 | 3 | He | 3767633.07 | 90.5 |

ICPMS206-B Analytical Data

Sample Name B21121957-0011
File Name 081SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 02:40:23
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -0.090 | ug/l | 1775.07 |
| Be | 9 | 45 | 1 | NO GAS | -0.007 | ug/l | 3.67 |
| B | 11 | 45 | 1 | NO GAS | 65.276 | ug/l | 13149.04 |
| Na | 23 | 45 | 3 | He | 32821.684 | ug/l | 2946305.23 |
| Mg | 24 | 45 | 3 | He | 7629.027 | ug/l | 350222.22 |
| Al | 27 | 45 | 1 | NO GAS | 1.899 | ug/l | 5981.09 |
| Si | 28 | 45 | 2 | H2 | 22469.292 | ug/l | 437107.11 |
| K | 39 | 72 | 3 | He | 1603.646 | ug/l | 73549.73 |
| Ca | 40 | 72 | 2 | H2 | 7188.249 | ug/l | 1480833.50 |
| Ti | 47 | 72 | 1 | NO GAS | 1.768 | ug/l | 1509.33 |
| V | 51 | 72 | 1 | NO GAS | 20.584 | ug/l | 249810.95 |
| V | 51 | 72 | 3 | He | 19.094 | ug/l | 25403.58 |
| Cr | 52 | 72 | 1 | NO GAS | 2.753 | ug/l | 42215.66 |
| Cr | 52 | 72 | 3 | He | 2.869 | ug/l | 5506.71 |
| Cr | 53 | 72 | 1 | NO GAS | -13.764 | ug/l | 23994.86 |
| Mn | 55 | 72 | 1 | NO GAS | 0.795 | ug/l | 14770.54 |
| Mn | 55 | 72 | 3 | He | 0.738 | ug/l | 653.75 |
| Fe | 56 | 72 | 2 | H2 | 7.755 | ug/l | 9174.71 |
| Fe | 56 | 72 | 3 | He | 7.321 | ug/l | 13407.12 |
| Co | 59 | 72 | 1 | NO GAS | 0.018 | ug/l | 342.66 |
| Ni | 60 | 72 | 1 | NO GAS | 0.257 | ug/l | 958.14 |
| Ni | 60 | 72 | 3 | He | 0.152 | ug/l | 208.89 |
| Ni | 62 | 72 | 1 | NO GAS | 0.230 | ug/l | 402.54 |
| Cu | 63 | 72 | 1 | NO GAS | 1.013 | ug/l | 9376.78 |
| Cu | 63 | 72 | 3 | He | 0.544 | ug/l | 2104.38 |
| Cu | 65 | 72 | 1 | NO GAS | 0.623 | ug/l | 2978.35 |
| Zn | 66 | 72 | 1 | NO GAS | 9.130 | ug/l | 26827.62 |
| Zn | 66 | 72 | 3 | He | 8.454 | ug/l | 4341.71 |
| As | 75 | 72 | 1 | NO GAS | 0.224 | ug/l | 3847.21 |
| As | 75 | 72 | 3 | He | 0.113 | ug/l | 41.66 |
| Se | 78 | 72 | 2 | H2 | 0.163 | ug/l | 20.33 |
| Br | 79 | 72 | 1 | NO GAS | 6.142 | ug/l | 103707.57 |
| Br | 79 | 72 | 2 | H2 | 6.439 | ug/l | 15476.79 |
| Se | 82 | 72 | 1 | NO GAS | 0.954 | ug/l | 424.53 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 21005.19 |
| Sr | 88 | 72 | 1 | NO GAS | 62.138 | ug/l | 2234636.95 |
| Sr | 88 | 72 | 3 | He | 56.713 | ug/l | 91789.82 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.878 | ug/l | 7001.55 |
| Mo | 95 | 72 | 3 | He | 0.829 | ug/l | 2330.19 |
| Mo | 98 | 72 | 1 | NO GAS | 0.891 | ug/l | 12190.17 |
| Ag | 107 | 72 | 1 | NO GAS | -0.075 | ug/l | 66.65 |
| Ag | 109 | 72 | 1 | NO GAS | -0.075 | ug/l | 64.66 |
| Cd | 111 | 159 | 1 | NO GAS | 0.023 | ug/l | 81.11 |
| Cd | 111 | 159 | 3 | He | 0.013 | ug/l | 18.66 |
| Cd | 114 | 159 | 1 | NO GAS | -0.060 | ug/l | -979.96 |
| Cd | 114 | 159 | 3 | He | -0.098 | ug/l | -402.21 |
| Sn | 118 | 159 | 1 | NO GAS | 40.755 | ug/l | 657764.07 |
| Sn | 118 | 159 | 3 | He | 36.353 | ug/l | 99306.16 |
| Sb | 121 | 159 | 1 | NO GAS | 0.026 | ug/l | 728.91 |
| Sb | 121 | 159 | 3 | He | 0.013 | ug/l | 78.89 |
| Sb | 123 | 159 | 1 | NO GAS | 0.027 | ug/l | 610.02 |
| Sb | 123 | 159 | 3 | He | 0.016 | ug/l | 70.00 |
| Ba | 135 | 159 | 1 | NO GAS | 2.071 | ug/l | 9737.06 |
| Ba | 137 | 159 | 1 | NO GAS | 2.125 | ug/l | 17631.61 |
| La | 139 | 175 | 1 | NO GAS | 0.004 | ug/l | 394.13 |
| La | 139 | 175 | 3 | He | 0.003 | ug/l | 50.05 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 236.91 |
| Ce | 140 | 175 | 3 | He | 0.003 | ug/l | 76.74 |
| Hg | 201 | 175 | 1 | NO GAS | 0.002 | ug/l | 21.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.019 | ug/l | 247.95 |
| Hg | 202 | 175 | 3 | He | 0.016 | ug/l | 134.64 |
| Tl | 203 | 175 | 3 | He | 0.275 | ug/l | 3903.74 |
| Tl | 205 | 175 | 1 | NO GAS | 0.196 | ug/l | 12452.19 |
| Tl | 205 | 175 | 3 | He | 0.280 | ug/l | 9420.41 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.038 | ug/l | 877.81 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.042 | ug/l | 830.03 |
| Pb | 208 | 175 | 1 | NO GAS | 0.040 | ug/l | 3589.09 |
| Th | 232 | 175 | 3 | He | 0.015 | ug/l | 1709.77 |
| U | 238 | 175 | 1 | NO GAS | 0.007 | ug/l | 779.53 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1786168.09 | 95.7 |
| Sc | 45 | 2 | H2 | 84004.45 | 101.7 |
| Sc | 45 | 3 | He | 50591.31 | 100.6 |
| Ge | 72 | 1 | NO GAS | 851175.15 | 100.6 |
| Ge | 72 | 2 | H2 | 123100.36 | 103.9 |
| Ge | 72 | 3 | He | 81738.96 | 108.3 |
| Tb | 159 | 1 | NO GAS | 17879998.95 | 97.9 |
| Tb | 159 | 3 | He | 7213003.22 | 102.2 |
| Ho | 165 | 1 | NO GAS | 17047354.04 | 100.5 |
| Ho | 165 | 3 | He | 6844074.04 | 102.7 |
| Lu | 175 | 1 | NO GAS | 18897787.75 | 99.6 |
| Lu | 175 | 3 | He | 4195498.74 | 100.8 |

ICPMS206-B Analytical Data

Sample Name B21121957-001IDIL
File Name 082_ARF.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 02:46:07
Sample Type AllRef
Total Dilution 5.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 1.631 | ug/l | 2143.71 |
| Be | 9 | 45 | 1 | NO GAS | -0.079 | ug/l | 1.00 |
| B | 11 | 45 | 1 | NO GAS | 57.818 | ug/l | 1990.39 |
| Na | 23 | 45 | 3 | He | 29877.171 | ug/l | 391038.02 |
| Mg | 24 | 45 | 3 | He | 6935.086 | ug/l | 45904.80 |
| Al | 27 | 45 | 1 | NO GAS | 5.547 | ug/l | 3039.18 |
| Si | 28 | 45 | 2 | H2 | 26795.849 | ug/l | 54592.56 |
| K | 39 | 72 | 3 | He | 1351.825 | ug/l | 11599.60 |
| Ca | 40 | 72 | 2 | H2 | 6689.710 | ug/l | 177191.35 |
| Ti | 47 | 72 | 1 | NO GAS | 1.681 | ug/l | 273.20 |
| V | 51 | 72 | 1 | NO GAS | 15.641 | ug/l | 28402.81 |
| V | 51 | 72 | 3 | He | 18.460 | ug/l | 3906.04 |
| Cr | 52 | 72 | 1 | NO GAS | 2.144 | ug/l | 13172.49 |
| Cr | 52 | 72 | 3 | He | 3.032 | ug/l | 1001.39 |
| Cr | 53 | 72 | 1 | NO GAS | 68.808 | ug/l | 60090.40 |
| Mn | 55 | 72 | 1 | NO GAS | 0.786 | ug/l | 3124.12 |
| Mn | 55 | 72 | 3 | He | 0.790 | ug/l | 113.01 |
| Fe | 56 | 72 | 2 | H2 | 10.749 | ug/l | 1805.88 |
| Fe | 56 | 72 | 3 | He | 10.122 | ug/l | 3263.72 |
| Co | 59 | 72 | 1 | NO GAS | 0.007 | ug/l | 83.17 |
| Ni | 60 | 72 | 1 | NO GAS | 0.353 | ug/l | 276.12 |
| Ni | 60 | 72 | 3 | He | 0.288 | ug/l | 76.67 |
| Ni | 62 | 72 | 1 | NO GAS | 0.235 | ug/l | 272.80 |
| Cu | 63 | 72 | 1 | NO GAS | 2.059 | ug/l | 3653.02 |
| Cu | 63 | 72 | 3 | He | 1.665 | ug/l | 1074.15 |
| Cu | 65 | 72 | 1 | NO GAS | 1.682 | ug/l | 1534.44 |
| Zn | 66 | 72 | 1 | NO GAS | 15.363 | ug/l | 8355.27 |
| Zn | 66 | 72 | 3 | He | 15.322 | ug/l | 1281.17 |
| As | 75 | 72 | 1 | NO GAS | -2.173 | ug/l | 1616.70 |
| As | 75 | 72 | 3 | He | 0.087 | ug/l | 8.67 |
| Se | 78 | 72 | 2 | H2 | 0.253 | ug/l | 5.00 |
| Br | 79 | 72 | 1 | NO GAS | 10.811 | ug/l | 69597.70 |
| Br | 79 | 72 | 2 | H2 | 17.335 | ug/l | 8106.01 |
| Se | 82 | 72 | 1 | NO GAS | 0.143 | ug/l | 157.69 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 9344.20 |
| Sr | 88 | 72 | 1 | NO GAS | 60.513 | ug/l | 388730.95 |
| Sr | 88 | 72 | 3 | He | 58.469 | ug/l | 14999.15 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.996 | ug/l | 1471.20 |
| Mo | 95 | 72 | 3 | He | 0.954 | ug/l | 444.46 |
| Mo | 98 | 72 | 1 | NO GAS | 0.979 | ug/l | 2499.25 |
| Ag | 107 | 72 | 1 | NO GAS | -0.364 | ug/l | 99.98 |
| Ag | 109 | 72 | 1 | NO GAS | -0.363 | ug/l | 95.98 |
| Cd | 111 | 159 | 1 | NO GAS | 0.060 | ug/l | 26.61 |
| Cd | 111 | 159 | 3 | He | 0.023 | ug/l | 6.67 |
| Cd | 114 | 159 | 1 | NO GAS | -0.028 | ug/l | -335.04 |
| Cd | 114 | 159 | 3 | He | -0.020 | ug/l | -46.04 |
| Sn | 118 | 159 | 1 | NO GAS | 28.433 | ug/l | 135260.63 |
| Sn | 118 | 159 | 3 | He | 25.985 | ug/l | 18319.40 |
| Sb | 121 | 159 | 1 | NO GAS | 0.076 | ug/l | 521.13 |
| Sb | 121 | 159 | 3 | He | 0.054 | ug/l | 66.67 |
| Sb | 123 | 159 | 1 | NO GAS | 0.061 | ug/l | 382.23 |
| Sb | 123 | 159 | 3 | He | 0.059 | ug/l | 53.33 |
| Ba | 135 | 159 | 1 | NO GAS | 2.417 | ug/l | 2442.03 |
| Ba | 137 | 159 | 1 | NO GAS | 2.289 | ug/l | 4089.14 |
| La | 139 | 175 | 1 | NO GAS | 0.002 | ug/l | 110.11 |
| La | 139 | 175 | 3 | He | 0.009 | ug/l | 30.03 |
| Ce | 140 | 175 | 1 | NO GAS | 0.004 | ug/l | 136.81 |
| Ce | 140 | 175 | 3 | He | 0.006 | ug/l | 46.71 |
| Hg | 201 | 175 | 1 | NO GAS | 0.005 | ug/l | 18.67 |
| Hg | 202 | 175 | 1 | NO GAS | 0.017 | ug/l | 109.65 |
| Hg | 202 | 175 | 3 | He | 0.018 | ug/l | 46.99 |
| Tl | 203 | 175 | 3 | He | 0.614 | ug/l | 1705.10 |
| Tl | 205 | 175 | 1 | NO GAS | 0.426 | ug/l | 6011.28 |
| Tl | 205 | 175 | 3 | He | 0.601 | ug/l | 3964.41 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.086 | ug/l | 462.23 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.089 | ug/l | 408.90 |
| Pb | 208 | 175 | 1 | NO GAS | 0.091 | ug/l | 1894.51 |
| Th | 232 | 175 | 3 | He | 0.038 | ug/l | 1276.47 |
| U | 238 | 175 | 1 | NO GAS | 0.008 | ug/l | 296.61 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1446855.49 | 77.5 |
| Sc | 45 | 2 | H2 | 44544.79 | 53.9 |
| Sc | 45 | 3 | He | 36517.97 | 72.6 |
| Ge | 72 | 1 | NO GAS | 759648.06 | 89.8 |
| Ge | 72 | 2 | H2 | 79988.13 | 67.5 |
| Ge | 72 | 3 | He | 64060.87 | 84.9 |
| Tb | 159 | 1 | NO GAS | 19088409.40 | 104.5 |
| Tb | 159 | 3 | He | 6713282.58 | 95.1 |
| Ho | 165 | 1 | NO GAS | 18058935.38 | 106.4 |
| Ho | 165 | 3 | He | 6526407.74 | 97.9 |
| Lu | 175 | 1 | NO GAS | 20423311.55 | 107.7 |
| Lu | 175 | 3 | He | 3989289.17 | 95.9 |

ICPMS206-B Analytical Data

Sample Name B21121957-001IMS
File Name 083MS.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 02:51:52
Sample Type MS
Total Dilution 1.0300
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 1323.190 | ug/l | 731074.34 |
| Be | 9 | 45 | 1 | NO GAS | 39.839 | ug/l | 8664.75 |
| B | 11 | 45 | 1 | NO GAS | 92.566 | ug/l | 15015.55 |
| Na | 23 | 45 | 3 | He | 73066.214 | ug/l | 5416724.50 |
| Mg | 24 | 45 | 3 | He | 50907.672 | ug/l | 1932529.53 |
| Al | 27 | 45 | 1 | NO GAS | 42.476 | ug/l | 97751.74 |
| Si | 28 | 45 | 2 | H2 | 22119.690 | ug/l | 303120.47 |
| K | 39 | 72 | 3 | He | 43168.825 | ug/l | 1615471.36 |
| Ca | 40 | 72 | 2 | H2 | 48596.732 | ug/l | 7559136.24 |
| Ti | 47 | 72 | 1 | NO GAS | 47.894 | ug/l | 34050.81 |
| V | 51 | 72 | 1 | NO GAS | 64.535 | ug/l | 676087.46 |
| V | 51 | 72 | 3 | He | 64.423 | ug/l | 72474.19 |
| Cr | 52 | 72 | 1 | NO GAS | 47.677 | ug/l | 484125.95 |
| Cr | 52 | 72 | 3 | He | 46.474 | ug/l | 73697.98 |
| Cr | 53 | 72 | 1 | NO GAS | 74.461 | ug/l | 138796.36 |
| Mn | 55 | 72 | 1 | NO GAS | 46.932 | ug/l | 702006.05 |
| Mn | 55 | 72 | 3 | He | 45.293 | ug/l | 33755.15 |
| Fe | 56 | 72 | 2 | H2 | 4414.524 | ug/l | 3796775.71 |
| Fe | 56 | 72 | 3 | He | 4320.444 | ug/l | 6389520.62 |
| Co | 59 | 72 | 1 | NO GAS | 46.332 | ug/l | 610935.23 |
| Ni | 60 | 72 | 1 | NO GAS | 45.980 | ug/l | 135181.40 |
| Ni | 60 | 72 | 3 | He | 46.238 | ug/l | 45898.16 |
| Ni | 62 | 72 | 1 | NO GAS | 46.091 | ug/l | 20975.05 |
| Cu | 63 | 72 | 1 | NO GAS | 48.208 | ug/l | 359010.76 |
| Cu | 63 | 72 | 3 | He | 45.282 | ug/l | 133511.99 |
| Cu | 65 | 72 | 1 | NO GAS | 46.615 | ug/l | 173359.68 |
| Zn | 66 | 72 | 1 | NO GAS | 56.478 | ug/l | 138296.19 |
| Zn | 66 | 72 | 3 | He | 55.169 | ug/l | 23547.77 |
| As | 75 | 72 | 1 | NO GAS | 51.908 | ug/l | 138800.08 |
| As | 75 | 72 | 3 | He | 50.715 | ug/l | 13773.25 |
| Se | 78 | 72 | 2 | H2 | 52.355 | ug/l | 4307.71 |
| Br | 79 | 72 | 1 | NO GAS | 7.835 | ug/l | 98670.15 |
| Br | 79 | 72 | 2 | H2 | 9.169 | ug/l | 13871.79 |
| Se | 82 | 72 | 1 | NO GAS | 55.012 | ug/l | 12423.71 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 27188.52 |
| Sr | 88 | 72 | 1 | NO GAS | 113.525 | ug/l | 3452779.92 |
| Sr | 88 | 72 | 3 | He | 106.204 | ug/l | 145617.96 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 51.938 | ug/l | 346692.74 |
| Mo | 95 | 72 | 3 | He | 50.058 | ug/l | 117312.90 |
| Mo | 98 | 72 | 1 | NO GAS | 51.855 | ug/l | 592841.47 |
| Ag | 107 | 72 | 1 | NO GAS | 21.959 | ug/l | 414195.34 |
| Ag | 109 | 72 | 1 | NO GAS | 21.560 | ug/l | 400558.39 |
| Cd | 111 | 159 | 1 | NO GAS | 46.214 | ug/l | 235732.36 |
| Cd | 111 | 159 | 3 | He | 46.329 | ug/l | 57814.35 |
| Cd | 114 | 159 | 1 | NO GAS | 46.967 | ug/l | 548982.80 |
| Cd | 114 | 159 | 3 | He | 47.506 | ug/l | 153757.34 |
| Sn | 118 | 159 | 1 | NO GAS | 86.334 | ug/l | 1287362.07 |
| Sn | 118 | 159 | 3 | He | 85.876 | ug/l | 195877.47 |
| Sb | 121 | 159 | 1 | NO GAS | 50.476 | ug/l | 1042394.82 |
| Sb | 121 | 159 | 3 | He | 49.803 | ug/l | 146723.08 |
| Sb | 123 | 159 | 1 | NO GAS | 51.054 | ug/l | 818228.12 |
| Sb | 123 | 159 | 3 | He | 49.660 | ug/l | 121129.50 |
| Ba | 135 | 159 | 1 | NO GAS | 51.392 | ug/l | 229847.58 |
| Ba | 137 | 159 | 1 | NO GAS | 50.421 | ug/l | 398481.20 |
| La | 139 | 175 | 1 | NO GAS | 0.006 | ug/l | 540.57 |
| La | 139 | 175 | 3 | He | 0.005 | ug/l | 86.75 |
| Ce | 140 | 175 | 1 | NO GAS | 49.044 | ug/l | 3549623.87 |
| Ce | 140 | 175 | 3 | He | 48.843 | ug/l | 990576.69 |
| Hg | 201 | 175 | 1 | NO GAS | 0.979 | ug/l | 3723.05 |
| Hg | 202 | 175 | 1 | NO GAS | 0.993 | ug/l | 8584.05 |
| Hg | 202 | 175 | 3 | He | 1.009 | ug/l | 6162.69 |
| Tl | 203 | 175 | 3 | He | 47.394 | ug/l | 592190.09 |
| Tl | 205 | 175 | 1 | NO GAS | 46.229 | ug/l | 2619218.17 |
| Tl | 205 | 175 | 3 | He | 49.117 | ug/l | 1454116.45 |
| [Pb] | 206 | 175 | 1 | NO GAS | 47.733 | ug/l | 934838.69 |
| [Pb] | 207 | 175 | 1 | NO GAS | 46.438 | ug/l | 799302.59 |
| Pb | 208 | 175 | 1 | NO GAS | 47.067 | ug/l | 3688210.99 |
| Th | 232 | 175 | 3 | He | 50.762 | ug/l | 2264149.18 |
| U | 238 | 175 | 1 | NO GAS | 46.786 | ug/l | 4260334.92 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1497725.00 | 80.3 |
| Sc | 45 | 2 | H2 | 60983.34 | 73.8 |
| Sc | 45 | 3 | He | 43065.72 | 85.6 |
| Ge | 72 | 1 | NO GAS | 742714.53 | 87.8 |
| Ge | 72 | 2 | H2 | 95726.10 | 80.8 |
| Ge | 72 | 3 | He | 71365.42 | 94.6 |
| Tb | 159 | 1 | NO GAS | 17688849.68 | 96.8 |
| Tb | 159 | 3 | He | 6436200.87 | 91.2 |
| Ho | 165 | 1 | NO GAS | 16468930.64 | 97.1 |
| Ho | 165 | 3 | He | 6448332.74 | 96.7 |
| Lu | 175 | 1 | NO GAS | 17981590.54 | 94.8 |
| Lu | 175 | 3 | He | 3898868.86 | 93.7 |

ICPMS206-B Analytical Data

Sample Name B21121957-001IMSD
File Name 084MSD.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 02:57:36
Sample Type MSD
Total Dilution 1.0300
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 1671.125 | ug/l | 967662.72 |
| Be | 9 | 45 | 1 | NO GAS | 40.567 | ug/l | 10392.34 |
| B | 11 | 45 | 1 | NO GAS | 95.734 | ug/l | 18290.67 |
| Na | 23 | 45 | 3 | He | 74915.771 | ug/l | 6122765.81 |
| Mg | 24 | 45 | 3 | He | 52194.954 | ug/l | 2184687.27 |
| Al | 27 | 45 | 1 | NO GAS | 43.213 | ug/l | 117016.30 |
| Si | 28 | 45 | 2 | H2 | 21701.299 | ug/l | 350315.50 |
| K | 39 | 72 | 3 | He | 44371.733 | ug/l | 1787367.54 |
| Ca | 40 | 72 | 2 | H2 | 48205.067 | ug/l | 8782943.35 |
| Ti | 47 | 72 | 1 | NO GAS | 50.564 | ug/l | 39881.90 |
| V | 51 | 72 | 1 | NO GAS | 68.639 | ug/l | 798350.41 |
| V | 51 | 72 | 3 | He | 65.650 | ug/l | 79520.53 |
| Cr | 52 | 72 | 1 | NO GAS | 48.981 | ug/l | 552204.35 |
| Cr | 52 | 72 | 3 | He | 47.736 | ug/l | 81434.34 |
| Cr | 53 | 72 | 1 | NO GAS | 69.180 | ug/l | 146329.30 |
| Mn | 55 | 72 | 1 | NO GAS | 47.620 | ug/l | 791196.35 |
| Mn | 55 | 72 | 3 | He | 47.164 | ug/l | 37830.11 |
| Fe | 56 | 72 | 2 | H2 | 4254.376 | ug/l | 4283588.43 |
| Fe | 56 | 72 | 3 | He | 4427.461 | ug/l | 7047756.43 |
| Co | 59 | 72 | 1 | NO GAS | 45.963 | ug/l | 672952.38 |
| Ni | 60 | 72 | 1 | NO GAS | 45.590 | ug/l | 148723.03 |
| Ni | 60 | 72 | 3 | He | 46.334 | ug/l | 49500.33 |
| Ni | 62 | 72 | 1 | NO GAS | 47.593 | ug/l | 24016.40 |
| Cu | 63 | 72 | 1 | NO GAS | 48.023 | ug/l | 396993.06 |
| Cu | 63 | 72 | 3 | He | 46.307 | ug/l | 146972.44 |
| Cu | 65 | 72 | 1 | NO GAS | 46.409 | ug/l | 191676.12 |
| Zn | 66 | 72 | 1 | NO GAS | 55.119 | ug/l | 149801.04 |
| Zn | 66 | 72 | 3 | He | 54.426 | ug/l | 25010.94 |
| As | 75 | 72 | 1 | NO GAS | 51.626 | ug/l | 153170.61 |
| As | 75 | 72 | 3 | He | 50.080 | ug/l | 14639.82 |
| Se | 78 | 72 | 2 | H2 | 51.381 | ug/l | 4951.42 |
| Br | 79 | 72 | 1 | NO GAS | 7.210 | ug/l | 105675.60 |
| Br | 79 | 72 | 2 | H2 | 6.760 | ug/l | 14211.39 |
| Se | 82 | 72 | 1 | NO GAS | 55.409 | ug/l | 13848.08 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 29877.94 |
| Sr | 88 | 72 | 1 | NO GAS | 109.498 | ug/l | 3697863.93 |
| Sr | 88 | 72 | 3 | He | 105.289 | ug/l | 155422.18 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 50.420 | ug/l | 373747.98 |
| Mo | 95 | 72 | 3 | He | 48.784 | ug/l | 123045.22 |
| Mo | 98 | 72 | 1 | NO GAS | 50.197 | ug/l | 636772.53 |
| Ag | 107 | 72 | 1 | NO GAS | 20.673 | ug/l | 433055.16 |
| Ag | 109 | 72 | 1 | NO GAS | 20.453 | ug/l | 421870.94 |
| Cd | 111 | 159 | 1 | NO GAS | 47.833 | ug/l | 250175.58 |
| Cd | 111 | 159 | 3 | He | 47.946 | ug/l | 61675.92 |
| Cd | 114 | 159 | 1 | NO GAS | 49.598 | ug/l | 593891.39 |
| Cd | 114 | 159 | 3 | He | 46.838 | ug/l | 156272.72 |
| Sn | 118 | 159 | 1 | NO GAS | 90.889 | ug/l | 1387216.07 |
| Sn | 118 | 159 | 3 | He | 88.233 | ug/l | 207297.64 |
| Sb | 121 | 159 | 1 | NO GAS | 51.150 | ug/l | 1081967.48 |
| Sb | 121 | 159 | 3 | He | 51.124 | ug/l | 155293.11 |
| Sb | 123 | 159 | 1 | NO GAS | 52.369 | ug/l | 861899.30 |
| Sb | 123 | 159 | 3 | He | 49.859 | ug/l | 125365.16 |
| Ba | 135 | 159 | 1 | NO GAS | 51.289 | ug/l | 235375.74 |
| Ba | 137 | 159 | 1 | NO GAS | 50.403 | ug/l | 408174.03 |
| La | 139 | 175 | 1 | NO GAS | 0.005 | ug/l | 477.16 |
| La | 139 | 175 | 3 | He | 0.005 | ug/l | 83.42 |
| Ce | 140 | 175 | 1 | NO GAS | 48.134 | ug/l | 3664367.36 |
| Ce | 140 | 175 | 3 | He | 50.010 | ug/l | 1025041.26 |
| Hg | 201 | 175 | 1 | NO GAS | 0.941 | ug/l | 3773.06 |
| Hg | 202 | 175 | 1 | NO GAS | 0.977 | ug/l | 8896.50 |
| Hg | 202 | 175 | 3 | He | 1.023 | ug/l | 6315.06 |
| Tl | 203 | 175 | 3 | He | 48.049 | ug/l | 606939.92 |
| Tl | 205 | 175 | 1 | NO GAS | 46.273 | ug/l | 2754921.52 |
| Tl | 205 | 175 | 3 | He | 49.576 | ug/l | 1484847.30 |
| [Pb] | 206 | 175 | 1 | NO GAS | 47.177 | ug/l | 970523.43 |
| [Pb] | 207 | 175 | 1 | NO GAS | 46.663 | ug/l | 844969.79 |
| Pb | 208 | 175 | 1 | NO GAS | 46.871 | ug/l | 3859558.11 |
| Th | 232 | 175 | 3 | He | 50.716 | ug/l | 2287864.08 |
| U | 238 | 175 | 1 | NO GAS | 46.733 | ug/l | 4471964.21 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1750906.79 | 93.8 |
| Sc | 45 | 2 | H2 | 71801.30 | 86.9 |
| Sc | 45 | 3 | He | 47492.36 | 94.4 |
| Ge | 72 | 1 | NO GAS | 823094.81 | 97.3 |
| Ge | 72 | 2 | H2 | 112117.16 | 94.6 |
| Ge | 72 | 3 | He | 76824.49 | 101.8 |
| Tb | 159 | 1 | NO GAS | 18006260.63 | 98.6 |
| Tb | 159 | 3 | He | 6633948.61 | 94.0 |
| Ho | 165 | 1 | NO GAS | 17218505.82 | 101.5 |
| Ho | 165 | 3 | He | 6433780.43 | 96.5 |
| Lu | 175 | 1 | NO GAS | 18865664.79 | 99.5 |
| Lu | 175 | 3 | He | 3938739.95 | 94.7 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 085BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 03:03:14
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 3.484 | ug/l | 4075.01 |
| Be | 9 | 45 | 1 | NO GAS | -0.008 | ug/l | 3.33 |
| B | 11 | 45 | 1 | NO GAS | 0.748 | ug/l | 306.61 |
| Na | 23 | 45 | 3 | He | 141.663 | ug/l | 17511.12 |
| Mg | 24 | 45 | 3 | He | 2.309 | ug/l | 106.45 |
| Al | 27 | 45 | 1 | NO GAS | 0.170 | ug/l | 1101.16 |
| Si | 28 | 45 | 2 | H2 | 8.082 | ug/l | 145.31 |
| K | 39 | 72 | 3 | He | -2.625 | ug/l | 2505.76 |
| Ca | 40 | 72 | 2 | H2 | 0.963 | ug/l | 694.68 |
| Ti | 47 | 72 | 1 | NO GAS | 0.059 | ug/l | 71.63 |
| V | 51 | 72 | 1 | NO GAS | -1.470 | ug/l | -25125.57 |
| V | 51 | 72 | 3 | He | 0.169 | ug/l | 283.34 |
| Cr | 52 | 72 | 1 | NO GAS | 0.256 | ug/l | 12400.15 |
| Cr | 52 | 72 | 3 | He | -0.014 | ug/l | 109.78 |
| Cr | 53 | 72 | 1 | NO GAS | 43.772 | ug/l | 111733.91 |
| Mn | 55 | 72 | 1 | NO GAS | 0.014 | ug/l | 948.16 |
| Mn | 55 | 72 | 3 | He | 0.007 | ug/l | 10.33 |
| Fe | 56 | 72 | 2 | H2 | 0.165 | ug/l | 483.11 |
| Fe | 56 | 72 | 3 | He | 0.216 | ug/l | 912.91 |
| Co | 59 | 72 | 1 | NO GAS | 0.004 | ug/l | 133.07 |
| Ni | 60 | 72 | 1 | NO GAS | -0.001 | ug/l | 59.88 |
| Ni | 60 | 72 | 3 | He | -0.007 | ug/l | 20.00 |
| Ni | 62 | 72 | 1 | NO GAS | 0.010 | ug/l | 279.45 |
| Cu | 63 | 72 | 1 | NO GAS | 0.005 | ug/l | 505.91 |
| Cu | 63 | 72 | 3 | He | -0.009 | ug/l | 165.30 |
| Cu | 65 | 72 | 1 | NO GAS | -0.005 | ug/l | 211.96 |
| Zn | 66 | 72 | 1 | NO GAS | -0.044 | ug/l | 359.04 |
| Zn | 66 | 72 | 3 | He | -0.052 | ug/l | 65.55 |
| As | 75 | 72 | 1 | NO GAS | -0.230 | ug/l | 2371.07 |
| As | 75 | 72 | 3 | He | 0.006 | ug/l | 6.67 |
| Se | 78 | 72 | 2 | H2 | 0.037 | ug/l | 5.67 |
| Br | 79 | 72 | 1 | NO GAS | -1.451 | ug/l | 53216.61 |
| Br | 79 | 72 | 2 | H2 | -1.247 | ug/l | 7147.40 |
| Se | 82 | 72 | 1 | NO GAS | -0.788 | ug/l | -34.62 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8132.60 |
| Sr | 88 | 72 | 1 | NO GAS | 0.009 | ug/l | 638.75 |
| Sr | 88 | 72 | 3 | He | -0.017 | ug/l | 210.00 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.030 | ug/l | 308.90 |
| Mo | 95 | 72 | 3 | He | 0.026 | ug/l | 100.00 |
| Mo | 98 | 72 | 1 | NO GAS | 0.027 | ug/l | 510.08 |
| Ag | 107 | 72 | 1 | NO GAS | 0.002 | ug/l | 1737.09 |
| Ag | 109 | 72 | 1 | NO GAS | 0.007 | ug/l | 1803.75 |
| Cd | 111 | 159 | 1 | NO GAS | 0.000 | ug/l | -38.36 |
| Cd | 111 | 159 | 3 | He | 0.005 | ug/l | 7.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.008 | ug/l | -155.22 |
| Cd | 114 | 159 | 3 | He | 0.014 | ug/l | 15.43 |
| Sn | 118 | 159 | 1 | NO GAS | -2.191 | ug/l | 8006.19 |
| Sn | 118 | 159 | 3 | He | -2.023 | ug/l | 1181.17 |
| Sb | 121 | 159 | 1 | NO GAS | 0.018 | ug/l | 567.79 |
| Sb | 121 | 159 | 3 | He | 0.022 | ug/l | 106.66 |
| Sb | 123 | 159 | 1 | NO GAS | 0.017 | ug/l | 454.46 |
| Sb | 123 | 159 | 3 | He | 0.013 | ug/l | 57.78 |
| Ba | 135 | 159 | 1 | NO GAS | 0.023 | ug/l | 126.42 |
| Ba | 137 | 159 | 1 | NO GAS | 0.017 | ug/l | 199.61 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 153.49 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 26.69 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 206.88 |
| Ce | 140 | 175 | 3 | He | 0.003 | ug/l | 73.41 |
| Hg | 201 | 175 | 1 | NO GAS | 0.005 | ug/l | 34.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.006 | ug/l | 132.64 |
| Hg | 202 | 175 | 3 | He | 0.006 | ug/l | 60.66 |
| Tl | 203 | 175 | 3 | He | 0.242 | ug/l | 3297.72 |
| Tl | 205 | 175 | 1 | NO GAS | 0.198 | ug/l | 12613.17 |
| Tl | 205 | 175 | 3 | He | 0.242 | ug/l | 7824.48 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.007 | ug/l | 210.00 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.007 | ug/l | 176.67 |
| Pb | 208 | 175 | 1 | NO GAS | 0.006 | ug/l | 772.24 |
| Th | 232 | 175 | 3 | He | 0.062 | ug/l | 3871.75 |
| U | 238 | 175 | 1 | NO GAS | 0.005 | ug/l | 644.22 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1806643.87 | 96.8 |
| Sc | 45 | 2 | H2 | 69148.67 | 83.7 |
| Sc | 45 | 3 | He | 45163.42 | 89.8 |
| Ge | 72 | 1 | NO GAS | 830582.89 | 98.2 |
| Ge | 72 | 2 | H2 | 108758.71 | 91.8 |
| Ge | 72 | 3 | He | 73752.29 | 97.7 |
| Tb | 159 | 1 | NO GAS | 18780285.87 | 102.8 |
| Tb | 159 | 3 | He | 6978884.73 | 98.9 |
| Ho | 165 | 1 | NO GAS | 17883582.95 | 105.4 |
| Ho | 165 | 3 | He | 6624963.48 | 99.4 |
| Lu | 175 | 1 | NO GAS | 19134166.62 | 100.9 |
| Lu | 175 | 3 | He | 4020481.01 | 96.6 |

ICPMS206-B Analytical Data

Sample Name B21121959-001A
File Name 086SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 03:08:58
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 2.759 | ug/l | 3728.33 |
| Be | 9 | 45 | 1 | NO GAS | 0.004 | ug/l | 7.67 |
| B | 11 | 45 | 1 | NO GAS | 75.207 | ug/l | 18577.60 |
| Na | 23 | 45 | 3 | He | 49636.918 | ug/l | 5027877.77 |
| Mg | 24 | 45 | 3 | He | 23545.066 | ug/l | 1220821.18 |
| Al | 27 | 45 | 1 | NO GAS | 5.334 | ug/l | 19336.60 |
| Si | 28 | 45 | 2 | H2 | 35029.942 | ug/l | 795115.07 |
| K | 39 | 72 | 3 | He | 2460.557 | ug/l | 121394.95 |
| Ca | 40 | 72 | 2 | H2 | 11957.709 | ug/l | 2694654.14 |
| Ti | 47 | 72 | 1 | NO GAS | 3.925 | ug/l | 3661.95 |
| V | 51 | 72 | 1 | NO GAS | 1.799 | ug/l | 16518.88 |
| V | 51 | 72 | 3 | He | 1.074 | ug/l | 1650.09 |
| Cr | 52 | 72 | 1 | NO GAS | 0.031 | ug/l | 11134.97 |
| Cr | 52 | 72 | 3 | He | 0.132 | ug/l | 429.16 |
| Cr | 53 | 72 | 1 | NO GAS | -15.255 | ug/l | 24145.24 |
| Mn | 55 | 72 | 1 | NO GAS | 1660.136 | ug/l | 32543973.73 |
| Mn | 55 | 72 | 3 | He | 1628.900 | ug/l | 1561595.03 |
| Fe | 56 | 72 | 2 | H2 | 1378.533 | ug/l | 1696319.92 |
| Fe | 56 | 72 | 3 | He | 1266.690 | ug/l | 2410434.52 |
| Co | 59 | 72 | 1 | NO GAS | 1.586 | ug/l | 27491.57 |
| Ni | 60 | 72 | 1 | NO GAS | 2.197 | ug/l | 8541.93 |
| Ni | 60 | 72 | 3 | He | 2.106 | ug/l | 2718.02 |
| Ni | 62 | 72 | 1 | NO GAS | 2.151 | ug/l | 1583.61 |
| Cu | 63 | 72 | 1 | NO GAS | 1.097 | ug/l | 11216.22 |
| Cu | 63 | 72 | 3 | He | 0.499 | ug/l | 2124.05 |
| Cu | 65 | 72 | 1 | NO GAS | 0.547 | ug/l | 2935.02 |
| Zn | 66 | 72 | 1 | NO GAS | 3.906 | ug/l | 12995.39 |
| Zn | 66 | 72 | 3 | He | 4.768 | ug/l | 2716.90 |
| As | 75 | 72 | 1 | NO GAS | 0.512 | ug/l | 5292.76 |
| As | 75 | 72 | 3 | He | 0.356 | ug/l | 130.31 |
| Se | 78 | 72 | 2 | H2 | 0.042 | ug/l | 7.33 |
| Br | 79 | 72 | 1 | NO GAS | 4.140 | ug/l | 100504.92 |
| Br | 79 | 72 | 2 | H2 | 5.043 | ug/l | 15256.91 |
| Se | 82 | 72 | 1 | NO GAS | 1.011 | ug/l | 498.38 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 30194.62 |
| Sr | 88 | 72 | 1 | NO GAS | 90.941 | ug/l | 3625965.97 |
| Sr | 88 | 72 | 3 | He | 91.953 | ug/l | 162221.52 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.220 | ug/l | 2006.81 |
| Mo | 95 | 72 | 3 | He | 0.196 | ug/l | 632.24 |
| Mo | 98 | 72 | 1 | NO GAS | 0.187 | ug/l | 2971.41 |
| Ag | 107 | 72 | 1 | NO GAS | -0.075 | ug/l | 83.99 |
| Ag | 109 | 72 | 1 | NO GAS | -0.074 | ug/l | 93.32 |
| Cd | 111 | 159 | 1 | NO GAS | 0.004 | ug/l | -21.12 |
| Cd | 111 | 159 | 3 | He | 0.005 | ug/l | 7.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.021 | ug/l | 27.53 |
| Cd | 114 | 159 | 3 | He | 0.013 | ug/l | 13.37 |
| Sn | 118 | 159 | 1 | NO GAS | -2.479 | ug/l | 3593.32 |
| Sn | 118 | 159 | 3 | He | -2.267 | ug/l | 591.13 |
| Sb | 121 | 159 | 1 | NO GAS | 0.337 | ug/l | 8191.06 |
| Sb | 121 | 159 | 3 | He | 0.344 | ug/l | 1187.84 |
| Sb | 123 | 159 | 1 | NO GAS | 0.339 | ug/l | 6435.79 |
| Sb | 123 | 159 | 3 | He | 0.342 | ug/l | 972.26 |
| Ba | 135 | 159 | 1 | NO GAS | 17.541 | ug/l | 90724.54 |
| Ba | 137 | 159 | 1 | NO GAS | 17.177 | ug/l | 156938.35 |
| La | 139 | 175 | 1 | NO GAS | 0.016 | ug/l | 1438.21 |
| La | 139 | 175 | 3 | He | 0.020 | ug/l | 357.04 |
| Ce | 140 | 175 | 1 | NO GAS | 0.059 | ug/l | 5002.60 |
| Ce | 140 | 175 | 3 | He | 0.069 | ug/l | 1621.76 |
| Hg | 201 | 175 | 1 | NO GAS | 0.005 | ug/l | 36.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.024 | ug/l | 309.61 |
| Hg | 202 | 175 | 3 | He | 0.019 | ug/l | 159.64 |
| Tl | 203 | 175 | 3 | He | 0.167 | ug/l | 2471.05 |
| Tl | 205 | 175 | 1 | NO GAS | 0.130 | ug/l | 8767.09 |
| Tl | 205 | 175 | 3 | He | 0.168 | ug/l | 5898.66 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.035 | ug/l | 848.92 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.033 | ug/l | 708.92 |
| Pb | 208 | 175 | 1 | NO GAS | 0.034 | ug/l | 3292.39 |
| Th | 232 | 175 | 3 | He | 0.062 | ug/l | 4143.77 |
| U | 238 | 175 | 1 | NO GAS | 0.005 | ug/l | 643.22 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2242549.33 | 120.2 |
| Sc | 45 | 2 | H2 | 128730.81 | 155.9 |
| Sc | 45 | 3 | He | 57161.52 | 113.6 |
| Ge | 72 | 1 | NO GAS | 952114.39 | 112.6 |
| Ge | 72 | 2 | H2 | 164141.95 | 138.5 |
| Ge | 72 | 3 | He | 89129.38 | 118.1 |
| Tb | 159 | 1 | NO GAS | 20143121.79 | 110.3 |
| Tb | 159 | 3 | He | 7116649.47 | 100.8 |
| Ho | 165 | 1 | NO GAS | 18688606.91 | 110.1 |
| Ho | 165 | 3 | He | 7036458.60 | 105.5 |
| Lu | 175 | 1 | NO GAS | 20320259.96 | 107.1 |
| Lu | 175 | 3 | He | 4318723.88 | 103.8 |

ICPMS206-B Analytical Data

Sample Name B21121959-001B
File Name 087SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 03:14:42
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 3.947 | ug/l | 4243.01 |
| Be | 9 | 45 | 1 | NO GAS | 0.021 | ug/l | 10.33 |
| B | 11 | 45 | 1 | NO GAS | 71.573 | ug/l | 13443.90 |
| Na | 23 | 45 | 3 | He | 45221.672 | ug/l | 3361205.33 |
| Mg | 24 | 45 | 3 | He | 19915.522 | ug/l | 758506.44 |
| Al | 27 | 45 | 1 | NO GAS | 355.841 | ug/l | 940563.11 |
| Si | 28 | 45 | 2 | H2 | 31391.199 | ug/l | 450045.21 |
| K | 39 | 72 | 3 | He | 2197.826 | ug/l | 84536.52 |
| Ca | 40 | 72 | 2 | H2 | 11067.008 | ug/l | 1796769.79 |
| Ti | 47 | 72 | 1 | NO GAS | 33.487 | ug/l | 27009.95 |
| V | 51 | 72 | 1 | NO GAS | 0.891 | ug/l | 3733.85 |
| V | 51 | 72 | 3 | He | 2.709 | ug/l | 3120.88 |
| Cr | 52 | 72 | 1 | NO GAS | 1.916 | ug/l | 31020.52 |
| Cr | 52 | 72 | 3 | He | 1.351 | ug/l | 2262.36 |
| Cr | 53 | 72 | 1 | NO GAS | 73.187 | ug/l | 154375.50 |
| Mn | 55 | 72 | 1 | NO GAS | 1578.461 | ug/l | 26793192.43 |
| Mn | 55 | 72 | 3 | He | 1611.979 | ug/l | 1200505.10 |
| Fe | 56 | 72 | 2 | H2 | 2278.688 | ug/l | 2044784.00 |
| Fe | 56 | 72 | 3 | He | 2329.627 | ug/l | 3444072.39 |
| Co | 59 | 72 | 1 | NO GAS | 2.164 | ug/l | 32473.89 |
| Ni | 60 | 72 | 1 | NO GAS | 3.764 | ug/l | 12606.48 |
| Ni | 60 | 72 | 3 | He | 4.049 | ug/l | 4040.52 |
| Ni | 62 | 72 | 1 | NO GAS | 4.294 | ug/l | 2458.66 |
| Cu | 63 | 72 | 1 | NO GAS | 5.996 | ug/l | 51079.90 |
| Cu | 63 | 72 | 3 | He | 5.380 | ug/l | 16014.74 |
| Cu | 65 | 72 | 1 | NO GAS | 5.454 | ug/l | 23236.86 |
| Zn | 66 | 72 | 1 | NO GAS | 7.886 | ug/l | 22333.52 |
| Zn | 66 | 72 | 3 | He | 7.762 | ug/l | 3384.82 |
| As | 75 | 72 | 1 | NO GAS | 0.269 | ug/l | 3822.86 |
| As | 75 | 72 | 3 | He | 0.555 | ug/l | 155.30 |
| Se | 78 | 72 | 2 | H2 | 0.072 | ug/l | 8.00 |
| Br | 79 | 72 | 1 | NO GAS | -1.798 | ug/l | 50243.10 |
| Br | 79 | 72 | 2 | H2 | -1.267 | ug/l | 6365.34 |
| Se | 82 | 72 | 1 | NO GAS | -0.052 | ug/l | 151.03 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 27944.99 |
| Sr | 88 | 72 | 1 | NO GAS | 106.090 | ug/l | 3663255.64 |
| Sr | 88 | 72 | 3 | He | 100.868 | ug/l | 138271.49 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.400 | ug/l | 3106.43 |
| Mo | 95 | 72 | 3 | He | 0.379 | ug/l | 920.03 |
| Mo | 98 | 72 | 1 | NO GAS | 0.377 | ug/l | 5042.49 |
| Ag | 107 | 72 | 1 | NO GAS | 0.030 | ug/l | 2291.71 |
| Ag | 109 | 72 | 1 | NO GAS | 0.026 | ug/l | 2176.05 |
| Cd | 111 | 159 | 1 | NO GAS | 0.017 | ug/l | 57.54 |
| Cd | 111 | 159 | 3 | He | 0.010 | ug/l | 14.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.026 | ug/l | 83.48 |
| Cd | 114 | 159 | 3 | He | 0.021 | ug/l | 42.73 |
| Sn | 118 | 159 | 1 | NO GAS | -1.772 | ug/l | 14837.49 |
| Sn | 118 | 159 | 3 | He | -1.624 | ug/l | 2095.71 |
| Sb | 121 | 159 | 1 | NO GAS | 0.510 | ug/l | 11884.48 |
| Sb | 121 | 159 | 3 | He | 0.517 | ug/l | 1675.66 |
| Sb | 123 | 159 | 1 | NO GAS | 0.534 | ug/l | 9705.23 |
| Sb | 123 | 159 | 3 | He | 0.520 | ug/l | 1388.96 |
| Ba | 135 | 159 | 1 | NO GAS | 19.311 | ug/l | 96213.76 |
| Ba | 137 | 159 | 1 | NO GAS | 18.837 | ug/l | 165672.37 |
| La | 139 | 175 | 1 | NO GAS | 0.177 | ug/l | 14621.79 |
| La | 139 | 175 | 3 | He | 0.174 | ug/l | 2959.98 |
| Ce | 140 | 175 | 1 | NO GAS | 0.574 | ug/l | 46311.19 |
| Ce | 140 | 175 | 3 | He | 0.600 | ug/l | 12978.70 |
| Hg | 201 | 175 | 1 | NO GAS | 0.014 | ug/l | 72.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.055 | ug/l | 594.23 |
| Hg | 202 | 175 | 3 | He | 0.039 | ug/l | 276.62 |
| Tl | 203 | 175 | 3 | He | 0.081 | ug/l | 1162.49 |
| Tl | 205 | 175 | 1 | NO GAS | 0.058 | ug/l | 3955.56 |
| Tl | 205 | 175 | 3 | He | 0.085 | ug/l | 2912.38 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.579 | ug/l | 12667.61 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.546 | ug/l | 10505.96 |
| Pb | 208 | 175 | 1 | NO GAS | 0.567 | ug/l | 49582.35 |
| Th | 232 | 175 | 3 | He | 0.127 | ug/l | 6971.61 |
| U | 238 | 175 | 1 | NO GAS | 0.019 | ug/l | 2010.07 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1669078.79 | 89.4 |
| Sc | 45 | 2 | H2 | 61888.22 | 74.9 |
| Sc | 45 | 3 | He | 42005.68 | 83.5 |
| Ge | 72 | 1 | NO GAS | 817262.94 | 96.6 |
| Ge | 72 | 2 | H2 | 97059.53 | 81.9 |
| Ge | 72 | 3 | He | 69264.70 | 91.8 |
| Tb | 159 | 1 | NO GAS | 19001123.37 | 104.0 |
| Tb | 159 | 3 | He | 6733912.37 | 95.4 |
| Ho | 165 | 1 | NO GAS | 17400042.14 | 102.5 |
| Ho | 165 | 3 | He | 6697028.15 | 100.5 |
| Lu | 175 | 1 | NO GAS | 19378846.91 | 102.2 |
| Lu | 175 | 3 | He | 4029978.56 | 96.8 |

ICPMS206-B Analytical Data

Sample Name B21121961-001A
File Name 088SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 03:20:28
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 0.979 | ug/l | 2633.02 |
| Be | 9 | 45 | 1 | NO GAS | -0.011 | ug/l | 3.00 |
| B | 11 | 45 | 1 | NO GAS | 58.399 | ug/l | 14054.22 |
| Na | 23 | 45 | 3 | He | 36970.129 | ug/l | 3749300.74 |
| Mg | 24 | 45 | 3 | He | 8979.345 | ug/l | 465725.27 |
| Al | 27 | 45 | 1 | NO GAS | 5.941 | ug/l | 20770.39 |
| Si | 28 | 45 | 2 | H2 | 26870.280 | ug/l | 613724.70 |
| K | 39 | 72 | 3 | He | 1948.424 | ug/l | 96095.27 |
| Ca | 40 | 72 | 2 | H2 | 9972.563 | ug/l | 2296077.00 |
| Ti | 47 | 72 | 1 | NO GAS | 2.298 | ug/l | 2129.10 |
| V | 51 | 72 | 1 | NO GAS | 1.294 | ug/l | 9654.31 |
| V | 51 | 72 | 3 | He | 0.780 | ug/l | 1217.83 |
| Cr | 52 | 72 | 1 | NO GAS | -0.246 | ug/l | 7416.99 |
| Cr | 52 | 72 | 3 | He | 0.039 | ug/l | 239.53 |
| Cr | 53 | 72 | 1 | NO GAS | -18.281 | ug/l | 18442.23 |
| Mn | 55 | 72 | 1 | NO GAS | 524.960 | ug/l | 10125588.67 |
| Mn | 55 | 72 | 3 | He | 490.308 | ug/l | 466486.37 |
| Fe | 56 | 72 | 2 | H2 | 321.344 | ug/l | 409170.36 |
| Fe | 56 | 72 | 3 | He | 306.542 | ug/l | 579540.61 |
| Co | 59 | 72 | 1 | NO GAS | 0.502 | ug/l | 8621.86 |
| Ni | 60 | 72 | 1 | NO GAS | 1.002 | ug/l | 3862.85 |
| Ni | 60 | 72 | 3 | He | 0.974 | ug/l | 1265.61 |
| Ni | 62 | 72 | 1 | NO GAS | 1.022 | ug/l | 898.25 |
| Cu | 63 | 72 | 1 | NO GAS | 0.559 | ug/l | 5879.22 |
| Cu | 63 | 72 | 3 | He | 0.085 | ug/l | 550.90 |
| Cu | 65 | 72 | 1 | NO GAS | 0.136 | ug/l | 912.51 |
| Zn | 66 | 72 | 1 | NO GAS | 2.194 | ug/l | 7438.79 |
| Zn | 66 | 72 | 3 | He | 2.469 | ug/l | 1447.85 |
| As | 75 | 72 | 1 | NO GAS | 1.390 | ug/l | 8134.77 |
| As | 75 | 72 | 3 | He | 1.060 | ug/l | 373.27 |
| Se | 78 | 72 | 2 | H2 | 0.019 | ug/l | 5.00 |
| Br | 79 | 72 | 1 | NO GAS | 4.497 | ug/l | 101526.80 |
| Br | 79 | 72 | 2 | H2 | 4.470 | ug/l | 15170.35 |
| Se | 82 | 72 | 1 | NO GAS | 0.137 | ug/l | 226.90 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 24646.17 |
| Sr | 88 | 72 | 1 | NO GAS | 72.383 | ug/l | 2839310.39 |
| Sr | 88 | 72 | 3 | He | 70.612 | ug/l | 123744.74 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.610 | ug/l | 5332.03 |
| Mo | 95 | 72 | 3 | He | 0.569 | ug/l | 1744.55 |
| Mo | 98 | 72 | 1 | NO GAS | 0.569 | ug/l | 8547.83 |
| Ag | 107 | 72 | 1 | NO GAS | -0.074 | ug/l | 95.98 |
| Ag | 109 | 72 | 1 | NO GAS | -0.074 | ug/l | 93.98 |
| Cd | 111 | 159 | 1 | NO GAS | 0.005 | ug/l | -11.74 |
| Cd | 111 | 159 | 3 | He | 0.002 | ug/l | 3.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.019 | ug/l | -6.01 |
| Cd | 114 | 159 | 3 | He | 0.009 | ug/l | 0.67 |
| Sn | 118 | 159 | 1 | NO GAS | -2.551 | ug/l | 2435.39 |
| Sn | 118 | 159 | 3 | He | -2.330 | ug/l | 444.45 |
| Sb | 121 | 159 | 1 | NO GAS | 0.142 | ug/l | 3629.33 |
| Sb | 121 | 159 | 3 | He | 0.168 | ug/l | 612.24 |
| Sb | 123 | 159 | 1 | NO GAS | 0.142 | ug/l | 2841.38 |
| Sb | 123 | 159 | 3 | He | 0.159 | ug/l | 476.68 |
| Ba | 135 | 159 | 1 | NO GAS | 3.267 | ug/l | 17178.64 |
| Ba | 137 | 159 | 1 | NO GAS | 3.179 | ug/l | 29525.70 |
| La | 139 | 175 | 1 | NO GAS | 0.003 | ug/l | 323.67 |
| La | 139 | 175 | 3 | He | 0.006 | ug/l | 103.44 |
| Ce | 140 | 175 | 1 | NO GAS | 0.017 | ug/l | 1548.33 |
| Ce | 140 | 175 | 3 | He | 0.016 | ug/l | 410.42 |
| Hg | 201 | 175 | 1 | NO GAS | 0.035 | ug/l | 171.63 |
| Hg | 202 | 175 | 1 | NO GAS | 0.557 | ug/l | 5733.95 |
| Hg | 202 | 175 | 3 | He | 0.446 | ug/l | 3199.04 |
| Tl | 203 | 175 | 3 | He | 0.109 | ug/l | 1687.10 |
| Tl | 205 | 175 | 1 | NO GAS | 0.102 | ug/l | 7124.01 |
| Tl | 205 | 175 | 3 | He | 0.116 | ug/l | 4243.77 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.007 | ug/l | 238.89 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.006 | ug/l | 168.89 |
| Pb | 208 | 175 | 1 | NO GAS | 0.007 | ug/l | 878.91 |
| Th | 232 | 175 | 3 | He | 0.008 | ug/l | 1446.45 |
| U | 238 | 175 | 1 | NO GAS | 0.017 | ug/l | 1927.75 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2132684.71 | 114.3 |
| Sc | 45 | 2 | H2 | 98639.68 | 119.4 |
| Sc | 45 | 3 | He | 57167.94 | 113.6 |
| Ge | 72 | 1 | NO GAS | 928296.41 | 109.7 |
| Ge | 72 | 2 | H2 | 137558.95 | 116.1 |
| Ge | 72 | 3 | He | 88482.42 | 117.2 |
| Tb | 159 | 1 | NO GAS | 20071747.50 | 109.9 |
| Tb | 159 | 3 | He | 7274577.91 | 103.1 |
| Ho | 165 | 1 | NO GAS | 18633630.68 | 109.8 |
| Ho | 165 | 3 | He | 7180824.63 | 107.7 |
| Lu | 175 | 1 | NO GAS | 20601511.41 | 108.6 |
| Lu | 175 | 3 | He | 4416391.65 | 106.1 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 089_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 03:26:11
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 363.455 | ug/l | 246267.18 |
| Be | 9 | 45 | 1 | NO GAS | 41.198 | ug/l | 11254.36 |
| B | 11 | 45 | 1 | NO GAS | 40.350 | ug/l | 8311.02 |
| Na | 23 | 45 | 3 | He | 10598.190 | ug/l | 927997.37 |
| Mg | 24 | 45 | 3 | He | 10395.164 | ug/l | 463520.17 |
| Al | 27 | 45 | 1 | NO GAS | 42.738 | ug/l | 123371.38 |
| Si | 28 | 45 | 2 | H2 | 203.644 | ug/l | 3447.01 |
| K | 39 | 72 | 3 | He | 10162.931 | ug/l | 445716.48 |
| Ca | 40 | 72 | 2 | H2 | 11000.694 | ug/l | 2114569.23 |
| Ti | 47 | 72 | 1 | NO GAS | 43.365 | ug/l | 38070.35 |
| V | 51 | 72 | 1 | NO GAS | 45.922 | ug/l | 592295.58 |
| V | 51 | 72 | 3 | He | 46.335 | ug/l | 60827.52 |
| Cr | 52 | 72 | 1 | NO GAS | 45.683 | ug/l | 574028.19 |
| Cr | 52 | 72 | 3 | He | 45.265 | ug/l | 83680.56 |
| Cr | 53 | 72 | 1 | NO GAS | 73.576 | ug/l | 168792.72 |
| Mn | 55 | 72 | 1 | NO GAS | 47.013 | ug/l | 870005.90 |
| Mn | 55 | 72 | 3 | He | 45.074 | ug/l | 39169.86 |
| Fe | 56 | 72 | 2 | H2 | 1117.706 | ug/l | 1187975.60 |
| Fe | 56 | 72 | 3 | He | 1099.261 | ug/l | 1895852.98 |
| Co | 59 | 72 | 1 | NO GAS | 47.858 | ug/l | 780386.37 |
| Ni | 60 | 72 | 1 | NO GAS | 47.652 | ug/l | 173053.37 |
| Ni | 60 | 72 | 3 | He | 46.803 | ug/l | 54173.58 |
| Ni | 62 | 72 | 1 | NO GAS | 48.403 | ug/l | 27181.70 |
| Cu | 63 | 72 | 1 | NO GAS | 49.118 | ug/l | 452071.80 |
| Cu | 63 | 72 | 3 | He | 47.534 | ug/l | 163448.85 |
| Cu | 65 | 72 | 1 | NO GAS | 48.454 | ug/l | 222819.79 |
| Zn | 66 | 72 | 1 | NO GAS | 47.644 | ug/l | 144232.75 |
| Zn | 66 | 72 | 3 | He | 47.263 | ug/l | 23538.79 |
| As | 75 | 72 | 1 | NO GAS | 49.495 | ug/l | 163597.96 |
| As | 75 | 72 | 3 | He | 48.611 | ug/l | 15399.35 |
| Se | 78 | 72 | 2 | H2 | 52.168 | ug/l | 5303.13 |
| Br | 79 | 72 | 1 | NO GAS | 0.670 | ug/l | 71411.30 |
| Br | 79 | 72 | 2 | H2 | 1.972 | ug/l | 10436.04 |
| Se | 82 | 72 | 1 | NO GAS | 52.156 | ug/l | 14517.29 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 19233.08 |
| Sr | 88 | 72 | 1 | NO GAS | 52.640 | ug/l | 1978244.19 |
| Sr | 88 | 72 | 3 | He | 49.349 | ug/l | 79054.08 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 50.934 | ug/l | 420369.51 |
| Mo | 95 | 72 | 3 | He | 49.448 | ug/l | 135172.77 |
| Mo | 98 | 72 | 1 | NO GAS | 49.997 | ug/l | 706078.34 |
| Ag | 107 | 72 | 1 | NO GAS | 21.186 | ug/l | 494034.93 |
| Ag | 109 | 72 | 1 | NO GAS | 21.036 | ug/l | 482940.27 |
| Cd | 111 | 159 | 1 | NO GAS | 49.321 | ug/l | 295195.82 |
| Cd | 111 | 159 | 3 | He | 46.639 | ug/l | 68955.95 |
| Cd | 114 | 159 | 1 | NO GAS | 49.392 | ug/l | 676578.15 |
| Cd | 114 | 159 | 3 | He | 47.000 | ug/l | 180194.45 |
| Sn | 118 | 159 | 1 | NO GAS | 48.468 | ug/l | 867115.81 |
| Sn | 118 | 159 | 3 | He | 46.322 | ug/l | 128069.30 |
| Sb | 121 | 159 | 1 | NO GAS | 49.019 | ug/l | 1186592.74 |
| Sb | 121 | 159 | 3 | He | 46.947 | ug/l | 163833.66 |
| Sb | 123 | 159 | 1 | NO GAS | 50.018 | ug/l | 942006.08 |
| Sb | 123 | 159 | 3 | He | 46.979 | ug/l | 135735.11 |
| Ba | 135 | 159 | 1 | NO GAS | 50.053 | ug/l | 262818.69 |
| Ba | 137 | 159 | 1 | NO GAS | 49.868 | ug/l | 462073.96 |
| La | 139 | 175 | 1 | NO GAS | 47.770 | ug/l | 4258120.94 |
| La | 139 | 175 | 3 | He | 49.466 | ug/l | 896333.28 |
| Ce | 140 | 175 | 1 | NO GAS | 47.101 | ug/l | 4115672.40 |
| Ce | 140 | 175 | 3 | He | 49.343 | ug/l | 1136294.74 |
| Hg | 201 | 175 | 1 | NO GAS | 0.949 | ug/l | 4366.76 |
| Hg | 202 | 175 | 1 | NO GAS | 0.963 | ug/l | 10052.99 |
| Hg | 202 | 175 | 3 | He | 1.002 | ug/l | 6949.21 |
| Tl | 203 | 175 | 3 | He | 50.382 | ug/l | 715045.78 |
| Tl | 205 | 175 | 1 | NO GAS | 49.374 | ug/l | 3375947.55 |
| Tl | 205 | 175 | 3 | He | 51.623 | ug/l | 1738048.00 |
| [Pb] | 206 | 175 | 1 | NO GAS | 48.496 | ug/l | 1145180.43 |
| [Pb] | 207 | 175 | 1 | NO GAS | 47.102 | ug/l | 978772.07 |
| Pb | 208 | 175 | 1 | NO GAS | 48.653 | ug/l | 4597336.64 |
| Th | 232 | 175 | 3 | He | 50.420 | ug/l | 2555705.77 |
| U | 238 | 175 | 1 | NO GAS | 47.521 | ug/l | 5219402.61 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1813681.73 | 97.2 |
| Sc | 45 | 2 | H2 | 72706.59 | 88.0 |
| Sc | 45 | 3 | He | 49142.18 | 97.7 |
| Ge | 72 | 1 | NO GAS | 889838.86 | 105.2 |
| Ge | 72 | 2 | H2 | 114821.32 | 96.9 |
| Ge | 72 | 3 | He | 80804.98 | 107.1 |
| Tb | 159 | 1 | NO GAS | 20028188.52 | 109.6 |
| Tb | 159 | 3 | He | 7403363.21 | 104.9 |
| Ho | 165 | 1 | NO GAS | 19444544.27 | 114.6 |
| Ho | 165 | 3 | He | 7048599.55 | 105.7 |
| Lu | 175 | 1 | NO GAS | 21008577.63 | 110.8 |
| Lu | 175 | 3 | He | 4297588.37 | 103.3 |

ICPMS206-B Analytical Data

Sample Name CCB
File Name 090_CCB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 03:31:52
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 2.188 | ug/l | 3478.99 |
| Be | 9 | 45 | 1 | NO GAS | -0.010 | ug/l | 3.00 |
| B | 11 | 45 | 1 | NO GAS | 0.407 | ug/l | 246.62 |
| Na | 23 | 45 | 3 | He | 32.024 | ug/l | 8843.41 |
| Mg | 24 | 45 | 3 | He | 1.076 | ug/l | 56.55 |
| Al | 27 | 45 | 1 | NO GAS | -0.060 | ug/l | 457.79 |
| Si | 28 | 45 | 2 | H2 | 28.505 | ug/l | 481.25 |
| K | 39 | 72 | 3 | He | -9.519 | ug/l | 2302.40 |
| Ca | 40 | 72 | 2 | H2 | -0.649 | ug/l | 408.14 |
| Ti | 47 | 72 | 1 | NO GAS | 0.025 | ug/l | 44.98 |
| V | 51 | 72 | 1 | NO GAS | -0.636 | ug/l | -15506.79 |
| V | 51 | 72 | 3 | He | 0.110 | ug/l | 220.00 |
| Cr | 52 | 72 | 1 | NO GAS | 0.293 | ug/l | 13358.90 |
| Cr | 52 | 72 | 3 | He | -0.002 | ug/l | 133.07 |
| Cr | 53 | 72 | 1 | NO GAS | 37.824 | ug/l | 106765.82 |
| Mn | 55 | 72 | 1 | NO GAS | 0.004 | ug/l | 811.75 |
| Mn | 55 | 72 | 3 | He | -0.002 | ug/l | 3.33 |
| Fe | 56 | 72 | 2 | H2 | -0.064 | ug/l | 259.88 |
| Fe | 56 | 72 | 3 | He | -0.032 | ug/l | 539.75 |
| Co | 59 | 72 | 1 | NO GAS | -0.001 | ug/l | 53.23 |
| Ni | 60 | 72 | 1 | NO GAS | -0.005 | ug/l | 46.57 |
| Ni | 60 | 72 | 3 | He | -0.002 | ug/l | 25.56 |
| Ni | 62 | 72 | 1 | NO GAS | 0.027 | ug/l | 299.41 |
| Cu | 63 | 72 | 1 | NO GAS | -0.005 | ug/l | 432.59 |
| Cu | 63 | 72 | 3 | He | -0.009 | ug/l | 172.30 |
| Cu | 65 | 72 | 1 | NO GAS | -0.007 | ug/l | 212.63 |
| Zn | 66 | 72 | 1 | NO GAS | 0.021 | ug/l | 561.92 |
| Zn | 66 | 72 | 3 | He | -0.023 | ug/l | 81.11 |
| As | 75 | 72 | 1 | NO GAS | 0.266 | ug/l | 4035.84 |
| As | 75 | 72 | 3 | He | 0.005 | ug/l | 6.67 |
| Se | 78 | 72 | 2 | H2 | 0.045 | ug/l | 6.67 |
| Br | 79 | 72 | 1 | NO GAS | -0.337 | ug/l | 62713.91 |
| Br | 79 | 72 | 2 | H2 | 0.101 | ug/l | 8468.81 |
| Se | 82 | 72 | 1 | NO GAS | 0.487 | ug/l | 303.42 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7759.87 |
| Sr | 88 | 72 | 1 | NO GAS | 0.002 | ug/l | 412.53 |
| Sr | 88 | 72 | 3 | He | -0.005 | ug/l | 234.45 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.010 | ug/l | 156.67 |
| Mo | 95 | 72 | 3 | He | 0.005 | ug/l | 48.89 |
| Mo | 98 | 72 | 1 | NO GAS | 0.005 | ug/l | 221.81 |
| Ag | 107 | 72 | 1 | NO GAS | 0.010 | ug/l | 1993.07 |
| Ag | 109 | 72 | 1 | NO GAS | 0.007 | ug/l | 1866.41 |
| Cd | 111 | 159 | 1 | NO GAS | -0.003 | ug/l | -63.75 |
| Cd | 111 | 159 | 3 | He | 0.000 | ug/l | 1.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.002 | ug/l | -252.08 |
| Cd | 114 | 159 | 3 | He | 0.001 | ug/l | -30.81 |
| Sn | 118 | 159 | 1 | NO GAS | 0.012 | ug/l | 46044.58 |
| Sn | 118 | 159 | 3 | He | 0.135 | ug/l | 6720.33 |
| Sb | 121 | 159 | 1 | NO GAS | 0.049 | ug/l | 1384.51 |
| Sb | 121 | 159 | 3 | He | 0.031 | ug/l | 138.89 |
| Sb | 123 | 159 | 1 | NO GAS | 0.054 | ug/l | 1182.28 |
| Sb | 123 | 159 | 3 | He | 0.042 | ug/l | 142.22 |
| Ba | 135 | 159 | 1 | NO GAS | 0.005 | ug/l | 39.92 |
| Ba | 137 | 159 | 1 | NO GAS | -0.002 | ug/l | 36.59 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 53.39 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 16.68 |
| Ce | 140 | 175 | 1 | NO GAS | 0.000 | ug/l | 93.43 |
| Ce | 140 | 175 | 3 | He | 0.000 | ug/l | 16.68 |
| Hg | 201 | 175 | 1 | NO GAS | 0.004 | ug/l | 32.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.004 | ug/l | 120.98 |
| Hg | 202 | 175 | 3 | He | 0.004 | ug/l | 54.99 |
| Tl | 203 | 175 | 3 | He | 0.053 | ug/l | 817.86 |
| Tl | 205 | 175 | 1 | NO GAS | 0.038 | ug/l | 2914.76 |
| Tl | 205 | 175 | 3 | He | 0.052 | ug/l | 1925.08 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.000 | ug/l | 73.33 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.000 | ug/l | 57.78 |
| Pb | 208 | 175 | 1 | NO GAS | 0.001 | ug/l | 310.01 |
| Th | 232 | 175 | 3 | He | 0.037 | ug/l | 2773.05 |
| U | 238 | 175 | 1 | NO GAS | 0.002 | ug/l | 344.27 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1855711.57 | 99.4 |
| Sc | 45 | 2 | H2 | 70382.91 | 85.2 |
| Sc | 45 | 3 | He | 45661.10 | 90.8 |
| Ge | 72 | 1 | NO GAS | 863831.06 | 102.1 |
| Ge | 72 | 2 | H2 | 110967.57 | 93.6 |
| Ge | 72 | 3 | He | 76082.22 | 100.8 |
| Tb | 159 | 1 | NO GAS | 20131080.16 | 110.2 |
| Tb | 159 | 3 | He | 7191328.78 | 101.9 |
| Ho | 165 | 1 | NO GAS | 19001100.64 | 112.0 |
| Ho | 165 | 3 | He | 7005201.52 | 105.1 |
| Lu | 175 | 1 | NO GAS | 21102717.18 | 111.3 |
| Lu | 175 | 3 | He | 4152165.40 | 99.8 |

ICPMS206-B Analytical Data

Sample Name B21121961-001B
File Name 091SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 03:37:38
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 2.348 | ug/l | 3755.00 |
| Be | 9 | 45 | 1 | NO GAS | -0.010 | ug/l | 3.00 |
| B | 11 | 45 | 1 | NO GAS | 52.743 | ug/l | 11243.42 |
| Na | 23 | 45 | 3 | He | 37370.755 | ug/l | 2921767.04 |
| Mg | 24 | 45 | 3 | He | 9240.310 | ug/l | 369285.12 |
| Al | 27 | 45 | 1 | NO GAS | 36.635 | ug/l | 110034.32 |
| Si | 28 | 45 | 2 | H2 | 24863.376 | ug/l | 374867.23 |
| K | 39 | 72 | 3 | He | 1774.852 | ug/l | 72620.62 |
| Ca | 40 | 72 | 2 | H2 | 8563.865 | ug/l | 1506957.55 |
| Ti | 47 | 72 | 1 | NO GAS | 5.396 | ug/l | 4461.74 |
| V | 51 | 72 | 1 | NO GAS | -1.254 | ug/l | -22435.47 |
| V | 51 | 72 | 3 | He | 0.967 | ug/l | 1228.94 |
| Cr | 52 | 72 | 1 | NO GAS | 1.018 | ug/l | 21281.36 |
| Cr | 52 | 72 | 3 | He | 0.460 | ug/l | 901.58 |
| Cr | 53 | 72 | 1 | NO GAS | 65.841 | ug/l | 146230.79 |
| Mn | 55 | 72 | 1 | NO GAS | 511.271 | ug/l | 8856317.70 |
| Mn | 55 | 72 | 3 | He | 475.665 | ug/l | 374268.71 |
| Fe | 56 | 72 | 2 | H2 | 389.908 | ug/l | 379613.10 |
| Fe | 56 | 72 | 3 | He | 395.716 | ug/l | 618434.51 |
| Co | 59 | 72 | 1 | NO GAS | 0.543 | ug/l | 8365.59 |
| Ni | 60 | 72 | 1 | NO GAS | 1.203 | ug/l | 4158.95 |
| Ni | 60 | 72 | 3 | He | 1.159 | ug/l | 1241.17 |
| Ni | 62 | 72 | 1 | NO GAS | 1.123 | ug/l | 858.33 |
| Cu | 63 | 72 | 1 | NO GAS | 1.465 | ug/l | 13085.18 |
| Cu | 63 | 72 | 3 | He | 0.882 | ug/l | 2933.34 |
| Cu | 65 | 72 | 1 | NO GAS | 0.981 | ug/l | 4457.72 |
| Zn | 66 | 72 | 1 | NO GAS | 2.460 | ug/l | 7441.40 |
| Zn | 66 | 72 | 3 | He | 2.521 | ug/l | 1220.05 |
| As | 75 | 72 | 1 | NO GAS | 1.104 | ug/l | 6447.05 |
| As | 75 | 72 | 3 | He | 0.958 | ug/l | 279.28 |
| Se | 78 | 72 | 2 | H2 | 0.057 | ug/l | 7.33 |
| Br | 79 | 72 | 1 | NO GAS | -3.203 | ug/l | 42356.73 |
| Br | 79 | 72 | 2 | H2 | -2.965 | ug/l | 5506.72 |
| Se | 82 | 72 | 1 | NO GAS | 1.150 | ug/l | 465.11 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 24296.35 |
| Sr | 88 | 72 | 1 | NO GAS | 79.569 | ug/l | 2803775.20 |
| Sr | 88 | 72 | 3 | He | 77.492 | ug/l | 112256.01 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.735 | ug/l | 5761.06 |
| Mo | 95 | 72 | 3 | He | 0.762 | ug/l | 1921.24 |
| Mo | 98 | 72 | 1 | NO GAS | 0.749 | ug/l | 10063.16 |
| Ag | 107 | 72 | 1 | NO GAS | -0.015 | ug/l | 1379.12 |
| Ag | 109 | 72 | 1 | NO GAS | -0.013 | ug/l | 1376.45 |
| Cd | 111 | 159 | 1 | NO GAS | 0.010 | ug/l | 17.12 |
| Cd | 111 | 159 | 3 | He | 0.005 | ug/l | 7.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.021 | ug/l | 19.42 |
| Cd | 114 | 159 | 3 | He | 0.011 | ug/l | 7.34 |
| Sn | 118 | 159 | 1 | NO GAS | -2.124 | ug/l | 9963.39 |
| Sn | 118 | 159 | 3 | He | -1.950 | ug/l | 1382.30 |
| Sb | 121 | 159 | 1 | NO GAS | 0.180 | ug/l | 4677.38 |
| Sb | 121 | 159 | 3 | He | 0.167 | ug/l | 588.90 |
| Sb | 123 | 159 | 1 | NO GAS | 0.176 | ug/l | 3588.21 |
| Sb | 123 | 159 | 3 | He | 0.171 | ug/l | 493.34 |
| Ba | 135 | 159 | 1 | NO GAS | 3.610 | ug/l | 19536.75 |
| Ba | 137 | 159 | 1 | NO GAS | 3.599 | ug/l | 34402.55 |
| La | 139 | 175 | 1 | NO GAS | 0.028 | ug/l | 2686.31 |
| La | 139 | 175 | 3 | He | 0.029 | ug/l | 527.22 |
| Ce | 140 | 175 | 1 | NO GAS | 0.096 | ug/l | 8808.20 |
| Ce | 140 | 175 | 3 | He | 0.111 | ug/l | 2566.17 |
| Hg | 201 | 175 | 1 | NO GAS | 0.039 | ug/l | 203.29 |
| Hg | 202 | 175 | 1 | NO GAS | 0.502 | ug/l | 5519.24 |
| Hg | 202 | 175 | 3 | He | 0.374 | ug/l | 2601.04 |
| Tl | 203 | 175 | 3 | He | 0.043 | ug/l | 705.22 |
| Tl | 205 | 175 | 1 | NO GAS | 0.026 | ug/l | 2192.40 |
| Tl | 205 | 175 | 3 | He | 0.042 | ug/l | 1643.77 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.065 | ug/l | 1675.66 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.064 | ug/l | 1435.64 |
| Pb | 208 | 175 | 1 | NO GAS | 0.062 | ug/l | 6420.58 |
| Th | 232 | 175 | 3 | He | 0.109 | ug/l | 6472.81 |
| U | 238 | 175 | 1 | NO GAS | 0.020 | ug/l | 2407.39 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1886241.08 | 101.1 |
| Sc | 45 | 2 | H2 | 65091.56 | 78.8 |
| Sc | 45 | 3 | He | 44067.51 | 87.6 |
| Ge | 72 | 1 | NO GAS | 833917.28 | 98.6 |
| Ge | 72 | 2 | H2 | 105155.85 | 88.7 |
| Ge | 72 | 3 | He | 73165.30 | 96.9 |
| Tb | 159 | 1 | NO GAS | 20608068.18 | 112.8 |
| Tb | 159 | 3 | He | 7051778.51 | 99.9 |
| Ho | 165 | 1 | NO GAS | 19938764.31 | 117.5 |
| Ho | 165 | 3 | He | 6972774.51 | 104.6 |
| Lu | 175 | 1 | NO GAS | 21963295.23 | 115.8 |
| Lu | 175 | 3 | He | 4274225.80 | 102.7 |

ICPMS206-B Analytical Data

Sample Name B21121965-001A
File Name 092SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 03:43:22
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 2.718 | ug/l | 3573.66 |
| Be | 9 | 45 | 1 | NO GAS | -0.010 | ug/l | 3.33 |
| B | 11 | 45 | 1 | NO GAS | 161.142 | ug/l | 37551.31 |
| Na | 23 | 45 | 3 | He | 92066.444 | ug/l | 9618078.95 |
| Mg | 24 | 45 | 3 | He | 29935.705 | ug/l | 1602066.50 |
| Al | 27 | 45 | 1 | NO GAS | 8.014 | ug/l | 27096.46 |
| Si | 28 | 45 | 2 | H2 | 35779.466 | ug/l | 824382.88 |
| K | 39 | 72 | 3 | He | 3266.725 | ug/l | 165247.85 |
| Ca | 40 | 72 | 2 | H2 | 21921.988 | ug/l | 5125108.33 |
| Ti | 47 | 72 | 1 | NO GAS | 3.063 | ug/l | 2863.86 |
| V | 51 | 72 | 1 | NO GAS | 16.999 | ug/l | 226097.72 |
| V | 51 | 72 | 3 | He | 15.880 | ug/l | 23788.98 |
| Cr | 52 | 72 | 1 | NO GAS | 0.163 | ug/l | 12792.97 |
| Cr | 52 | 72 | 3 | He | 0.453 | ug/l | 1117.82 |
| Cr | 53 | 72 | 1 | NO GAS | -18.426 | ug/l | 18378.74 |
| Mn | 55 | 72 | 1 | NO GAS | 202.170 | ug/l | 3941187.57 |
| Mn | 55 | 72 | 3 | He | 190.728 | ug/l | 188603.81 |
| Fe | 56 | 72 | 2 | H2 | 446.340 | ug/l | 577056.38 |
| Fe | 56 | 72 | 3 | He | 418.872 | ug/l | 822692.67 |
| Co | 59 | 72 | 1 | NO GAS | 1.491 | ug/l | 25742.10 |
| Ni | 60 | 72 | 1 | NO GAS | 4.379 | ug/l | 16845.12 |
| Ni | 60 | 72 | 3 | He | 3.982 | ug/l | 5274.20 |
| Ni | 62 | 72 | 1 | NO GAS | 4.810 | ug/l | 3120.84 |
| Cu | 63 | 72 | 1 | NO GAS | 1.414 | ug/l | 14230.56 |
| Cu | 63 | 72 | 3 | He | 0.228 | ug/l | 1132.15 |
| Cu | 65 | 72 | 1 | NO GAS | 0.338 | ug/l | 1899.73 |
| Zn | 66 | 72 | 1 | NO GAS | 3.397 | ug/l | 11368.05 |
| Zn | 66 | 72 | 3 | He | 3.133 | ug/l | 1880.12 |
| As | 75 | 72 | 1 | NO GAS | 1.705 | ug/l | 9326.75 |
| As | 75 | 72 | 3 | He | 1.133 | ug/l | 414.59 |
| Se | 78 | 72 | 2 | H2 | 0.137 | ug/l | 19.67 |
| Br | 79 | 72 | 1 | NO GAS | 9.514 | ug/l | 138435.80 |
| Br | 79 | 72 | 2 | H2 | 9.969 | ug/l | 21404.79 |
| Se | 82 | 72 | 1 | NO GAS | 1.314 | ug/l | 578.22 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 44247.86 |
| Sr | 88 | 72 | 1 | NO GAS | 156.623 | ug/l | 6213598.43 |
| Sr | 88 | 72 | 3 | He | 149.911 | ug/l | 272657.04 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 2.919 | ug/l | 25487.61 |
| Mo | 95 | 72 | 3 | He | 2.844 | ug/l | 8883.57 |
| Mo | 98 | 72 | 1 | NO GAS | 2.906 | ug/l | 43438.69 |
| Ag | 107 | 72 | 1 | NO GAS | -0.072 | ug/l | 132.64 |
| Ag | 109 | 72 | 1 | NO GAS | -0.074 | ug/l | 83.32 |
| Cd | 111 | 159 | 1 | NO GAS | 0.003 | ug/l | -29.00 |
| Cd | 111 | 159 | 3 | He | 0.002 | ug/l | 4.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.013 | ug/l | -97.52 |
| Cd | 114 | 159 | 3 | He | 0.011 | ug/l | 7.57 |
| Sn | 118 | 159 | 1 | NO GAS | -2.573 | ug/l | 1976.23 |
| Sn | 118 | 159 | 3 | He | -2.383 | ug/l | 312.23 |
| Sb | 121 | 159 | 1 | NO GAS | 0.409 | ug/l | 9595.14 |
| Sb | 121 | 159 | 3 | He | 0.384 | ug/l | 1366.74 |
| Sb | 123 | 159 | 1 | NO GAS | 0.411 | ug/l | 7522.92 |
| Sb | 123 | 159 | 3 | He | 0.356 | ug/l | 1046.71 |
| Ba | 135 | 159 | 1 | NO GAS | 16.005 | ug/l | 80058.59 |
| Ba | 137 | 159 | 1 | NO GAS | 15.380 | ug/l | 135734.01 |
| La | 139 | 175 | 1 | NO GAS | 0.009 | ug/l | 850.90 |
| La | 139 | 175 | 3 | He | 0.012 | ug/l | 216.89 |
| Ce | 140 | 175 | 1 | NO GAS | 0.032 | ug/l | 2669.63 |
| Ce | 140 | 175 | 3 | He | 0.029 | ug/l | 717.42 |
| Hg | 201 | 175 | 1 | NO GAS | 0.048 | ug/l | 218.29 |
| Hg | 202 | 175 | 1 | NO GAS | 0.695 | ug/l | 6747.49 |
| Hg | 202 | 175 | 3 | He | 0.522 | ug/l | 3723.72 |
| Tl | 203 | 175 | 3 | He | 0.066 | ug/l | 1053.83 |
| Tl | 205 | 175 | 1 | NO GAS | 0.066 | ug/l | 4522.95 |
| Tl | 205 | 175 | 3 | He | 0.066 | ug/l | 2521.05 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.048 | ug/l | 1116.72 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.049 | ug/l | 995.60 |
| Pb | 208 | 175 | 1 | NO GAS | 0.047 | ug/l | 4344.72 |
| Th | 232 | 175 | 3 | He | 0.012 | ug/l | 1631.11 |
| U | 238 | 175 | 1 | NO GAS | 0.136 | ug/l | 13978.14 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2100113.58 | 112.5 |
| Sc | 45 | 2 | H2 | 99490.31 | 120.5 |
| Sc | 45 | 3 | He | 58975.68 | 117.2 |
| Ge | 72 | 1 | NO GAS | 940774.29 | 111.2 |
| Ge | 72 | 2 | H2 | 139651.07 | 117.8 |
| Ge | 72 | 3 | He | 91945.77 | 121.8 |
| Tb | 159 | 1 | NO GAS | 19125756.54 | 104.7 |
| Tb | 159 | 3 | He | 7353244.81 | 104.2 |
| Ho | 165 | 1 | NO GAS | 17825440.65 | 105.1 |
| Ho | 165 | 3 | He | 7144881.25 | 107.2 |
| Lu | 175 | 1 | NO GAS | 19596389.03 | 103.3 |
| Lu | 175 | 3 | He | 4402621.06 | 105.8 |

ICPMS206-B Analytical Data

Sample Name B21121965-001B
File Name 093SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 03:49:06
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 2.263 | ug/l | 3405.66 |
| Be | 9 | 45 | 1 | NO GAS | -0.001 | ug/l | 5.33 |
| B | 11 | 45 | 1 | NO GAS | 158.676 | ug/l | 32467.11 |
| Na | 23 | 45 | 3 | He | 93247.891 | ug/l | 7678786.97 |
| Mg | 24 | 45 | 3 | He | 31770.786 | ug/l | 1339041.39 |
| Al | 27 | 45 | 1 | NO GAS | 71.185 | ug/l | 206630.82 |
| Si | 28 | 45 | 2 | H2 | 34273.879 | ug/l | 552280.11 |
| K | 39 | 72 | 3 | He | 3126.158 | ug/l | 128148.15 |
| Ca | 40 | 72 | 2 | H2 | 20429.512 | ug/l | 3832823.00 |
| Ti | 47 | 72 | 1 | NO GAS | 10.766 | ug/l | 8806.34 |
| V | 51 | 72 | 1 | NO GAS | 18.373 | ug/l | 216027.04 |
| V | 51 | 72 | 3 | He | 19.187 | ug/l | 23249.35 |
| Cr | 52 | 72 | 1 | NO GAS | 1.810 | ug/l | 30197.33 |
| Cr | 52 | 72 | 3 | He | 1.329 | ug/l | 2395.45 |
| Cr | 53 | 72 | 1 | NO GAS | 65.615 | ug/l | 144729.21 |
| Mn | 55 | 72 | 1 | NO GAS | 137.720 | ug/l | 2366998.88 |
| Mn | 55 | 72 | 3 | He | 132.228 | ug/l | 105883.99 |
| Fe | 56 | 72 | 2 | H2 | 370.237 | ug/l | 384050.93 |
| Fe | 56 | 72 | 3 | He | 381.387 | ug/l | 606212.81 |
| Co | 59 | 72 | 1 | NO GAS | 1.528 | ug/l | 23230.05 |
| Ni | 60 | 72 | 1 | NO GAS | 5.339 | ug/l | 18080.67 |
| Ni | 60 | 72 | 3 | He | 5.108 | ug/l | 5469.82 |
| Ni | 62 | 72 | 1 | NO GAS | 4.927 | ug/l | 2818.01 |
| Cu | 63 | 72 | 1 | NO GAS | 2.692 | ug/l | 23463.77 |
| Cu | 63 | 72 | 3 | He | 1.370 | ug/l | 4529.37 |
| Cu | 65 | 72 | 1 | NO GAS | 1.547 | ug/l | 6838.05 |
| Zn | 66 | 72 | 1 | NO GAS | 2.763 | ug/l | 8228.36 |
| Zn | 66 | 72 | 3 | He | 2.828 | ug/l | 1381.18 |
| As | 75 | 72 | 1 | NO GAS | 0.766 | ug/l | 5372.85 |
| As | 75 | 72 | 3 | He | 0.748 | ug/l | 223.62 |
| Se | 78 | 72 | 2 | H2 | 0.191 | ug/l | 21.33 |
| Br | 79 | 72 | 1 | NO GAS | -2.818 | ug/l | 44441.70 |
| Br | 79 | 72 | 2 | H2 | -2.649 | ug/l | 6152.31 |
| Se | 82 | 72 | 1 | NO GAS | 0.105 | ug/l | 193.62 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 39952.50 |
| Sr | 88 | 72 | 1 | NO GAS | 165,100 | ug/l | 5769425.67 |
| Sr | 88 | 72 | 3 | He | 155.072 | ug/l | 228341.19 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 3.117 | ug/l | 23985.46 |
| Mo | 95 | 72 | 3 | He | 3.059 | ug/l | 7738.57 |
| Mo | 98 | 72 | 1 | NO GAS | 3.096 | ug/l | 40798.26 |
| Ag | 107 | 72 | 1 | NO GAS | -0.059 | ug/l | 398.59 |
| Ag | 109 | 72 | 1 | NO GAS | -0.057 | ug/l | 433.92 |
| Cd | 111 | 159 | 1 | NO GAS | 0.013 | ug/l | 31.58 |
| Cd | 111 | 159 | 3 | He | 0.006 | ug/l | 9.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.021 | ug/l | 8.67 |
| Cd | 114 | 159 | 3 | He | 0.012 | ug/l | 9.39 |
| Sn | 118 | 159 | 1 | NO GAS | -2.221 | ug/l | 7709.94 |
| Sn | 118 | 159 | 3 | He | -2.005 | ug/l | 1232.28 |
| Sb | 121 | 159 | 1 | NO GAS | 0.242 | ug/l | 5802.21 |
| Sb | 121 | 159 | 3 | He | 0.244 | ug/l | 840.03 |
| Sb | 123 | 159 | 1 | NO GAS | 0.241 | ug/l | 4521.78 |
| Sb | 123 | 159 | 3 | He | 0.250 | ug/l | 708.91 |
| Ba | 135 | 159 | 1 | NO GAS | 15.154 | ug/l | 76408.35 |
| Ba | 137 | 159 | 1 | NO GAS | 14.547 | ug/l | 129443.09 |
| La | 139 | 175 | 1 | NO GAS | 0.029 | ug/l | 2652.95 |
| La | 139 | 175 | 3 | He | 0.033 | ug/l | 583.94 |
| Ce | 140 | 175 | 1 | NO GAS | 0.079 | ug/l | 6871.85 |
| Ce | 140 | 175 | 3 | He | 0.082 | ug/l | 1862.02 |
| Hg | 201 | 175 | 1 | NO GAS | 0.058 | ug/l | 274.95 |
| Hg | 202 | 175 | 1 | NO GAS | 0.779 | ug/l | 8017.86 |
| Hg | 202 | 175 | 3 | He | 0.574 | ug/l | 3901.06 |
| Tl | 203 | 175 | 3 | He | 0.031 | ug/l | 519.24 |
| Tl | 205 | 175 | 1 | NO GAS | 0.021 | ug/l | 1713.45 |
| Tl | 205 | 175 | 3 | He | 0.026 | ug/l | 1093.83 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.143 | ug/l | 3385.97 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.135 | ug/l | 2809.18 |
| Pb | 208 | 175 | 1 | NO GAS | 0.138 | ug/l | 13054.53 |
| Th | 232 | 175 | 3 | He | 0.049 | ug/l | 3375.72 |
| U | 238 | 175 | 1 | NO GAS | 0.145 | ug/l | 15848.97 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1826552.14 | 97.9 |
| Sc | 45 | 2 | H2 | 69632.03 | 84.3 |
| Sc | 45 | 3 | He | 46469.24 | 92.4 |
| Ge | 72 | 1 | NO GAS | 827112.30 | 97.8 |
| Ge | 72 | 2 | H2 | 112100.95 | 94.6 |
| Ge | 72 | 3 | He | 74463.14 | 98.7 |
| Tb | 159 | 1 | NO GAS | 19206256.83 | 105.1 |
| Tb | 159 | 3 | He | 7008228.82 | 99.3 |
| Ho | 165 | 1 | NO GAS | 18344524.71 | 108.1 |
| Ho | 165 | 3 | He | 6828595.59 | 102.4 |
| Lu | 175 | 1 | NO GAS | 20678941.54 | 109.0 |
| Lu | 175 | 3 | He | 4203729.36 | 101.0 |

ICPMS206-B Analytical Data

Sample Name B21121967-001A
File Name 094SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 03:54:50
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | -0.406 | ug/l | 1708.42 |
| Be | 9 | 45 | 1 | NO GAS | -0.007 | ug/l | 4.67 |
| B | 11 | 45 | 1 | NO GAS | 210.728 | ug/l | 53748.36 |
| Na | 23 | 45 | 3 | He | 88415.498 | ug/l | 10670917.55 |
| Mg | 24 | 45 | 3 | He | 31768.216 | ug/l | 1963659.35 |
| Al | 27 | 45 | 1 | NO GAS | 8.956 | ug/l | 33135.26 |
| Si | 28 | 45 | 2 | H2 | 17568.219 | ug/l | 480879.07 |
| K | 39 | 72 | 3 | He | 2713.386 | ug/l | 149613.89 |
| Ca | 40 | 72 | 2 | H2 | 33932.152 | ug/l | 9316223.51 |
| Ti | 47 | 72 | 1 | NO GAS | 1.275 | ug/l | 1264.43 |
| V | 51 | 72 | 1 | NO GAS | 8.036 | ug/l | 107497.49 |
| V | 51 | 72 | 3 | He | 7.077 | ug/l | 11570.68 |
| Cr | 52 | 72 | 1 | NO GAS | -0.035 | ug/l | 10722.27 |
| Cr | 52 | 72 | 3 | He | 0.049 | ug/l | 292.76 |
| Cr | 53 | 72 | 1 | NO GAS | -14.988 | ug/l | 25488.39 |
| Mn | 55 | 72 | 1 | NO GAS | 344.113 | ug/l | 7022852.44 |
| Mn | 55 | 72 | 3 | He | 328.202 | ug/l | 352305.59 |
| Fe | 56 | 72 | 2 | H2 | 83.099 | ug/l | 126688.43 |
| Fe | 56 | 72 | 3 | He | 79.603 | ug/l | 170370.93 |
| Co | 59 | 72 | 1 | NO GAS | 2.019 | ug/l | 36423.99 |
| Ni | 60 | 72 | 1 | NO GAS | 11.692 | ug/l | 46922.43 |
| Ni | 60 | 72 | 3 | He | 10.837 | ug/l | 15522.81 |
| Ni | 62 | 72 | 1 | NO GAS | 11.801 | ug/l | 7560.16 |
| Cu | 63 | 72 | 1 | NO GAS | 3.324 | ug/l | 34287.41 |
| Cu | 63 | 72 | 3 | He | 2.053 | ug/l | 8969.59 |
| Cu | 65 | 72 | 1 | NO GAS | 2.266 | ug/l | 11767.78 |
| Zn | 66 | 72 | 1 | NO GAS | 18.101 | ug/l | 60861.06 |
| Zn | 66 | 72 | 3 | He | 17.448 | ug/l | 10811.33 |
| As | 75 | 72 | 1 | NO GAS | 0.921 | ug/l | 6928.34 |
| As | 75 | 72 | 3 | He | 0.438 | ug/l | 177.96 |
| Se | 78 | 72 | 2 | H2 | 2.497 | ug/l | 365.93 |
| Br | 79 | 72 | 1 | NO GAS | 38.463 | ug/l | 361260.66 |
| Br | 79 | 72 | 2 | H2 | 39.593 | ug/l | 63101.66 |
| Se | 82 | 72 | 1 | NO GAS | 5.011 | ug/l | 1716.82 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 75689.19 |
| Sr | 88 | 72 | 1 | NO GAS | 279.200 | ug/l | 11588378.44 |
| Sr | 88 | 72 | 3 | He | 268.963 | ug/l | 530810.15 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.464 | ug/l | 4311.72 |
| Mo | 95 | 72 | 3 | He | 0.437 | ug/l | 1523.42 |
| Mo | 98 | 72 | 1 | NO GAS | 0.442 | ug/l | 7062.62 |
| Ag | 107 | 72 | 1 | NO GAS | -0.075 | ug/l | 67.99 |
| Ag | 109 | 72 | 1 | NO GAS | -0.075 | ug/l | 59.99 |
| Cd | 111 | 159 | 1 | NO GAS | 0.154 | ug/l | 852.77 |
| Cd | 111 | 159 | 3 | He | 0.144 | ug/l | 221.29 |
| Cd | 114 | 159 | 1 | NO GAS | 0.162 | ug/l | 1902.98 |
| Cd | 114 | 159 | 3 | He | 0.144 | ug/l | 534.24 |
| Sn | 118 | 159 | 1 | NO GAS | -2.588 | ug/l | 1763.28 |
| Sn | 118 | 159 | 3 | He | -2.371 | ug/l | 357.78 |
| Sb | 121 | 159 | 1 | NO GAS | 0.266 | ug/l | 6433.54 |
| Sb | 121 | 159 | 3 | He | 0.286 | ug/l | 1067.82 |
| Sb | 123 | 159 | 1 | NO GAS | 0.276 | ug/l | 5219.78 |
| Sb | 123 | 159 | 3 | He | 0.263 | ug/l | 812.25 |
| Ba | 135 | 159 | 1 | NO GAS | 54.295 | ug/l | 277547.23 |
| Ba | 137 | 159 | 1 | NO GAS | 53.897 | ug/l | 486250.24 |
| La | 139 | 175 | 1 | NO GAS | 0.004 | ug/l | 380.39 |
| La | 139 | 175 | 3 | He | 0.003 | ug/l | 53.39 |
| Ce | 140 | 175 | 1 | NO GAS | 0.009 | ug/l | 847.56 |
| Ce | 140 | 175 | 3 | He | 0.009 | ug/l | 253.60 |
| Hg | 201 | 175 | 1 | NO GAS | 0.005 | ug/l | 36.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.004 | ug/l | 112.98 |
| Hg | 202 | 175 | 3 | He | 0.006 | ug/l | 72.99 |
| Tl | 203 | 175 | 3 | He | 0.038 | ug/l | 685.21 |
| Tl | 205 | 175 | 1 | NO GAS | 0.038 | ug/l | 2794.73 |
| Tl | 205 | 175 | 3 | He | 0.039 | ug/l | 1665.10 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.119 | ug/l | 2740.27 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.111 | ug/l | 2236.85 |
| Pb | 208 | 175 | 1 | NO GAS | 0.115 | ug/l | 10580.43 |
| Th | 232 | 175 | 3 | He | 0.096 | ug/l | 6274.77 |
| U | 238 | 175 | 1 | NO GAS | 0.054 | ug/l | 5803.65 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2280443.96 | 122.2 |
| Sc | 45 | 2 | H2 | 118180.12 | 143.1 |
| Sc | 45 | 3 | He | 68116.81 | 135.4 |
| Ge | 72 | 1 | NO GAS | 982240.27 | 116.1 |
| Ge | 72 | 2 | H2 | 164167.51 | 138.5 |
| Ge | 72 | 3 | He | 99818.15 | 132.2 |
| Tb | 159 | 1 | NO GAS | 19477251.77 | 106.6 |
| Tb | 159 | 3 | He | 7656897.36 | 108.5 |
| Ho | 165 | 1 | NO GAS | 18300945.30 | 107.9 |
| Ho | 165 | 3 | He | 7411174.56 | 111.2 |
| Lu | 175 | 1 | NO GAS | 19948708.21 | 105.2 |
| Lu | 175 | 3 | He | 4619351.17 | 111.0 |

ICPMS206-B Analytical Data

Sample Name B21121967-001B
File Name 095SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 04:00:34
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 0.575 | ug/l | 2276.37 |
| Be | 9 | 45 | 1 | NO GAS | -0.005 | ug/l | 5.00 |
| B | 11 | 45 | 1 | NO GAS | 213.654 | ug/l | 52174.65 |
| Na | 23 | 45 | 3 | He | 95803.213 | ug/l | 9860636.24 |
| Mg | 24 | 45 | 3 | He | 32366.437 | ug/l | 1705287.97 |
| Al | 27 | 45 | 1 | NO GAS | 315.531 | ug/l | 1092300.46 |
| Si | 28 | 45 | 2 | H2 | 16776.711 | ug/l | 379823.15 |
| K | 39 | 72 | 3 | He | 2636.526 | ug/l | 128246.42 |
| Ca | 40 | 72 | 2 | H2 | 34991.040 | ug/l | 7931841.78 |
| Ti | 47 | 72 | 1 | NO GAS | 27.958 | ug/l | 25921.93 |
| V | 51 | 72 | 1 | NO GAS | 8.255 | ug/l | 105802.58 |
| V | 51 | 72 | 3 | He | 9.736 | ug/l | 13990.31 |
| Cr | 52 | 72 | 1 | NO GAS | 3.119 | ug/l | 51332.82 |
| Cr | 52 | 72 | 3 | He | 2.324 | ug/l | 4827.82 |
| Cr | 53 | 72 | 1 | NO GAS | 82.570 | ug/l | 193791.40 |
| Mn | 55 | 72 | 1 | NO GAS | 347.774 | ug/l | 6789968.73 |
| Mn | 55 | 72 | 3 | He | 345.517 | ug/l | 326882.16 |
| Fe | 56 | 72 | 2 | H2 | 1758.335 | ug/l | 2204891.37 |
| Fe | 56 | 72 | 3 | He | 1688.739 | ug/l | 3171290.38 |
| Co | 59 | 72 | 1 | NO GAS | 2.398 | ug/l | 41332.49 |
| Ni | 60 | 72 | 1 | NO GAS | 13.910 | ug/l | 53395.55 |
| Ni | 60 | 72 | 3 | He | 12.303 | ug/l | 15531.71 |
| Ni | 62 | 72 | 1 | NO GAS | 13.782 | ug/l | 8388.86 |
| Cu | 63 | 72 | 1 | NO GAS | 8.514 | ug/l | 83137.30 |
| Cu | 63 | 72 | 3 | He | 7.111 | ug/l | 26816.21 |
| Cu | 65 | 72 | 1 | NO GAS | 7.529 | ug/l | 36775.50 |
| Zn | 66 | 72 | 1 | NO GAS | 37.942 | ug/l | 121363.92 |
| Zn | 66 | 72 | 3 | He | 37.178 | ug/l | 20181.11 |
| As | 75 | 72 | 1 | NO GAS | 1.051 | ug/l | 7062.56 |
| As | 75 | 72 | 3 | He | 0.720 | ug/l | 253.95 |
| Se | 78 | 72 | 2 | H2 | 2.240 | ug/l | 271.62 |
| Br | 79 | 72 | 1 | NO GAS | 3.708 | ug/l | 97082.91 |
| Br | 79 | 72 | 2 | H2 | 4.643 | ug/l | 15163.73 |
| Se | 82 | 72 | 1 | NO GAS | 4.130 | ug/l | 1386.74 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 75154.96 |
| Sr | 88 | 72 | 1 | NO GAS | 291.039 | ug/l | 11546652.51 |
| Sr | 88 | 72 | 3 | He | 282.168 | ug/l | 490793.52 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.513 | ug/l | 4555.68 |
| Mo | 95 | 72 | 3 | He | 0.540 | ug/l | 1646.76 |
| Mo | 98 | 72 | 1 | NO GAS | 0.509 | ug/l | 7759.62 |
| Ag | 107 | 72 | 1 | NO GAS | -0.056 | ug/l | 549.24 |
| Ag | 109 | 72 | 1 | NO GAS | -0.057 | ug/l | 501.91 |
| Cd | 111 | 159 | 1 | NO GAS | 0.248 | ug/l | 1397.03 |
| Cd | 111 | 159 | 3 | He | 0.242 | ug/l | 353.27 |
| Cd | 114 | 159 | 1 | NO GAS | 0.264 | ug/l | 3252.14 |
| Cd | 114 | 159 | 3 | He | 0.255 | ug/l | 927.40 |
| Sn | 118 | 159 | 1 | NO GAS | -1.865 | ug/l | 13648.85 |
| Sn | 118 | 159 | 3 | He | -1.702 | ug/l | 2065.70 |
| Sb | 121 | 159 | 1 | NO GAS | 0.465 | ug/l | 11107.24 |
| Sb | 121 | 159 | 3 | He | 0.462 | ug/l | 1624.54 |
| Sb | 123 | 159 | 1 | NO GAS | 0.478 | ug/l | 8899.20 |
| Sb | 123 | 159 | 3 | He | 0.446 | ug/l | 1293.40 |
| Ba | 135 | 159 | 1 | NO GAS | 57.131 | ug/l | 291285.04 |
| Ba | 137 | 159 | 1 | NO GAS | 55.182 | ug/l | 496485.67 |
| La | 139 | 175 | 1 | NO GAS | 0.146 | ug/l | 12771.49 |
| La | 139 | 175 | 3 | He | 0.153 | ug/l | 2873.20 |
| Ce | 140 | 175 | 1 | NO GAS | 0.337 | ug/l | 28755.39 |
| Ce | 140 | 175 | 3 | He | 0.328 | ug/l | 7826.63 |
| Hg | 201 | 175 | 1 | NO GAS | 0.059 | ug/l | 274.95 |
| Hg | 202 | 175 | 1 | NO GAS | 0.060 | ug/l | 683.88 |
| Hg | 202 | 175 | 3 | He | 0.062 | ug/l | 468.91 |
| Tl | 203 | 175 | 3 | He | 0.022 | ug/l | 413.26 |
| Tl | 205 | 175 | 1 | NO GAS | 0.016 | ug/l | 1386.74 |
| Tl | 205 | 175 | 3 | He | 0.021 | ug/l | 970.51 |
| [Pb] | 206 | 175 | 1 | NO GAS | 6.322 | ug/l | 145403.02 |
| [Pb] | 207 | 175 | 1 | NO GAS | 6.198 | ug/l | 125336.94 |
| Pb | 208 | 175 | 1 | NO GAS | 6.248 | ug/l | 574631.71 |
| Th | 232 | 175 | 3 | He | 0.048 | ug/l | 3519.74 |
| U | 238 | 175 | 1 | NO GAS | 0.064 | ug/l | 6978.59 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2183166.28 | 117.0 |
| Sc | 45 | 2 | H2 | 97770.66 | 118.4 |
| Sc | 45 | 3 | He | 58099.76 | 115.5 |
| Ge | 72 | 1 | NO GAS | 939320.61 | 111.0 |
| Ge | 72 | 2 | H2 | 135659.62 | 114.5 |
| Ge | 72 | 3 | He | 87987.12 | 116.6 |
| Tb | 159 | 1 | NO GAS | 19432090.57 | 106.4 |
| Tb | 159 | 3 | He | 7297635.45 | 103.4 |
| Ho | 165 | 1 | NO GAS | 17889276.56 | 105.4 |
| Ho | 165 | 3 | He | 7172005.03 | 107.6 |
| Lu | 175 | 1 | NO GAS | 20479624.32 | 108.0 |
| Lu | 175 | 3 | He | 4445678.96 | 106.8 |

ICPMS206-B Analytical Data

Sample Name B21121968-001A
File Name 096SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 04:06:18
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -0.352 | ug/l | 1795.74 |
| Be | 9 | 45 | 1 | NO GAS | -0.011 | ug/l | 4.00 |
| B | 11 | 45 | 1 | NO GAS | 54.433 | ug/l | 16910.20 |
| Na | 23 | 45 | 3 | He | 35064.485 | ug/l | 4521139.58 |
| Mg | 24 | 45 | 3 | He | 10115.897 | ug/l | 666898.79 |
| Al | 27 | 45 | 1 | NO GAS | 1.661 | ug/l | 8172.01 |
| Si | 28 | 45 | 2 | H2 | 23269.172 | ug/l | 767950.67 |
| K | 39 | 72 | 3 | He | 1989.335 | ug/l | 116465.61 |
| Ca | 40 | 72 | 2 | H2 | 9887.824 | ug/l | 2988090.87 |
| Ti | 47 | 72 | 1 | NO GAS | 1.970 | ug/l | 2097.44 |
| V | 51 | 72 | 1 | NO GAS | 22.473 | ug/l | 342277.25 |
| V | 51 | 72 | 3 | He | 20.232 | ug/l | 34604.17 |
| Cr | 52 | 72 | 1 | NO GAS | 1.746 | ug/l | 37924.16 |
| Cr | 52 | 72 | 3 | He | 1.829 | ug/l | 4581.56 |
| Cr | 53 | 72 | 1 | NO GAS | -12.638 | ug/l | 32260.05 |
| Mn | 55 | 72 | 1 | NO GAS | 0.389 | ug/l | 9503.95 |
| Mn | 55 | 72 | 3 | He | 0.402 | ug/l | 461.39 |
| Fe | 56 | 72 | 2 | H2 | 0.907 | ug/l | 2044.13 |
| Fe | 56 | 72 | 3 | He | 0.817 | ug/l | 2648.92 |
| Co | 59 | 72 | 1 | NO GAS | 0.044 | ug/l | 951.48 |
| Ni | 60 | 72 | 1 | NO GAS | 2.870 | ug/l | 12548.20 |
| Ni | 60 | 72 | 3 | He | 2.647 | ug/l | 4018.28 |
| Ni | 62 | 72 | 1 | NO GAS | 2.709 | ug/l | 2152.56 |
| Cu | 63 | 72 | 1 | NO GAS | 0.645 | ug/l | 7690.27 |
| Cu | 63 | 72 | 3 | He | 0.170 | ug/l | 1034.16 |
| Cu | 65 | 72 | 1 | NO GAS | 0.245 | ug/l | 1645.10 |
| Zn | 66 | 72 | 1 | NO GAS | 8.693 | ug/l | 32008.88 |
| Zn | 66 | 72 | 3 | He | 8.141 | ug/l | 5376.45 |
| As | 75 | 72 | 1 | NO GAS | 0.166 | ug/l | 4592.72 |
| As | 75 | 72 | 3 | He | 0.070 | ug/l | 35.66 |
| Se | 78 | 72 | 2 | H2 | 0.165 | ug/l | 29.99 |
| Br | 79 | 72 | 1 | NO GAS | 7.469 | ug/l | 140552.81 |
| Br | 79 | 72 | 2 | H2 | 7.747 | ug/l | 24532.98 |
| Se | 82 | 72 | 1 | NO GAS | 0.936 | ug/l | 525.01 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 24976.22 |
| Sr | 88 | 72 | 1 | NO GAS | 66.263 | ug/l | 2981161.87 |
| Sr | 88 | 72 | 3 | He | 63.500 | ug/l | 132179.28 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.239 | ug/l | 2460.21 |
| Mo | 95 | 72 | 3 | He | 0.224 | ug/l | 846.70 |
| Mo | 98 | 72 | 1 | NO GAS | 0.237 | ug/l | 4198.00 |
| Ag | 107 | 72 | 1 | NO GAS | -0.075 | ug/l | 68.65 |
| Ag | 109 | 72 | 1 | NO GAS | -0.075 | ug/l | 63.99 |
| Cd | 111 | 159 | 1 | NO GAS | 0.006 | ug/l | -8.66 |
| Cd | 111 | 159 | 3 | He | 0.003 | ug/l | 6.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.019 | ug/l | -10.02 |
| Cd | 114 | 159 | 3 | He | 0.009 | ug/l | -0.15 |
| Sn | 118 | 159 | 1 | NO GAS | -2.098 | ug/l | 10209.81 |
| Sn | 118 | 159 | 3 | He | -1.925 | ug/l | 1610.09 |
| Sb | 121 | 159 | 1 | NO GAS | 0.005 | ug/l | 312.23 |
| Sb | 121 | 159 | 3 | He | 0.007 | ug/l | 63.34 |
| Sb | 123 | 159 | 1 | NO GAS | 0.006 | ug/l | 290.00 |
| Sb | 123 | 159 | 3 | He | 0.005 | ug/l | 42.22 |
| Ba | 135 | 159 | 1 | NO GAS | 3.130 | ug/l | 16622.52 |
| Ba | 137 | 159 | 1 | NO GAS | 3.086 | ug/l | 28945.70 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 93.43 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 10.01 |
| Ce | 140 | 175 | 1 | NO GAS | 0.000 | ug/l | 83.42 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 36.70 |
| Hg | 201 | 175 | 1 | NO GAS | 0.002 | ug/l | 24.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.001 | ug/l | 85.98 |
| Hg | 202 | 175 | 3 | He | 0.004 | ug/l | 56.99 |
| Tl | 203 | 175 | 3 | He | 0.033 | ug/l | 619.89 |
| Tl | 205 | 175 | 1 | NO GAS | 0.029 | ug/l | 2295.75 |
| Tl | 205 | 175 | 3 | He | 0.035 | ug/l | 1545.11 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.006 | ug/l | 214.45 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.006 | ug/l | 168.89 |
| Pb | 208 | 175 | 1 | NO GAS | 0.006 | ug/l | 774.46 |
| Th | 232 | 175 | 3 | He | -0.010 | ug/l | 523.91 |
| U | 238 | 175 | 1 | NO GAS | 0.008 | ug/l | 980.84 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2747430.39 | 147.2 |
| Sc | 45 | 2 | H2 | 142431.37 | 172.5 |
| Sc | 45 | 3 | He | 72661.40 | 144.4 |
| Ge | 72 | 1 | NO GAS | 1064767.60 | 125.9 |
| Ge | 72 | 2 | H2 | 180533.75 | 152.3 |
| Ge | 72 | 3 | He | 105090.24 | 139.2 |
| Tb | 159 | 1 | NO GAS | 20217387.51 | 110.7 |
| Tb | 159 | 3 | He | 7866913.51 | 111.5 |
| Ho | 165 | 1 | NO GAS | 18852106.03 | 111.1 |
| Ho | 165 | 3 | He | 7621929.11 | 114.3 |
| Lu | 175 | 1 | NO GAS | 20633904.43 | 108.8 |
| Lu | 175 | 3 | He | 4686448.42 | 112.6 |

ICPMS206-B Analytical Data

Sample Name B21121968-001B
File Name 097SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 04:12:02
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 0.445 | ug/l | 2311.03 |
| Be | 9 | 45 | 1 | NO GAS | -0.014 | ug/l | 2.00 |
| B | 11 | 45 | 1 | NO GAS | 52.989 | ug/l | 13071.00 |
| Na | 23 | 45 | 3 | He | 35098.027 | ug/l | 3400722.66 |
| Mg | 24 | 45 | 3 | He | 10234.378 | ug/l | 507211.34 |
| Al | 27 | 45 | 1 | NO GAS | 3.726 | ug/l | 13607.70 |
| Si | 28 | 45 | 2 | H2 | 22134.067 | ug/l | 467069.98 |
| K | 39 | 72 | 3 | He | 1845.398 | ug/l | 84858.89 |
| Ca | 40 | 72 | 2 | H2 | 8660.911 | ug/l | 1902432.53 |
| Ti | 47 | 72 | 1 | NO GAS | 2.335 | ug/l | 2102.44 |
| V | 51 | 72 | 1 | NO GAS | 21.775 | ug/l | 280799.09 |
| V | 51 | 72 | 3 | He | 20.786 | ug/l | 27852.98 |
| Cr | 52 | 72 | 1 | NO GAS | 3.719 | ug/l | 56792.83 |
| Cr | 52 | 72 | 3 | He | 3.014 | ug/l | 5816.21 |
| Cr | 53 | 72 | 1 | NO GAS | 74.894 | ug/l | 173110.91 |
| Mn | 55 | 72 | 1 | NO GAS | 0.675 | ug/l | 13395.54 |
| Mn | 55 | 72 | 3 | He | 0.550 | ug/l | 492.06 |
| Fe | 56 | 72 | 2 | H2 | 8.254 | ug/l | 10398.13 |
| Fe | 56 | 72 | 3 | He | 8.333 | ug/l | 15284.45 |
| Co | 59 | 72 | 1 | NO GAS | 0.054 | ug/l | 974.77 |
| Ni | 60 | 72 | 1 | NO GAS | 3.753 | ug/l | 13871.67 |
| Ni | 60 | 72 | 3 | He | 3.308 | ug/l | 3928.26 |
| Ni | 62 | 72 | 1 | NO GAS | 3.730 | ug/l | 2398.77 |
| Cu | 63 | 72 | 1 | NO GAS | 0.717 | ug/l | 7175.46 |
| Cu | 63 | 72 | 3 | He | 0.173 | ug/l | 822.52 |
| Cu | 65 | 72 | 1 | NO GAS | 0.279 | ug/l | 1555.10 |
| Zn | 66 | 72 | 1 | NO GAS | 8.895 | ug/l | 27719.35 |
| Zn | 66 | 72 | 3 | He | 8.699 | ug/l | 4495.08 |
| As | 75 | 72 | 1 | NO GAS | 0.419 | ug/l | 4747.13 |
| As | 75 | 72 | 3 | He | 0.086 | ug/l | 32.99 |
| Se | 78 | 72 | 2 | H2 | 0.144 | ug/l | 19.33 |
| Br | 79 | 72 | 1 | NO GAS | -3.497 | ug/l | 43754.47 |
| Br | 79 | 72 | 2 | H2 | -3.386 | ug/l | 6451.89 |
| Se | 82 | 72 | 1 | NO GAS | 0.249 | ug/l | 250.85 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 23173.68 |
| Sr | 88 | 72 | 1 | NO GAS | 72.733 | ug/l | 2770739.24 |
| Sr | 88 | 72 | 3 | He | 68.053 | ug/l | 111001.38 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.434 | ug/l | 3707.11 |
| Mo | 95 | 72 | 3 | He | 0.398 | ug/l | 1147.83 |
| Mo | 98 | 72 | 1 | NO GAS | 0.414 | ug/l | 6085.14 |
| Ag | 107 | 72 | 1 | NO GAS | -0.067 | ug/l | 253.95 |
| Ag | 109 | 72 | 1 | NO GAS | -0.069 | ug/l | 198.63 |
| Cd | 111 | 159 | 1 | NO GAS | 0.007 | ug/l | -0.97 |
| Cd | 111 | 159 | 3 | He | 0.001 | ug/l | 2.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.025 | ug/l | 66.70 |
| Cd | 114 | 159 | 3 | He | 0.010 | ug/l | 3.22 |
| Sn | 118 | 159 | 1 | NO GAS | -2.104 | ug/l | 10033.28 |
| Sn | 118 | 159 | 3 | He | -1.879 | ug/l | 1633.43 |
| Sb | 121 | 159 | 1 | NO GAS | 0.023 | ug/l | 736.69 |
| Sb | 121 | 159 | 3 | He | 0.023 | ug/l | 115.55 |
| Sb | 123 | 159 | 1 | NO GAS | 0.024 | ug/l | 620.02 |
| Sb | 123 | 159 | 3 | He | 0.034 | ug/l | 121.11 |
| Ba | 135 | 159 | 1 | NO GAS | 3.335 | ug/l | 17585.05 |
| Ba | 137 | 159 | 1 | NO GAS | 3.137 | ug/l | 29192.50 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 86.75 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 46.71 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 176.85 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 50.05 |
| Hg | 201 | 175 | 1 | NO GAS | 0.004 | ug/l | 34.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.008 | ug/l | 163.97 |
| Hg | 202 | 175 | 3 | He | 0.008 | ug/l | 85.98 |
| Tl | 203 | 175 | 3 | He | 0.014 | ug/l | 297.95 |
| Tl | 205 | 175 | 1 | NO GAS | 0.009 | ug/l | 960.04 |
| Tl | 205 | 175 | 3 | He | 0.014 | ug/l | 735.21 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.010 | ug/l | 295.56 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.011 | ug/l | 270.00 |
| Pb | 208 | 175 | 1 | NO GAS | 0.010 | ug/l | 1178.92 |
| Th | 232 | 175 | 3 | He | 0.017 | ug/l | 1946.41 |
| U | 238 | 175 | 1 | NO GAS | 0.008 | ug/l | 975.84 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2186240.99 | 117.2 |
| Sc | 45 | 2 | H2 | 91115.51 | 110.3 |
| Sc | 45 | 3 | He | 54613.10 | 108.6 |
| Ge | 72 | 1 | NO GAS | 901765.46 | 106.6 |
| Ge | 72 | 2 | H2 | 131212.94 | 110.7 |
| Ge | 72 | 3 | He | 82342.19 | 109.1 |
| Tb | 159 | 1 | NO GAS | 20077642.35 | 109.9 |
| Tb | 159 | 3 | He | 7396553.90 | 104.8 |
| Ho | 165 | 1 | NO GAS | 18817867.41 | 110.9 |
| Ho | 165 | 3 | He | 7332336.25 | 110.0 |
| Lu | 175 | 1 | NO GAS | 20747930.12 | 109.4 |
| Lu | 175 | 3 | He | 4462722.98 | 107.2 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 098_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 04:17:46
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 478.110 | ug/l | 311822.79 |
| Be | 9 | 45 | 1 | NO GAS | 45.706 | ug/l | 14409.71 |
| B | 11 | 45 | 1 | NO GAS | 45.671 | ug/l | 10831.90 |
| Na | 23 | 45 | 3 | He | 11258.092 | ug/l | 1181175.47 |
| Mg | 24 | 45 | 3 | He | 11123.489 | ug/l | 593868.98 |
| Al | 27 | 45 | 1 | NO GAS | 45.997 | ug/l | 153231.32 |
| Si | 28 | 45 | 2 | H2 | 255.880 | ug/l | 5821.85 |
| K | 39 | 72 | 3 | He | 10955.829 | ug/l | 540762.72 |
| Ca | 40 | 72 | 2 | H2 | 12163.748 | ug/l | 2838904.24 |
| Ti | 47 | 72 | 1 | NO GAS | 46.930 | ug/l | 44087.03 |
| V | 51 | 72 | 1 | NO GAS | 46.094 | ug/l | 636118.07 |
| V | 51 | 72 | 3 | He | 47.804 | ug/l | 70668.02 |
| Cr | 52 | 72 | 1 | NO GAS | 48.899 | ug/l | 656552.49 |
| Cr | 52 | 72 | 3 | He | 46.150 | ug/l | 96051.12 |
| Cr | 53 | 72 | 1 | NO GAS | 81.805 | ug/l | 195056.68 |
| Mn | 55 | 72 | 1 | NO GAS | 48.992 | ug/l | 969726.12 |
| Mn | 55 | 72 | 3 | He | 46.876 | ug/l | 45884.97 |
| Fe | 56 | 72 | 2 | H2 | 1200.598 | ug/l | 1549232.99 |
| Fe | 56 | 72 | 3 | He | 1112.745 | ug/l | 2160518.08 |
| Co | 59 | 72 | 1 | NO GAS | 49.150 | ug/l | 857405.83 |
| Ni | 60 | 72 | 1 | NO GAS | 49.234 | ug/l | 191293.32 |
| Ni | 60 | 72 | 3 | He | 46.841 | ug/l | 61059.14 |
| Ni | 62 | 72 | 1 | NO GAS | 48.087 | ug/l | 28887.66 |
| Cu | 63 | 72 | 1 | NO GAS | 49.466 | ug/l | 487073.40 |
| Cu | 63 | 72 | 3 | He | 45.972 | ug/l | 178011.36 |
| Cu | 65 | 72 | 1 | NO GAS | 48.334 | ug/l | 237815.32 |
| Zn | 66 | 72 | 1 | NO GAS | 46.847 | ug/l | 151748.85 |
| Zn | 66 | 72 | 3 | He | 47.218 | ug/l | 26478.74 |
| As | 75 | 72 | 1 | NO GAS | 48.487 | ug/l | 171527.95 |
| As | 75 | 72 | 3 | He | 47.790 | ug/l | 17047.60 |
| Se | 78 | 72 | 2 | H2 | 50.639 | ug/l | 6252.60 |
| Br | 79 | 72 | 1 | NO GAS | 0.710 | ug/l | 76688.25 |
| Br | 79 | 72 | 2 | H2 | 1.250 | ug/l | 11890.85 |
| Se | 82 | 72 | 1 | NO GAS | 49.075 | ug/l | 14630.12 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 19999.27 |
| Sr | 88 | 72 | 1 | NO GAS | 51.169 | ug/l | 2058211.26 |
| Sr | 88 | 72 | 3 | He | 47.345 | ug/l | 85386.36 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 48.789 | ug/l | 430852.73 |
| Mo | 95 | 72 | 3 | He | 46.403 | ug/l | 142879.33 |
| Mo | 98 | 72 | 1 | NO GAS | 48.408 | ug/l | 731522.27 |
| Ag | 107 | 72 | 1 | NO GAS | 19.929 | ug/l | 497338.30 |
| Ag | 109 | 72 | 1 | NO GAS | 19.722 | ug/l | 484587.37 |
| Cd | 111 | 159 | 1 | NO GAS | 48.419 | ug/l | 291390.10 |
| Cd | 111 | 159 | 3 | He | 47.850 | ug/l | 72140.94 |
| Cd | 114 | 159 | 1 | NO GAS | 49.453 | ug/l | 681054.16 |
| Cd | 114 | 159 | 3 | He | 47.115 | ug/l | 184212.99 |
| Sn | 118 | 159 | 1 | NO GAS | 48.993 | ug/l | 880844.39 |
| Sn | 118 | 159 | 3 | He | 48.093 | ug/l | 135397.88 |
| Sb | 121 | 159 | 1 | NO GAS | 49.521 | ug/l | 1205177.87 |
| Sb | 121 | 159 | 3 | He | 48.450 | ug/l | 172522.25 |
| Sb | 123 | 159 | 1 | NO GAS | 49.016 | ug/l | 928192.12 |
| Sb | 123 | 159 | 3 | He | 48.317 | ug/l | 142407.01 |
| Ba | 135 | 159 | 1 | NO GAS | 49.827 | ug/l | 263077.85 |
| Ba | 137 | 159 | 1 | NO GAS | 47.838 | ug/l | 445694.41 |
| La | 139 | 175 | 1 | NO GAS | 48.173 | ug/l | 4231187.65 |
| La | 139 | 175 | 3 | He | 48.926 | ug/l | 934756.70 |
| Ce | 140 | 175 | 1 | NO GAS | 48.107 | ug/l | 4142326.19 |
| Ce | 140 | 175 | 3 | He | 48.632 | ug/l | 1180963.00 |
| Hg | 201 | 175 | 1 | NO GAS | 0.925 | ug/l | 4190.75 |
| Hg | 202 | 175 | 1 | NO GAS | 0.934 | ug/l | 9611.46 |
| Hg | 202 | 175 | 3 | He | 0.939 | ug/l | 6863.85 |
| Tl | 203 | 175 | 3 | He | 48.101 | ug/l | 719578.07 |
| Tl | 205 | 175 | 1 | NO GAS | 48.501 | ug/l | 3267245.68 |
| Tl | 205 | 175 | 3 | He | 48.746 | ug/l | 1728744.28 |
| [Pb] | 206 | 175 | 1 | NO GAS | 46.927 | ug/l | 1092033.18 |
| [Pb] | 207 | 175 | 1 | NO GAS | 46.849 | ug/l | 959202.11 |
| Pb | 208 | 175 | 1 | NO GAS | 47.535 | ug/l | 4426066.33 |
| Th | 232 | 175 | 3 | He | 48.530 | ug/l | 2592957.32 |
| U | 238 | 175 | 1 | NO GAS | 45.377 | ug/l | 4910978.68 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2093528.10 | 112.2 |
| Sc | 45 | 2 | H2 | 97828.69 | 118.4 |
| Sc | 45 | 3 | He | 58824.94 | 116.9 |
| Ge | 72 | 1 | NO GAS | 951833.32 | 112.5 |
| Ge | 72 | 2 | H2 | 139468.14 | 117.7 |
| Ge | 72 | 3 | He | 91006.49 | 120.6 |
| Tb | 159 | 1 | NO GAS | 20118108.23 | 110.1 |
| Tb | 159 | 3 | He | 7550012.14 | 107.0 |
| Ho | 165 | 1 | NO GAS | 18742431.77 | 110.5 |
| Ho | 165 | 3 | He | 7387526.33 | 110.8 |
| Lu | 175 | 1 | NO GAS | 20705100.83 | 109.2 |
| Lu | 175 | 3 | He | 4527711.35 | 108.8 |

ICPMS206-B Analytical Data

Sample Name CCB
File Name 099_CCB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 04:23:28
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 026CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.900 | ug/l | 2655.68 |
| Be | 9 | 45 | 1 | NO GAS | -0.013 | ug/l | 2.33 |
| B | 11 | 45 | 1 | NO GAS | 0.794 | ug/l | 375.26 |
| Na | 23 | 45 | 3 | He | 27.971 | ug/l | 10402.05 |
| Mg | 24 | 45 | 3 | He | 0.823 | ug/l | 56.55 |
| Al | 27 | 45 | 1 | NO GAS | -0.031 | ug/l | 623.35 |
| Si | 28 | 45 | 2 | H2 | 64.286 | ug/l | 1416.45 |
| K | 39 | 72 | 3 | He | -6.594 | ug/l | 2814.70 |
| Ca | 40 | 72 | 2 | H2 | 0.173 | ug/l | 683.01 |
| Ti | 47 | 72 | 1 | NO GAS | 0.035 | ug/l | 58.31 |
| V | 51 | 72 | 1 | NO GAS | -0.452 | ug/l | -14410.01 |
| V | 51 | 72 | 3 | He | 0.140 | ug/l | 296.67 |
| Cr | 52 | 72 | 1 | NO GAS | 0.353 | ug/l | 15306.71 |
| Cr | 52 | 72 | 3 | He | -0.024 | ug/l | 109.78 |
| Cr | 53 | 72 | 1 | NO GAS | 44.366 | ug/l | 127450.94 |
| Mn | 55 | 72 | 1 | NO GAS | 0.019 | ug/l | 1157.75 |
| Mn | 55 | 72 | 3 | He | 0.001 | ug/l | 6.67 |
| Fe | 56 | 72 | 2 | H2 | -0.058 | ug/l | 323.18 |
| Fe | 56 | 72 | 3 | He | -0.080 | ug/l | 536.41 |
| Co | 59 | 72 | 1 | NO GAS | 0.000 | ug/l | 76.51 |
| Ni | 60 | 72 | 1 | NO GAS | -0.008 | ug/l | 39.92 |
| Ni | 60 | 72 | 3 | He | -0.016 | ug/l | 12.22 |
| Ni | 62 | 72 | 1 | NO GAS | 0.198 | ug/l | 425.83 |
| Cu | 63 | 72 | 1 | NO GAS | -0.003 | ug/l | 494.58 |
| Cu | 63 | 72 | 3 | He | -0.013 | ug/l | 183.96 |
| Cu | 65 | 72 | 1 | NO GAS | -0.003 | ug/l | 249.29 |
| Zn | 66 | 72 | 1 | NO GAS | -0.050 | ug/l | 385.63 |
| Zn | 66 | 72 | 3 | He | -0.103 | ug/l | 51.11 |
| As | 75 | 72 | 1 | NO GAS | 0.258 | ug/l | 4366.68 |
| As | 75 | 72 | 3 | He | -0.005 | ug/l | 4.00 |
| Se | 78 | 72 | 2 | H2 | 0.020 | ug/l | 5.00 |
| Br | 79 | 72 | 1 | NO GAS | 0.200 | ug/l | 72016.42 |
| Br | 79 | 72 | 2 | H2 | 1.021 | ug/l | 11261.58 |
| Se | 82 | 72 | 1 | NO GAS | 0.803 | ug/l | 423.19 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8189.18 |
| Sr | 88 | 72 | 1 | NO GAS | 0.002 | ug/l | 462.43 |
| Sr | 88 | 72 | 3 | He | -0.020 | ug/l | 246.67 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.006 | ug/l | 136.67 |
| Mo | 95 | 72 | 3 | He | 0.009 | ug/l | 70.00 |
| Mo | 98 | 72 | 1 | NO GAS | 0.002 | ug/l | 203.83 |
| Ag | 107 | 72 | 1 | NO GAS | 0.000 | ug/l | 1909.07 |
| Ag | 109 | 72 | 1 | NO GAS | -0.001 | ug/l | 1856.41 |
| Cd | 111 | 159 | 1 | NO GAS | 0.016 | ug/l | 50.25 |
| Cd | 111 | 159 | 3 | He | 0.001 | ug/l | 2.67 |
| Cd | 114 | 159 | 1 | NO GAS | -0.002 | ug/l | -296.76 |
| Cd | 114 | 159 | 3 | He | 0.002 | ug/l | -29.34 |
| Sn | 118 | 159 | 1 | NO GAS | 0.075 | ug/l | 46905.63 |
| Sn | 118 | 159 | 3 | He | 0.188 | ug/l | 7282.81 |
| Sb | 121 | 159 | 1 | NO GAS | 0.051 | ug/l | 1414.52 |
| Sb | 121 | 159 | 3 | He | 0.041 | ug/l | 185.56 |
| Sb | 123 | 159 | 1 | NO GAS | 0.053 | ug/l | 1171.16 |
| Sb | 123 | 159 | 3 | He | 0.048 | ug/l | 167.78 |
| Ba | 135 | 159 | 1 | NO GAS | 0.005 | ug/l | 39.92 |
| Ba | 137 | 159 | 1 | NO GAS | 0.000 | ug/l | 46.57 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 53.39 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 10.01 |
| Ce | 140 | 175 | 1 | NO GAS | 0.000 | ug/l | 106.77 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 53.39 |
| Hg | 201 | 175 | 1 | NO GAS | 0.006 | ug/l | 42.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.004 | ug/l | 115.64 |
| Hg | 202 | 175 | 3 | He | 0.003 | ug/l | 47.99 |
| Tl | 203 | 175 | 3 | He | 0.028 | ug/l | 499.91 |
| Tl | 205 | 175 | 1 | NO GAS | 0.025 | ug/l | 1969.04 |
| Tl | 205 | 175 | 3 | He | 0.029 | ug/l | 1229.81 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.000 | ug/l | 68.89 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.001 | ug/l | 76.67 |
| Pb | 208 | 175 | 1 | NO GAS | 0.001 | ug/l | 313.34 |
| Th | 232 | 175 | 3 | He | 0.035 | ug/l | 2810.39 |
| U | 238 | 175 | 1 | NO GAS | 0.003 | ug/l | 472.91 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2132400.54 | 114.3 |
| Sc | 45 | 2 | H2 | 93655.85 | 113.4 |
| Sc | 45 | 3 | He | 55839.41 | 111.0 |
| Ge | 72 | 1 | NO GAS | 939196.60 | 111.0 |
| Ge | 72 | 2 | H2 | 135050.58 | 114.0 |
| Ge | 72 | 3 | He | 88483.38 | 117.2 |
| Tb | 159 | 1 | NO GAS | 20002551.43 | 109.5 |
| Tb | 159 | 3 | He | 7637602.86 | 108.2 |
| Ho | 165 | 1 | NO GAS | 19176062.05 | 113.0 |
| Ho | 165 | 3 | He | 7248520.45 | 108.7 |
| Lu | 175 | 1 | NO GAS | 20353483.81 | 107.3 |
| Lu | 175 | 3 | He | 4390424.38 | 105.5 |

ICPMS206-B Analytical Data

Sample Name BLANK
File Name 100CALB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 04:29:16
Sample Type CalBlk
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.000 | ug/l | 2535.02 |
| Be | 9 | 45 | 1 | NO GAS | 0.000 | ug/l | 2.00 |
| B | 11 | 45 | 1 | NO GAS | 0.000 | ug/l | 307.27 |
| Na | 23 | 45 | 3 | He | 0.000 | ug/l | 9282.53 |
| Mg | 24 | 45 | 3 | He | 0.000 | ug/l | 73.19 |
| Al | 27 | 45 | 1 | NO GAS | 0.000 | ug/l | 553.35 |
| Si | 28 | 45 | 2 | H2 | 0.000 | ug/l | 1120.49 |
| K | 39 | 72 | 3 | He | 0.000 | ug/l | 2821.37 |
| Ca | 40 | 72 | 2 | H2 | 0.000 | ug/l | 551.41 |
| Ti | 47 | 72 | 1 | NO GAS | 0.000 | ug/l | 38.32 |
| V | 51 | 72 | 1 | NO GAS | 0.000 | ug/l | -23371.87 |
| V | 51 | 72 | 3 | He | 0.000 | ug/l | 317.78 |
| Cr | 52 | 72 | 1 | NO GAS | 0.000 | ug/l | 15070.33 |
| Cr | 52 | 72 | 3 | He | 0.000 | ug/l | 133.07 |
| Cr | 53 | 72 | 1 | NO GAS | 0.000 | ug/l | 126167.55 |
| Mn | 55 | 72 | 1 | NO GAS | 0.000 | ug/l | 1061.27 |
| Mn | 55 | 72 | 3 | He | 0.000 | ug/l | 9.33 |
| Fe | 56 | 72 | 2 | H2 | 0.000 | ug/l | 298.19 |
| Fe | 56 | 72 | 3 | He | 0.000 | ug/l | 546.41 |
| Co | 59 | 72 | 1 | NO GAS | 0.000 | ug/l | 59.88 |
| Ni | 60 | 72 | 1 | NO GAS | 0.000 | ug/l | 16.63 |
| Ni | 60 | 72 | 3 | He | 0.000 | ug/l | 32.22 |
| Ni | 62 | 72 | 1 | NO GAS | 0.000 | ug/l | 392.57 |
| Cu | 63 | 72 | 1 | NO GAS | 0.000 | ug/l | 467.25 |
| Cu | 63 | 72 | 3 | He | 0.000 | ug/l | 183.97 |
| Cu | 65 | 72 | 1 | NO GAS | 0.000 | ug/l | 235.96 |
| Zn | 66 | 72 | 1 | NO GAS | 0.000 | ug/l | 325.76 |
| Zn | 66 | 72 | 3 | He | 0.000 | ug/l | 57.78 |
| As | 75 | 72 | 1 | NO GAS | 0.000 | ug/l | 3634.94 |
| As | 75 | 72 | 3 | He | 0.000 | ug/l | 6.33 |
| Se | 78 | 72 | 2 | H2 | 0.000 | ug/l | 3.33 |
| Br | 79 | 72 | 1 | NO GAS | 0.000 | ug/l | 71221.84 |
| Br | 79 | 72 | 2 | H2 | 0.000 | ug/l | 10286.23 |
| Se | 82 | 72 | 1 | NO GAS | 0.000 | ug/l | 170.34 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8129.26 |
| Sr | 88 | 72 | 1 | NO GAS | 0.000 | ug/l | 385.91 |
| Sr | 88 | 72 | 3 | He | 0.000 | ug/l | 223.34 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.000 | ug/l | 87.78 |
| Mo | 95 | 72 | 3 | He | 0.000 | ug/l | 38.89 |
| Mo | 98 | 72 | 1 | NO GAS | 0.000 | ug/l | 153.83 |
| Ag | 107 | 72 | 1 | NO GAS | 0.000 | ug/l | 1838.41 |
| Ag | 109 | 72 | 1 | NO GAS | 0.000 | ug/l | 1730.42 |
| Cd | 111 | 159 | 1 | NO GAS | 0.000 | ug/l | 12.97 |
| Cd | 111 | 159 | 3 | He | 0.000 | ug/l | 3.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.000 | ug/l | -217.98 |
| Cd | 114 | 159 | 3 | He | 0.000 | ug/l | -26.96 |
| Sn | 118 | 159 | 1 | NO GAS | 0.000 | ug/l | 46101.39 |
| Sn | 118 | 159 | 3 | He | 0.000 | ug/l | 7071.60 |
| Sb | 121 | 159 | 1 | NO GAS | 0.000 | ug/l | 571.13 |
| Sb | 121 | 159 | 3 | He | 0.000 | ug/l | 74.45 |
| Sb | 123 | 159 | 1 | NO GAS | 0.000 | ug/l | 446.67 |
| Sb | 123 | 159 | 3 | He | 0.000 | ug/l | 48.89 |
| Ba | 135 | 159 | 1 | NO GAS | 0.000 | ug/l | 23.29 |
| Ba | 137 | 159 | 1 | NO GAS | 0.000 | ug/l | 43.25 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 70.07 |
| La | 139 | 175 | 3 | He | 0.000 | ug/l | 10.01 |
| Ce | 140 | 175 | 1 | NO GAS | 0.000 | ug/l | 60.06 |
| Ce | 140 | 175 | 3 | He | 0.000 | ug/l | 13.35 |
| Hg | 201 | 175 | 1 | NO GAS | 0.000 | ug/l | 21.67 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 79.32 |
| Hg | 202 | 175 | 3 | He | 0.000 | ug/l | 36.66 |
| Tl | 203 | 175 | 3 | He | 0.000 | ug/l | 391.26 |
| Tl | 205 | 175 | 1 | NO GAS | 0.000 | ug/l | 1693.44 |
| Tl | 205 | 175 | 3 | He | 0.000 | ug/l | 994.51 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.000 | ug/l | 65.56 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.000 | ug/l | 58.89 |
| Pb | 208 | 175 | 1 | NO GAS | 0.000 | ug/l | 251.11 |
| Th | 232 | 175 | 3 | He | 0.000 | ug/l | 1375.13 |
| U | 238 | 175 | 1 | NO GAS | 0.000 | ug/l | 182.63 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2081740.17 | 100.0 |
| Sc | 45 | 2 | H2 | 90811.41 | 100.0 |
| Sc | 45 | 3 | He | 54923.83 | 100.0 |
| Ge | 72 | 1 | NO GAS | 895833.15 | 100.0 |
| Ge | 72 | 2 | H2 | 129474.72 | 100.0 |
| Ge | 72 | 3 | He | 84293.88 | 100.0 |
| Tb | 159 | 1 | NO GAS | 20122691.15 | 100.0 |
| Tb | 159 | 3 | He | 7346789.03 | 100.0 |
| Ho | 165 | 1 | NO GAS | 18771236.20 | 100.0 |
| Ho | 165 | 3 | He | 7241593.42 | 100.0 |
| Lu | 175 | 1 | NO GAS | 20014819.53 | 100.0 |
| Lu | 175 | 3 | He | 4411221.64 | 100.0 |

ICPMS206-B Analytical Data

Sample Name 0.025 PPB STD
File Name 101CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 04:35:07
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.359 | ug/l | 2757.01 |
| Be | 9 | 45 | 1 | NO GAS | 0.034 | ug/l | 11.67 |
| B | 11 | 45 | 1 | NO GAS | -0.200 | ug/l | 260.62 |
| Na | 23 | 45 | 3 | He | -1.795 | ug/l | 9090.22 |
| Mg | 24 | 45 | 3 | He | 4.452 | ug/l | 282.78 |
| Al | 27 | 45 | 1 | NO GAS | 0.076 | ug/l | 776.69 |
| Si | 28 | 45 | 2 | H2 | -16.094 | ug/l | 877.18 |
| K | 39 | 72 | 3 | He | 4.117 | ug/l | 3086.97 |
| Ca | 40 | 72 | 2 | H2 | 6.850 | ug/l | 1945.82 |
| Ti | 47 | 72 | 1 | NO GAS | 0.023 | ug/l | 59.97 |
| V | 51 | 72 | 1 | NO GAS | 1.308 | ug/l | -5059.91 |
| V | 51 | 72 | 3 | He | 0.049 | ug/l | 393.34 |
| Cr | 52 | 72 | 1 | NO GAS | -0.004 | ug/l | 15359.99 |
| Cr | 52 | 72 | 3 | He | 0.000 | ug/l | 136.39 |
| Cr | 53 | 72 | 1 | NO GAS | -1.459 | ug/l | 127460.79 |
| Mn | 55 | 72 | 1 | NO GAS | 0.017 | ug/l | 1417.27 |
| Mn | 55 | 72 | 3 | He | 0.021 | ug/l | 28.33 |
| Fe | 56 | 72 | 2 | H2 | 0.545 | ug/l | 932.91 |
| Fe | 56 | 72 | 3 | He | 0.577 | ug/l | 1509.33 |
| Co | 59 | 72 | 1 | NO GAS | 0.024 | ug/l | 472.41 |
| Ni | 60 | 72 | 1 | NO GAS | 0.033 | ug/l | 139.72 |
| Ni | 60 | 72 | 3 | He | 0.008 | ug/l | 42.22 |
| Ni | 62 | 72 | 1 | NO GAS | -0.044 | ug/l | 375.93 |
| Cu | 63 | 72 | 1 | NO GAS | 0.009 | ug/l | 559.90 |
| Cu | 63 | 72 | 3 | He | 0.000 | ug/l | 188.96 |
| Cu | 65 | 72 | 1 | NO GAS | -0.003 | ug/l | 229.29 |
| Zn | 66 | 72 | 1 | NO GAS | -0.018 | ug/l | 275.77 |
| Zn | 66 | 72 | 3 | He | 0.028 | ug/l | 73.33 |
| As | 75 | 72 | 1 | NO GAS | 0.090 | ug/l | 3981.21 |
| As | 75 | 72 | 3 | He | 0.019 | ug/l | 12.67 |
| Se | 78 | 72 | 2 | H2 | 0.028 | ug/l | 6.33 |
| Br | 79 | 72 | 1 | NO GAS | 0.253 | ug/l | 74465.13 |
| Br | 79 | 72 | 2 | H2 | 0.645 | ug/l | 10812.16 |
| Se | 82 | 72 | 1 | NO GAS | 0.727 | ug/l | 388.59 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8322.33 |
| Sr | 88 | 72 | 1 | NO GAS | 0.027 | ug/l | 1427.25 |
| Sr | 88 | 72 | 3 | He | 0.007 | ug/l | 240.00 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.026 | ug/l | 302.23 |
| Mo | 95 | 72 | 3 | He | 0.037 | ug/l | 135.56 |
| Mo | 98 | 72 | 1 | NO GAS | 0.025 | ug/l | 507.31 |
| Ag | 107 | 72 | 1 | NO GAS | 0.007 | ug/l | 2045.06 |
| Ag | 109 | 72 | 1 | NO GAS | 0.011 | ug/l | 2019.73 |
| Cd | 111 | 159 | 1 | NO GAS | 0.016 | ug/l | 109.43 |
| Cd | 111 | 159 | 3 | He | 0.027 | ug/l | 43.99 |
| Cd | 114 | 159 | 1 | NO GAS | 0.022 | ug/l | 96.72 |
| Cd | 114 | 159 | 3 | He | 0.028 | ug/l | 80.05 |
| Sn | 118 | 159 | 1 | NO GAS | -2.342 | ug/l | 4105.75 |
| Sn | 118 | 159 | 3 | He | -2.413 | ug/l | 713.36 |
| Sb | 121 | 159 | 1 | NO GAS | 0.014 | ug/l | 936.70 |
| Sb | 121 | 159 | 3 | He | 0.016 | ug/l | 136.67 |
| Sb | 123 | 159 | 1 | NO GAS | 0.017 | ug/l | 796.69 |
| Sb | 123 | 159 | 3 | He | 0.024 | ug/l | 120.00 |
| Ba | 135 | 159 | 1 | NO GAS | 0.027 | ug/l | 169.67 |
| Ba | 137 | 159 | 1 | NO GAS | 0.022 | ug/l | 249.51 |
| La | 139 | 175 | 1 | NO GAS | 0.025 | ug/l | 2179.07 |
| La | 139 | 175 | 3 | He | 0.022 | ug/l | 433.78 |
| Ce | 140 | 175 | 1 | NO GAS | 0.022 | ug/l | 1915.42 |
| Ce | 140 | 175 | 3 | He | 0.024 | ug/l | 607.30 |
| Hg | 201 | 175 | 1 | NO GAS | -0.001 | ug/l | 19.67 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 84.31 |
| Hg | 202 | 175 | 3 | He | 0.000 | ug/l | 35.99 |
| Tl | 203 | 175 | 3 | He | 0.022 | ug/l | 713.21 |
| Tl | 205 | 175 | 1 | NO GAS | 0.019 | ug/l | 3037.00 |
| Tl | 205 | 175 | 3 | He | 0.019 | ug/l | 1669.43 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.021 | ug/l | 553.35 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.024 | ug/l | 528.90 |
| Pb | 208 | 175 | 1 | NO GAS | 0.024 | ug/l | 2422.33 |
| Th | 232 | 175 | 3 | He | 0.011 | ug/l | 1954.42 |
| U | 238 | 175 | 1 | NO GAS | 0.023 | ug/l | 2573.72 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2048032.19 | 98.4 |
| Sc | 45 | 2 | H2 | 90734.66 | 99.9 |
| Sc | 45 | 3 | He | 54742.12 | 99.7 |
| Ge | 72 | 1 | NO GAS | 915678.62 | 102.2 |
| Ge | 72 | 2 | H2 | 128265.42 | 99.1 |
| Ge | 72 | 3 | He | 86604.34 | 102.7 |
| Tb | 159 | 1 | NO GAS | 19978249.42 | 99.3 |
| Tb | 159 | 3 | He | 7546185.19 | 102.7 |
| Ho | 165 | 1 | NO GAS | 18567037.84 | 98.9 |
| Ho | 165 | 3 | He | 7288028.81 | 100.6 |
| Lu | 175 | 1 | NO GAS | 20430529.81 | 102.1 |
| Lu | 175 | 3 | He | 4460535.43 | 101.1 |

ICPMS206-B Analytical Data

Sample Name 1000 PPB STD
File Name 109CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 05:21:50
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 2635.605 | ug/l | 1853064.76 |
| Be | 9 | 45 | 1 | NO GAS | 994.983 | ug/l | 358862.55 |
| B | 11 | 45 | 1 | NO GAS | 984.340 | ug/l | 256318.61 |
| Na | 23 | 45 | 3 | He | 50139.285 | ug/l | 5971619.29 |
| Mg | 24 | 45 | 3 | He | 50477.693 | ug/l | 3133926.50 |
| Al | 27 | 45 | 1 | NO GAS | 1017.243 | ug/l | 3930546.85 |
| Si | 28 | 45 | 2 | H2 | -60.329 | ug/l | 271.95 |
| K | 39 | 72 | 3 | He | 50794.757 | ug/l | 2853738.00 |
| Ca | 40 | 72 | 2 | H2 | 50632.558 | ug/l | 13297281.21 |
| Ti | 47 | 72 | 1 | NO GAS | 6.022 | ug/l | 5869.86 |
| V | 51 | 72 | 1 | NO GAS | 1059.981 | ug/l | 16413589.48 |
| V | 51 | 72 | 3 | He | 1064.698 | ug/l | 1740143.95 |
| Cr | 52 | 72 | 1 | NO GAS | 1077.371 | ug/l | 14975915.32 |
| Cr | 52 | 72 | 3 | He | 1068.350 | ug/l | 2313511.29 |
| Cr | 53 | 72 | 1 | NO GAS | 1554.208 | ug/l | 1877649.39 |
| Mn | 55 | 72 | 1 | NO GAS | 1064.460 | ug/l | 22614027.52 |
| Mn | 55 | 72 | 3 | He | 1026.955 | ug/l | 1085845.29 |
| Fe | 56 | 72 | 2 | H2 | 6126.841 | ug/l | 9222012.70 |
| Fe | 56 | 72 | 3 | He | 6002.966 | ug/l | 11838353.09 |
| Co | 59 | 72 | 1 | NO GAS | 1042.515 | ug/l | 19180562.91 |
| Ni | 60 | 72 | 1 | NO GAS | 1036.039 | ug/l | 4142280.70 |
| Ni | 60 | 72 | 3 | He | 1037.120 | ug/l | 1389841.81 |
| Ni | 62 | 72 | 1 | NO GAS | 1015.748 | ug/l | 630257.94 |
| Cu | 63 | 72 | 1 | NO GAS | 995.485 | ug/l | 10112740.37 |
| Cu | 63 | 72 | 3 | He | 1007.005 | ug/l | 4039726.17 |
| Cu | 65 | 72 | 1 | NO GAS | 1001.844 | ug/l | 5050804.76 |
| Zn | 66 | 72 | 1 | NO GAS | 996.669 | ug/l | 3342841.59 |
| Zn | 66 | 72 | 3 | He | 998.466 | ug/l | 591139.61 |
| As | 75 | 72 | 1 | NO GAS | 976.197 | ug/l | 3547449.36 |
| As | 75 | 72 | 3 | He | 1010.422 | ug/l | 389324.04 |
| Se | 78 | 72 | 2 | H2 | 991.649 | ug/l | 136788.76 |
| Br | 79 | 72 | 1 | NO GAS | 0.753 | ug/l | 83523.57 |
| Br | 79 | 72 | 2 | H2 | 2.293 | ug/l | 15932.88 |
| Se | 82 | 72 | 1 | NO GAS | 952.005 | ug/l | 291842.72 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 250585.46 |
| Sr | 88 | 72 | 1 | NO GAS | 1018.491 | ug/l | 42347001.67 |
| Sr | 88 | 72 | 3 | He | 1025.320 | ug/l | 1948859.24 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 0.058 | ug/l | 617.79 |
| Mo | 95 | 72 | 3 | He | 0.045 | ug/l | 187.78 |
| Mo | 98 | 72 | 1 | NO GAS | 0.069 | ug/l | 1221.60 |
| Ag | 107 | 72 | 1 | NO GAS | 387.961 | ug/l | 9784047.20 |
| Ag | 109 | 72 | 1 | NO GAS | 345.258 | ug/l | 8575759.65 |
| Cd | 111 | 159 | 1 | NO GAS | 994.591 | ug/l | 5832079.61 |
| Cd | 111 | 159 | 3 | He | 1033.583 | ug/l | 1551973.58 |
| Cd | 114 | 159 | 1 | NO GAS | 997.586 | ug/l | 13573049.57 |
| Cd | 114 | 159 | 3 | He | 984.849 | ug/l | 3854819.18 |
| Sn | 118 | 159 | 1 | NO GAS | -2.263 | ug/l | 5303.73 |
| Sn | 118 | 159 | 3 | He | -2.332 | ug/l | 943.37 |
| Sb | 121 | 159 | 1 | NO GAS | 0.128 | ug/l | 3707.12 |
| Sb | 121 | 159 | 3 | He | 0.109 | ug/l | 477.79 |
| Sb | 123 | 159 | 1 | NO GAS | 0.138 | ug/l | 3127.00 |
| Sb | 123 | 159 | 3 | He | 0.119 | ug/l | 408.90 |
| Ba | 135 | 159 | 1 | NO GAS | 959.649 | ug/l | 5041482.17 |
| Ba | 137 | 159 | 1 | NO GAS | 952.610 | ug/l | 8681002.39 |
| La | 139 | 175 | 1 | NO GAS | 0.013 | ug/l | 1111.18 |
| La | 139 | 175 | 3 | He | 0.007 | ug/l | 156.83 |
| Ce | 140 | 175 | 1 | NO GAS | 0.021 | ug/l | 1788.60 |
| Ce | 140 | 175 | 3 | He | 0.023 | ug/l | 590.62 |
| Hg | 201 | 175 | 1 | NO GAS | 0.010 | ug/l | 63.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.015 | ug/l | 224.63 |
| Hg | 202 | 175 | 3 | He | 0.009 | ug/l | 100.31 |
| Tl | 203 | 175 | 3 | He | 945.949 | ug/l | 13638262.56 |
| Tl | 205 | 175 | 1 | NO GAS | 947.788 | ug/l | 61933537.97 |
| Tl | 205 | 175 | 3 | He | 926.340 | ug/l | 32746002.05 |
| [Pb] | 206 | 175 | 1 | NO GAS | 936.742 | ug/l | 20637301.22 |
| [Pb] | 207 | 175 | 1 | NO GAS | 931.293 | ug/l | 17790120.57 |
| Pb | 208 | 175 | 1 | NO GAS | 945.581 | ug/l | 82675786.41 |
| Th | 232 | 175 | 3 | He | 958.885 | ug/l | 49467446.54 |
| U | 238 | 175 | 1 | NO GAS | 958.649 | ug/l | 96466665.46 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2587187.90 | 124.3 |
| Sc | 45 | 2 | H2 | 122340.96 | 134.7 |
| Sc | 45 | 3 | He | 71977.32 | 131.0 |
| Ge | 72 | 1 | NO GAS | 981882.38 | 109.6 |
| Ge | 72 | 2 | H2 | 164993.13 | 127.4 |
| Ge | 72 | 3 | He | 103955.29 | 123.3 |
| Tb | 159 | 1 | NO GAS | 19202678.04 | 95.4 |
| Tb | 159 | 3 | He | 7636798.82 | 103.9 |
| Ho | 165 | 1 | NO GAS | 18349965.78 | 97.8 |
| Ho | 165 | 3 | He | 7295134.62 | 100.7 |
| Lu | 175 | 1 | NO GAS | 19795901.66 | 98.9 |
| Lu | 175 | 3 | He | 4536571.51 | 102.8 |

ICPMS206-B Analytical Data

Sample Name 0.05 PPB STD
File Name 102CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 04:40:58
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.289 | ug/l | 2783.01 |
| Be | 9 | 45 | 1 | NO GAS | 0.049 | ug/l | 16.33 |
| B | 11 | 45 | 1 | NO GAS | -0.399 | ug/l | 225.29 |
| Na | 23 | 45 | 3 | He | -0.358 | ug/l | 9430.39 |
| Mg | 24 | 45 | 3 | He | 12.492 | ug/l | 682.00 |
| Al | 27 | 45 | 1 | NO GAS | 0.066 | ug/l | 765.58 |
| Si | 28 | 45 | 2 | H2 | -25.231 | ug/l | 723.87 |
| K | 39 | 72 | 3 | He | 8.203 | ug/l | 3366.47 |
| Ca | 40 | 72 | 2 | H2 | 14.009 | ug/l | 3418.67 |
| Ti | 47 | 72 | 1 | NO GAS | 0.075 | ug/l | 108.28 |
| V | 51 | 72 | 1 | NO GAS | 0.700 | ug/l | -13915.98 |
| V | 51 | 72 | 3 | He | 0.060 | ug/l | 418.90 |
| Cr | 52 | 72 | 1 | NO GAS | 0.052 | ug/l | 16495.45 |
| Cr | 52 | 72 | 3 | He | 0.061 | ug/l | 252.84 |
| Cr | 53 | 72 | 1 | NO GAS | -2.611 | ug/l | 129505.53 |
| Mn | 55 | 72 | 1 | NO GAS | 0.044 | ug/l | 2029.45 |
| Mn | 55 | 72 | 3 | He | 0.047 | ug/l | 52.67 |
| Fe | 56 | 72 | 2 | H2 | 1.225 | ug/l | 1734.25 |
| Fe | 56 | 72 | 3 | He | 1.396 | ug/l | 2928.84 |
| Co | 59 | 72 | 1 | NO GAS | 0.057 | ug/l | 1074.58 |
| Ni | 60 | 72 | 1 | NO GAS | 0.062 | ug/l | 256.16 |
| Ni | 60 | 72 | 3 | He | 0.051 | ug/l | 92.22 |
| Ni | 62 | 72 | 1 | NO GAS | 0.018 | ug/l | 425.84 |
| Cu | 63 | 72 | 1 | NO GAS | 0.035 | ug/l | 827.86 |
| Cu | 63 | 72 | 3 | He | 0.038 | ug/l | 323.27 |
| Cu | 65 | 72 | 1 | NO GAS | 0.034 | ug/l | 413.26 |
| Zn | 66 | 72 | 1 | NO GAS | 0.025 | ug/l | 425.59 |
| Zn | 66 | 72 | 3 | He | 0.020 | ug/l | 71.11 |
| As | 75 | 72 | 1 | NO GAS | -0.082 | ug/l | 3547.11 |
| As | 75 | 72 | 3 | He | 0.049 | ug/l | 23.00 |
| Se | 78 | 72 | 2 | H2 | 0.056 | ug/l | 9.33 |
| Br | 79 | 72 | 1 | NO GAS | 0.295 | ug/l | 76825.26 |
| Br | 79 | 72 | 2 | H2 | 1.275 | ug/l | 11454.73 |
| Se | 82 | 72 | 1 | NO GAS | 0.722 | ug/l | 397.89 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8089.38 |
| Sr | 88 | 72 | 1 | NO GAS | 0.052 | ug/l | 2488.60 |
| Sr | 88 | 72 | 3 | He | 0.069 | ug/l | 346.67 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Mo | 95 | 72 | 1 | NO GAS | 0.048 | ug/l | 496.68 |
| Mo | 95 | 72 | 3 | He | 0.046 | ug/l | 165.56 |
| Mo | 98 | 72 | 1 | NO GAS | 0.048 | ug/l | 863.72 |
| Ag | 107 | 72 | 1 | NO GAS | 0.019 | ug/l | 2389.71 |
| Ag | 109 | 72 | 1 | NO GAS | 0.019 | ug/l | 2270.72 |
| Cd | 111 | 159 | 1 | NO GAS | 0.048 | ug/l | 306.46 |
| Cd | 111 | 159 | 3 | He | 0.049 | ug/l | 74.65 |
| Cd | 114 | 159 | 1 | NO GAS | 0.054 | ug/l | 552.60 |
| Cd | 114 | 159 | 3 | He | 0.061 | ug/l | 207.78 |
| Sn | 118 | 159 | 1 | NO GAS | -2.295 | ug/l | 4964.28 |
| Sn | 118 | 159 | 3 | He | -2.379 | ug/l | 796.69 |
| Sb | 121 | 159 | 1 | NO GAS | 0.041 | ug/l | 1603.43 |
| Sb | 121 | 159 | 3 | He | 0.062 | ug/l | 300.01 |
| Sb | 123 | 159 | 1 | NO GAS | 0.039 | ug/l | 1235.61 |
| Sb | 123 | 159 | 3 | He | 0.045 | ug/l | 181.11 |
| Ba | 135 | 159 | 1 | NO GAS | 0.053 | ug/l | 312.72 |
| Ba | 137 | 159 | 1 | NO GAS | 0.059 | ug/l | 608.81 |
| La | 139 | 175 | 1 | NO GAS | 0.054 | ug/l | 4708.86 |
| La | 139 | 175 | 3 | He | 0.053 | ug/l | 1067.80 |
| Ce | 140 | 175 | 1 | NO GAS | 0.052 | ug/l | 4525.29 |
| Ce | 140 | 175 | 3 | He | 0.051 | ug/l | 1301.39 |
| Hg | 201 | 175 | 1 | NO GAS | -0.001 | ug/l | 20.33 |
| Hg | 202 | 175 | 1 | NO GAS | 0.001 | ug/l | 90.98 |
| Hg | 202 | 175 | 3 | He | 0.001 | ug/l | 44.32 |
| Tl | 203 | 175 | 3 | He | 0.049 | ug/l | 1111.16 |
| Tl | 205 | 175 | 1 | NO GAS | 0.046 | ug/l | 4850.81 |
| Tl | 205 | 175 | 3 | He | 0.050 | ug/l | 2807.04 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.051 | ug/l | 1233.39 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.050 | ug/l | 1046.71 |
| Pb | 208 | 175 | 1 | NO GAS | 0.052 | ug/l | 4975.92 |
| Th | 232 | 175 | 3 | He | 0.032 | ug/l | 3060.39 |
| U | 238 | 175 | 1 | NO GAS | 0.051 | ug/l | 5527.27 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2101237.32 | 100.9 |
| Sc | 45 | 2 | H2 | 89330.51 | 98.4 |
| Sc | 45 | 3 | He | 56099.52 | 102.1 |
| Ge | 72 | 1 | NO GAS | 942436.42 | 105.2 |
| Ge | 72 | 2 | H2 | 128772.89 | 99.5 |
| Ge | 72 | 3 | He | 88878.59 | 105.4 |
| Tb | 159 | 1 | NO GAS | 20064071.28 | 99.7 |
| Tb | 159 | 3 | He | 7469174.59 | 101.7 |
| Ho | 165 | 1 | NO GAS | 19166687.68 | 102.1 |
| Ho | 165 | 3 | He | 7453297.88 | 102.9 |
| Lu | 175 | 1 | NO GAS | 20643325.30 | 103.1 |
| Lu | 175 | 3 | He | 4557951.07 | 103.3 |

ICPMS206-B Analytical Data

Sample Name 0.10 PPB STD
File Name 103CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 04:46:50
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 0.637 | ug/l | 3092.33 |
| Be | 9 | 45 | 1 | NO GAS | 0.102 | ug/l | 32.32 |
| B | 11 | 45 | 1 | NO GAS | -0.388 | ug/l | 231.29 |
| Na | 23 | 45 | 3 | He | 23.637 | ug/l | 11806.30 |
| Mg | 24 | 45 | 3 | He | 26.321 | ug/l | 1364.02 |
| Al | 27 | 45 | 1 | NO GAS | 0.550 | ug/l | 2311.29 |
| Si | 28 | 45 | 2 | H2 | -34.705 | ug/l | 562.57 |
| K | 39 | 72 | 3 | He | 23.232 | ug/l | 4104.97 |
| Ca | 40 | 72 | 2 | H2 | 32.200 | ug/l | 7123.02 |
| Ti | 47 | 72 | 1 | NO GAS | 0.142 | ug/l | 171.58 |
| V | 51 | 72 | 1 | NO GAS | -0.063 | ug/l | -25580.33 |
| V | 51 | 72 | 3 | He | 0.092 | ug/l | 466.68 |
| Cr | 52 | 72 | 1 | NO GAS | 0.022 | ug/l | 15999.34 |
| Cr | 52 | 72 | 3 | He | 0.123 | ug/l | 369.28 |
| Cr | 53 | 72 | 1 | NO GAS | -0.437 | ug/l | 131157.68 |
| Mn | 55 | 72 | 1 | NO GAS | 0.109 | ug/l | 3317.11 |
| Mn | 55 | 72 | 3 | He | 0.125 | ug/l | 123.01 |
| Fe | 56 | 72 | 2 | H2 | 3.109 | ug/l | 3928.55 |
| Fe | 56 | 72 | 3 | He | 3.252 | ug/l | 6086.46 |
| Co | 59 | 72 | 1 | NO GAS | 0.122 | ug/l | 2199.13 |
| Ni | 60 | 72 | 1 | NO GAS | 0.121 | ug/l | 475.73 |
| Ni | 60 | 72 | 3 | He | 0.135 | ug/l | 190.00 |
| Ni | 62 | 72 | 1 | NO GAS | 0.019 | ug/l | 419.18 |
| Cu | 63 | 72 | 1 | NO GAS | 0.128 | ug/l | 1727.75 |
| Cu | 63 | 72 | 3 | He | 0.126 | ug/l | 630.22 |
| Cu | 65 | 72 | 1 | NO GAS | 0.129 | ug/l | 863.86 |
| Zn | 66 | 72 | 1 | NO GAS | 0.198 | ug/l | 971.13 |
| Zn | 66 | 72 | 3 | He | 0.236 | ug/l | 181.11 |
| As | 75 | 72 | 1 | NO GAS | 0.074 | ug/l | 4035.11 |
| As | 75 | 72 | 3 | He | 0.102 | ug/l | 40.32 |
| Se | 78 | 72 | 2 | H2 | 0.066 | ug/l | 10.33 |
| Br | 79 | 72 | 1 | NO GAS | 0.054 | ug/l | 74645.65 |
| Br | 79 | 72 | 2 | H2 | 0.054 | ug/l | 10239.62 |
| Se | 82 | 72 | 1 | NO GAS | 1.250 | ug/l | 548.29 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8046.07 |
| Sr | 88 | 72 | 1 | NO GAS | 0.122 | ug/l | 5227.18 |
| Sr | 88 | 72 | 3 | He | 0.126 | ug/l | 442.23 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.112 | ug/l | 1038.93 |
| Mo | 95 | 72 | 3 | He | 0.115 | ug/l | 351.12 |
| Mo | 98 | 72 | 1 | NO GAS | 0.118 | ug/l | 1872.91 |
| Ag | 107 | 72 | 1 | NO GAS | 0.045 | ug/l | 2995.03 |
| Ag | 109 | 72 | 1 | NO GAS | 0.047 | ug/l | 2923.03 |
| Cd | 111 | 159 | 1 | NO GAS | 0.129 | ug/l | 796.80 |
| Cd | 111 | 159 | 3 | He | 0.106 | ug/l | 159.97 |
| Cd | 114 | 159 | 1 | NO GAS | 0.114 | ug/l | 1403.30 |
| Cd | 114 | 159 | 3 | He | 0.126 | ug/l | 458.71 |
| Sn | 118 | 159 | 1 | NO GAS | -2.257 | ug/l | 5599.93 |
| Sn | 118 | 159 | 3 | He | -2.339 | ug/l | 908.93 |
| Sb | 121 | 159 | 1 | NO GAS | 0.104 | ug/l | 3217.02 |
| Sb | 121 | 159 | 3 | He | 0.114 | ug/l | 490.01 |
| Sb | 123 | 159 | 1 | NO GAS | 0.102 | ug/l | 2503.55 |
| Sb | 123 | 159 | 3 | He | 0.112 | ug/l | 382.23 |
| Ba | 135 | 159 | 1 | NO GAS | 0.117 | ug/l | 662.04 |
| Ba | 137 | 159 | 1 | NO GAS | 0.116 | ug/l | 1137.80 |
| La | 139 | 175 | 1 | NO GAS | 0.117 | ug/l | 10437.49 |
| La | 139 | 175 | 3 | He | 0.119 | ug/l | 2339.24 |
| Ce | 140 | 175 | 1 | NO GAS | 0.112 | ug/l | 9953.29 |
| Ce | 140 | 175 | 3 | He | 0.115 | ug/l | 2886.56 |
| Hg | 201 | 175 | 1 | NO GAS | 0.000 | ug/l | 23.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.001 | ug/l | 96.65 |
| Hg | 202 | 175 | 3 | He | 0.000 | ug/l | 40.32 |
| Tl | 203 | 175 | 3 | He | 0.110 | ug/l | 1972.41 |
| Tl | 205 | 175 | 1 | NO GAS | 0.100 | ug/l | 8740.36 |
| Tl | 205 | 175 | 3 | He | 0.107 | ug/l | 4767.82 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.115 | ug/l | 2758.05 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.110 | ug/l | 2303.53 |
| Pb | 208 | 175 | 1 | NO GAS | 0.116 | ug/l | 11033.93 |
| Th | 232 | 175 | 3 | He | 0.083 | ug/l | 5653.30 |
| U | 238 | 175 | 1 | NO GAS | 0.111 | ug/l | 12077.52 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2127167.07 | 102.2 |
| Sc | 45 | 2 | H2 | 86463.90 | 95.2 |
| Sc | 45 | 3 | He | 56759.41 | 103.3 |
| Ge | 72 | 1 | NO GAS | 934375.36 | 104.3 |
| Ge | 72 | 2 | H2 | 128279.73 | 99.1 |
| Ge | 72 | 3 | He | 89286.35 | 105.9 |
| Tb | 159 | 1 | NO GAS | 19935785.08 | 99.1 |
| Tb | 159 | 3 | He | 7521535.75 | 102.4 |
| Ho | 165 | 1 | NO GAS | 19396388.62 | 103.3 |
| Ho | 165 | 3 | He | 7154318.08 | 98.8 |
| Lu | 175 | 1 | NO GAS | 21081868.42 | 105.3 |
| Lu | 175 | 3 | He | 4510628.02 | 102.3 |

ICPMS206-B Analytical Data

Sample Name 0.5 PPB STD
File Name 104CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 04:52:42
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 4.062 | ug/l | 5539.12 |
| Be | 9 | 45 | 1 | NO GAS | 0.477 | ug/l | 140.64 |
| B | 11 | 45 | 1 | NO GAS | -0.046 | ug/l | 298.61 |
| Na | 23 | 45 | 3 | He | 115.066 | ug/l | 20638.98 |
| Mg | 24 | 45 | 3 | He | 121.152 | ug/l | 6082.41 |
| Al | 27 | 45 | 1 | NO GAS | 0.541 | ug/l | 2241.27 |
| Si | 28 | 45 | 2 | H2 | -40.155 | ug/l | 503.24 |
| K | 39 | 72 | 3 | He | 108.204 | ug/l | 8280.96 |
| Ca | 40 | 72 | 2 | H2 | 117.241 | ug/l | 25293.19 |
| Ti | 47 | 72 | 1 | NO GAS | 0.457 | ug/l | 461.45 |
| V | 51 | 72 | 1 | NO GAS | 0.195 | ug/l | -21687.25 |
| V | 51 | 72 | 3 | He | 0.452 | ug/l | 981.15 |
| Cr | 52 | 72 | 1 | NO GAS | 0.442 | ug/l | 21594.46 |
| Cr | 52 | 72 | 3 | He | 0.489 | ug/l | 1061.27 |
| Cr | 53 | 72 | 1 | NO GAS | 0.641 | ug/l | 132541.10 |
| Mn | 55 | 72 | 1 | NO GAS | 0.489 | ug/l | 11001.85 |
| Mn | 55 | 72 | 3 | He | 0.503 | ug/l | 470.72 |
| Fe | 56 | 72 | 2 | H2 | 12.350 | ug/l | 15231.11 |
| Fe | 56 | 72 | 3 | He | 12.875 | ug/l | 22609.06 |
| Co | 59 | 72 | 1 | NO GAS | 0.461 | ug/l | 8145.87 |
| Ni | 60 | 72 | 1 | NO GAS | 0.484 | ug/l | 1859.76 |
| Ni | 60 | 72 | 3 | He | 0.509 | ug/l | 625.57 |
| Ni | 62 | 72 | 1 | NO GAS | 0.318 | ug/l | 598.83 |
| Cu | 63 | 72 | 1 | NO GAS | 0.509 | ug/l | 5410.48 |
| Cu | 63 | 72 | 3 | He | 0.531 | ug/l | 2043.72 |
| Cu | 65 | 72 | 1 | NO GAS | 0.512 | ug/l | 2703.69 |
| Zn | 66 | 72 | 1 | NO GAS | 0.449 | ug/l | 1776.14 |
| Zn | 66 | 72 | 3 | He | 0.531 | ug/l | 334.45 |
| As | 75 | 72 | 1 | NO GAS | 0.247 | ug/l | 4640.32 |
| As | 75 | 72 | 3 | He | 0.464 | ug/l | 161.97 |
| Se | 78 | 72 | 2 | H2 | 0.643 | ug/l | 74.65 |
| Br | 79 | 72 | 1 | NO GAS | 0.333 | ug/l | 76688.16 |
| Br | 79 | 72 | 2 | H2 | 0.907 | ug/l | 11434.74 |
| Se | 82 | 72 | 1 | NO GAS | 0.753 | ug/l | 406.56 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8072.67 |
| Sr | 88 | 72 | 1 | NO GAS | 0.514 | ug/l | 20762.07 |
| Sr | 88 | 72 | 3 | He | 0.502 | ug/l | 1065.59 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.515 | ug/l | 4459.53 |
| Mo | 95 | 72 | 3 | He | 0.504 | ug/l | 1414.52 |
| Mo | 98 | 72 | 1 | NO GAS | 0.494 | ug/l | 7335.73 |
| Ag | 107 | 72 | 1 | NO GAS | 0.211 | ug/l | 6988.80 |
| Ag | 109 | 72 | 1 | NO GAS | 0.207 | ug/l | 6710.74 |
| Cd | 111 | 159 | 1 | NO GAS | 0.482 | ug/l | 2998.49 |
| Cd | 111 | 159 | 3 | He | 0.497 | ug/l | 742.54 |
| Cd | 114 | 159 | 1 | NO GAS | 0.503 | ug/l | 7021.54 |
| Cd | 114 | 159 | 3 | He | 0.506 | ug/l | 1932.84 |
| Sn | 118 | 159 | 1 | NO GAS | -1.863 | ug/l | 12846.36 |
| Sn | 118 | 159 | 3 | He | -1.964 | ug/l | 1934.58 |
| Sb | 121 | 159 | 1 | NO GAS | 0.451 | ug/l | 12345.93 |
| Sb | 121 | 159 | 3 | He | 0.438 | ug/l | 1674.54 |
| Sb | 123 | 159 | 1 | NO GAS | 0.448 | ug/l | 9727.47 |
| Sb | 123 | 159 | 3 | He | 0.493 | ug/l | 1518.98 |
| Ba | 135 | 159 | 1 | NO GAS | 0.500 | ug/l | 2801.41 |
| Ba | 137 | 159 | 1 | NO GAS | 0.451 | ug/l | 4388.61 |
| La | 139 | 175 | 1 | NO GAS | 0.498 | ug/l | 43707.96 |
| La | 139 | 175 | 3 | He | 0.484 | ug/l | 9726.27 |
| Ce | 140 | 175 | 1 | NO GAS | 0.497 | ug/l | 43209.16 |
| Ce | 140 | 175 | 3 | He | 0.470 | ug/l | 11970.08 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 52.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.008 | ug/l | 161.30 |
| Hg | 202 | 175 | 3 | He | 0.009 | ug/l | 100.31 |
| Tl | 203 | 175 | 3 | He | 0.478 | ug/l | 7408.36 |
| Tl | 205 | 175 | 1 | NO GAS | 0.465 | ug/l | 33766.60 |
| Tl | 205 | 175 | 3 | He | 0.484 | ug/l | 18415.53 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.482 | ug/l | 11253.15 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.494 | ug/l | 10000.05 |
| Pb | 208 | 175 | 1 | NO GAS | 0.493 | ug/l | 45592.93 |
| Th | 232 | 175 | 3 | He | 0.409 | ug/l | 22859.68 |
| U | 238 | 175 | 1 | NO GAS | 0.470 | ug/l | 49992.79 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2088269.70 | 100.3 |
| Sc | 45 | 2 | H2 | 90163.49 | 99.3 |
| Sc | 45 | 3 | He | 57487.26 | 104.7 |
| Ge | 72 | 1 | NO GAS | 935245.84 | 104.4 |
| Ge | 72 | 2 | H2 | 132566.41 | 102.4 |
| Ge | 72 | 3 | He | 90181.46 | 107.0 |
| Tb | 159 | 1 | NO GAS | 20316626.54 | 101.0 |
| Tb | 159 | 3 | He | 7556717.02 | 102.9 |
| Ho | 165 | 1 | NO GAS | 19084270.06 | 101.7 |
| Ho | 165 | 3 | He | 7344201.23 | 101.4 |
| Lu | 175 | 1 | NO GAS | 20835216.78 | 104.1 |
| Lu | 175 | 3 | He | 4608059.51 | 104.5 |

ICPMS206-B Analytical Data

Sample Name 1 PPB STD
File Name 105CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 04:58:34
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 9.555 | ug/l | 9512.71 |
| Be | 9 | 45 | 1 | NO GAS | 1.082 | ug/l | 312.94 |
| B | 11 | 45 | 1 | NO GAS | 0.537 | ug/l | 415.93 |
| Na | 23 | 45 | 3 | He | 269.025 | ug/l | 35142.38 |
| Mg | 24 | 45 | 3 | He | 284.205 | ug/l | 14114.60 |
| Al | 27 | 45 | 1 | NO GAS | 1.138 | ug/l | 4047.19 |
| Si | 28 | 45 | 2 | H2 | -47.427 | ug/l | 404.59 |
| K | 39 | 72 | 3 | He | 245.265 | ug/l | 14584.08 |
| Ca | 40 | 72 | 2 | H2 | 268.939 | ug/l | 57421.79 |
| Ti | 47 | 72 | 1 | NO GAS | 1.099 | ug/l | 1091.17 |
| V | 51 | 72 | 1 | NO GAS | 1.485 | ug/l | -2822.80 |
| V | 51 | 72 | 3 | He | 1.083 | ug/l | 1827.89 |
| Cr | 52 | 72 | 1 | NO GAS | 0.960 | ug/l | 29490.94 |
| Cr | 52 | 72 | 3 | He | 1.126 | ug/l | 2199.14 |
| Cr | 53 | 72 | 1 | NO GAS | -6.003 | ug/l | 130071.75 |
| Mn | 55 | 72 | 1 | NO GAS | 1.029 | ug/l | 22717.01 |
| Mn | 55 | 72 | 3 | He | 1.133 | ug/l | 1023.14 |
| Fe | 56 | 72 | 2 | H2 | 26.930 | ug/l | 32934.37 |
| Fe | 56 | 72 | 3 | He | 29.120 | ug/l | 49110.60 |
| Co | 59 | 72 | 1 | NO GAS | 1.082 | ug/l | 19712.73 |
| Ni | 60 | 72 | 1 | NO GAS | 1.101 | ug/l | 4365.29 |
| Ni | 60 | 72 | 3 | He | 1.213 | ug/l | 1407.85 |
| Ni | 62 | 72 | 1 | NO GAS | 0.926 | ug/l | 991.41 |
| Cu | 63 | 72 | 1 | NO GAS | 1.079 | ug/l | 11329.60 |
| Cu | 63 | 72 | 3 | He | 1.210 | ug/l | 4295.69 |
| Cu | 65 | 72 | 1 | NO GAS | 1.075 | ug/l | 5615.17 |
| Zn | 66 | 72 | 1 | NO GAS | 1.021 | ug/l | 3732.43 |
| Zn | 66 | 72 | 3 | He | 1.159 | ug/l | 641.13 |
| As | 75 | 72 | 1 | NO GAS | 1.089 | ug/l | 7841.64 |
| As | 75 | 72 | 3 | He | 1.102 | ug/l | 365.60 |
| Se | 78 | 72 | 2 | H2 | 1.332 | ug/l | 151.30 |
| Br | 79 | 72 | 1 | NO GAS | 0.045 | ug/l | 77450.93 |
| Br | 79 | 72 | 2 | H2 | 0.570 | ug/l | 11121.71 |
| Se | 82 | 72 | 1 | NO GAS | 1.963 | ug/l | 787.84 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8265.74 |
| Sr | 88 | 72 | 1 | NO GAS | 1.087 | ug/l | 45059.04 |
| Sr | 88 | 72 | 3 | He | 1.160 | ug/l | 2097.93 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 1.059 | ug/l | 9408.34 |
| Mo | 95 | 72 | 3 | He | 1.233 | ug/l | 3311.47 |
| Mo | 98 | 72 | 1 | NO GAS | 1.072 | ug/l | 16296.87 |
| Ag | 107 | 72 | 1 | NO GAS | 0.453 | ug/l | 13294.81 |
| Ag | 109 | 72 | 1 | NO GAS | 0.449 | ug/l | 12902.60 |
| Cd | 111 | 159 | 1 | NO GAS | 1.099 | ug/l | 6869.22 |
| Cd | 111 | 159 | 3 | He | 1.129 | ug/l | 1663.76 |
| Cd | 114 | 159 | 1 | NO GAS | 1.145 | ug/l | 16348.72 |
| Cd | 114 | 159 | 3 | He | 1.144 | ug/l | 4360.33 |
| Sn | 118 | 159 | 1 | NO GAS | -1.285 | ug/l | 23414.06 |
| Sn | 118 | 159 | 3 | He | -1.281 | ug/l | 3756.02 |
| Sb | 121 | 159 | 1 | NO GAS | 1.028 | ug/l | 27501.41 |
| Sb | 121 | 159 | 3 | He | 1.072 | ug/l | 3950.52 |
| Sb | 123 | 159 | 1 | NO GAS | 1.028 | ug/l | 21833.78 |
| Sb | 123 | 159 | 3 | He | 1.139 | ug/l | 3411.50 |
| Ba | 135 | 159 | 1 | NO GAS | 1.054 | ug/l | 5912.77 |
| Ba | 137 | 159 | 1 | NO GAS | 1.087 | ug/l | 10585.98 |
| La | 139 | 175 | 1 | NO GAS | 1.109 | ug/l | 97068.13 |
| La | 139 | 175 | 3 | He | 1.117 | ug/l | 21793.91 |
| Ce | 140 | 175 | 1 | NO GAS | 1.064 | ug/l | 92420.43 |
| Ce | 140 | 175 | 3 | He | 1.091 | ug/l | 26987.22 |
| Hg | 201 | 175 | 1 | NO GAS | 0.021 | ug/l | 112.31 |
| Hg | 202 | 175 | 1 | NO GAS | 0.021 | ug/l | 286.94 |
| Hg | 202 | 175 | 3 | He | 0.021 | ug/l | 179.30 |
| Tl | 203 | 175 | 3 | He | 1.122 | ug/l | 16381.61 |
| Tl | 205 | 175 | 1 | NO GAS | 1.027 | ug/l | 72356.74 |
| Tl | 205 | 175 | 3 | He | 1.136 | ug/l | 40695.68 |
| [Pb] | 206 | 175 | 1 | NO GAS | 1.119 | ug/l | 25991.30 |
| [Pb] | 207 | 175 | 1 | NO GAS | 1.111 | ug/l | 22381.12 |
| Pb | 208 | 175 | 1 | NO GAS | 1.126 | ug/l | 103797.22 |
| Th | 232 | 175 | 3 | He | 1.007 | ug/l | 52726.51 |
| U | 238 | 175 | 1 | NO GAS | 1.077 | ug/l | 114122.22 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2062331.27 | 99.1 |
| Sc | 45 | 2 | H2 | 92208.47 | 101.5 |
| Sc | 45 | 3 | He | 57320.00 | 104.4 |
| Ge | 72 | 1 | NO GAS | 969929.11 | 108.3 |
| Ge | 72 | 2 | H2 | 132863.41 | 102.6 |
| Ge | 72 | 3 | He | 87909.35 | 104.3 |
| Tb | 159 | 1 | NO GAS | 20435835.95 | 101.6 |
| Tb | 159 | 3 | He | 7486314.70 | 101.9 |
| Ho | 165 | 1 | NO GAS | 19005717.55 | 101.2 |
| Ho | 165 | 3 | He | 7259442.94 | 100.2 |
| Lu | 175 | 1 | NO GAS | 20813195.38 | 104.0 |
| Lu | 175 | 3 | He | 4481773.13 | 101.6 |

ICPMS206-B Analytical Data

Sample Name 10 PPB STD
File Name 106CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 05:04:25
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 85.210 | ug/l | 66835.72 |
| Be | 9 | 45 | 1 | NO GAS | 8.806 | ug/l | 2765.34 |
| B | 11 | 45 | 1 | NO GAS | 8.351 | ug/l | 2229.71 |
| Na | 23 | 45 | 3 | He | 2373.541 | ug/l | 221385.23 |
| Mg | 24 | 45 | 3 | He | 2322.382 | ug/l | 108491.94 |
| Al | 27 | 45 | 1 | NO GAS | 9.137 | ug/l | 31365.28 |
| Si | 28 | 45 | 2 | H2 | -0.166 | ug/l | 980.50 |
| K | 39 | 72 | 3 | He | 2231.743 | ug/l | 106012.53 |
| Ca | 40 | 72 | 2 | H2 | 2514.467 | ug/l | 466994.14 |
| Ti | 47 | 72 | 1 | NO GAS | 9.082 | ug/l | 8774.66 |
| V | 51 | 72 | 1 | NO GAS | 8.955 | ug/l | 112520.61 |
| V | 51 | 72 | 3 | He | 9.719 | ug/l | 13407.62 |
| Cr | 52 | 72 | 1 | NO GAS | 9.049 | ug/l | 141394.02 |
| Cr | 52 | 72 | 3 | He | 9.875 | ug/l | 17754.21 |
| Cr | 53 | 72 | 1 | NO GAS | 3.182 | ug/l | 141177.33 |
| Mn | 55 | 72 | 1 | NO GAS | 8.929 | ug/l | 189615.64 |
| Mn | 55 | 72 | 3 | He | 9.762 | ug/l | 8510.99 |
| Fe | 56 | 72 | 2 | H2 | 253.961 | ug/l | 270136.65 |
| Fe | 56 | 72 | 3 | He | 254.852 | ug/l | 414501.43 |
| Co | 59 | 72 | 1 | NO GAS | 9.410 | ug/l | 172129.81 |
| Ni | 60 | 72 | 1 | NO GAS | 9.618 | ug/l | 38211.34 |
| Ni | 60 | 72 | 3 | He | 10.346 | ug/l | 11447.28 |
| Ni | 62 | 72 | 1 | NO GAS | 9.397 | ug/l | 6225.51 |
| Cu | 63 | 72 | 1 | NO GAS | 9.902 | ug/l | 100574.93 |
| Cu | 63 | 72 | 3 | He | 10.619 | ug/l | 35271.00 |
| Cu | 65 | 72 | 1 | NO GAS | 9.692 | ug/l | 48848.56 |
| Zn | 66 | 72 | 1 | NO GAS | 9.653 | ug/l | 32516.16 |
| Zn | 66 | 72 | 3 | He | 9.726 | ug/l | 4800.73 |
| As | 75 | 72 | 1 | NO GAS | 8.903 | ug/l | 36116.13 |
| As | 75 | 72 | 3 | He | 10.159 | ug/l | 3231.01 |
| Se | 78 | 72 | 2 | H2 | 11.521 | ug/l | 1122.15 |
| Br | 79 | 72 | 1 | NO GAS | 0.101 | ug/l | 78389.12 |
| Br | 79 | 72 | 2 | H2 | 1.579 | ug/l | 10652.38 |
| Se | 82 | 72 | 1 | NO GAS | 9.820 | ug/l | 3194.93 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 10882.07 |
| Sr | 88 | 72 | 1 | NO GAS | 10.044 | ug/l | 415712.24 |
| Sr | 88 | 72 | 3 | He | 10.149 | ug/l | 16117.96 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 9.841 | ug/l | 87293.00 |
| Mo | 95 | 72 | 3 | He | 10.573 | ug/l | 27374.04 |
| Mo | 98 | 72 | 1 | NO GAS | 9.704 | ug/l | 147204.65 |
| Ag | 107 | 72 | 1 | NO GAS | 4.077 | ug/l | 104305.80 |
| Ag | 109 | 72 | 1 | NO GAS | 4.000 | ug/l | 100655.44 |
| Cd | 111 | 159 | 1 | NO GAS | 9.375 | ug/l | 59581.32 |
| Cd | 111 | 159 | 3 | He | 9.631 | ug/l | 13969.96 |
| Cd | 114 | 159 | 1 | NO GAS | 9.336 | ug/l | 137252.59 |
| Cd | 114 | 159 | 3 | He | 9.646 | ug/l | 36441.86 |
| Sn | 118 | 159 | 1 | NO GAS | 7.301 | ug/l | 182336.25 |
| Sn | 118 | 159 | 3 | He | 7.551 | ug/l | 27136.21 |
| Sb | 121 | 159 | 1 | NO GAS | 9.002 | ug/l | 240769.82 |
| Sb | 121 | 159 | 3 | He | 9.517 | ug/l | 33986.97 |
| Sb | 123 | 159 | 1 | NO GAS | 8.980 | ug/l | 190649.35 |
| Sb | 123 | 159 | 3 | He | 9.544 | ug/l | 27813.04 |
| Ba | 135 | 159 | 1 | NO GAS | 9.260 | ug/l | 52702.82 |
| Ba | 137 | 159 | 1 | NO GAS | 9.545 | ug/l | 94035.59 |
| La | 139 | 175 | 1 | NO GAS | 9.559 | ug/l | 870417.35 |
| La | 139 | 175 | 3 | He | 9.800 | ug/l | 183904.37 |
| Ce | 140 | 175 | 1 | NO GAS | 9.297 | ug/l | 840209.10 |
| Ce | 140 | 175 | 3 | He | 10.011 | ug/l | 238178.99 |
| Hg | 201 | 175 | 1 | NO GAS | 0.192 | ug/l | 888.85 |
| Hg | 202 | 175 | 1 | NO GAS | 0.194 | ug/l | 2094.73 |
| Hg | 202 | 175 | 3 | He | 0.208 | ug/l | 1400.45 |
| Tl | 203 | 175 | 3 | He | 10.215 | ug/l | 140371.25 |
| Tl | 205 | 175 | 1 | NO GAS | 9.286 | ug/l | 666414.45 |
| Tl | 205 | 175 | 3 | He | 10.204 | ug/l | 343808.66 |
| [Pb] | 206 | 175 | 1 | NO GAS | 9.632 | ug/l | 232445.59 |
| [Pb] | 207 | 175 | 1 | NO GAS | 9.356 | ug/l | 195639.59 |
| Pb | 208 | 175 | 1 | NO GAS | 9.571 | ug/l | 916302.39 |
| Th | 232 | 175 | 3 | He | 9.900 | ug/l | 486785.27 |
| U | 238 | 175 | 1 | NO GAS | 9.236 | ug/l | 1017308.04 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2265665.73 | 108.8 |
| Sc | 45 | 2 | H2 | 80044.29 | 88.1 |
| Sc | 45 | 3 | He | 54158.98 | 98.6 |
| Ge | 72 | 1 | NO GAS | 979066.15 | 109.3 |
| Ge | 72 | 2 | H2 | 116795.57 | 90.2 |
| Ge | 72 | 3 | He | 85630.73 | 101.6 |
| Tb | 159 | 1 | NO GAS | 20932849.19 | 104.0 |
| Tb | 159 | 3 | He | 7376704.05 | 100.4 |
| Ho | 165 | 1 | NO GAS | 19804794.51 | 105.5 |
| Ho | 165 | 3 | He | 7205577.15 | 99.5 |
| Lu | 175 | 1 | NO GAS | 21763163.86 | 108.7 |
| Lu | 175 | 3 | He | 4309824.46 | 97.7 |

ICPMS206-B Analytical Data

Sample Name 50 PPB STD
File Name 107CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 05:10:16
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 451.172 | ug/l | 304909.64 |
| Be | 9 | 45 | 1 | NO GAS | 49.424 | ug/l | 13913.72 |
| B | 11 | 45 | 1 | NO GAS | 48.140 | ug/l | 10068.25 |
| Na | 23 | 45 | 3 | He | 12716.737 | ug/l | 1232014.44 |
| Mg | 24 | 45 | 3 | He | 11838.899 | ug/l | 594422.76 |
| Al | 27 | 45 | 1 | NO GAS | 49.029 | ug/l | 148311.05 |
| Si | 28 | 45 | 2 | H2 | 188.806 | ug/l | 4103.02 |
| K | 39 | 72 | 3 | He | 11193.166 | ug/l | 550023.47 |
| Ca | 40 | 72 | 2 | H2 | 12418.885 | ug/l | 2630695.20 |
| Ti | 47 | 72 | 1 | NO GAS | 46.805 | ug/l | 42949.65 |
| V | 51 | 72 | 1 | NO GAS | 46.486 | ug/l | 657767.67 |
| V | 51 | 72 | 3 | He | 49.358 | ug/l | 70590.84 |
| Cr | 52 | 72 | 1 | NO GAS | 46.963 | ug/l | 633147.15 |
| Cr | 52 | 72 | 3 | He | 49.859 | ug/l | 94199.83 |
| Cr | 53 | 72 | 1 | NO GAS | 41.929 | ug/l | 175600.20 |
| Mn | 55 | 72 | 1 | NO GAS | 47.374 | ug/l | 953788.16 |
| Mn | 55 | 72 | 3 | He | 49.666 | ug/l | 45754.24 |
| Fe | 56 | 72 | 2 | H2 | 1237.376 | ug/l | 1504066.03 |
| Fe | 56 | 72 | 3 | He | 1283.018 | ug/l | 2203633.71 |
| Co | 59 | 72 | 1 | NO GAS | 47.196 | ug/l | 822137.46 |
| Ni | 60 | 72 | 1 | NO GAS | 47.933 | ug/l | 181460.27 |
| Ni | 60 | 72 | 3 | He | 50.448 | ug/l | 58894.94 |
| Ni | 62 | 72 | 1 | NO GAS | 49.748 | ug/l | 29621.02 |
| Cu | 63 | 72 | 1 | NO GAS | 49.114 | ug/l | 472952.62 |
| Cu | 63 | 72 | 3 | He | 50.794 | ug/l | 177636.39 |
| Cu | 65 | 72 | 1 | NO GAS | 49.036 | ug/l | 234277.72 |
| Zn | 66 | 72 | 1 | NO GAS | 47.176 | ug/l | 150130.44 |
| Zn | 66 | 72 | 3 | He | 50.729 | ug/l | 26229.53 |
| As | 75 | 72 | 1 | NO GAS | 48.049 | ug/l | 168963.93 |
| As | 75 | 72 | 3 | He | 50.589 | ug/l | 16986.23 |
| Se | 78 | 72 | 2 | H2 | 53.153 | ug/l | 5926.55 |
| Br | 79 | 72 | 1 | NO GAS | 0.127 | ug/l | 74836.97 |
| Br | 79 | 72 | 2 | H2 | 0.752 | ug/l | 11321.58 |
| Se | 82 | 72 | 1 | NO GAS | 50.054 | ug/l | 14717.73 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 19379.65 |
| Sr | 88 | 72 | 1 | NO GAS | 49.630 | ug/l | 1954347.15 |
| Sr | 88 | 72 | 3 | He | 51.090 | ug/l | 84792.50 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 48.877 | ug/l | 412558.08 |
| Mo | 95 | 72 | 3 | He | 51.069 | ug/l | 139640.11 |
| Mo | 98 | 72 | 1 | NO GAS | 48.087 | ug/l | 694151.92 |
| Ag | 107 | 72 | 1 | NO GAS | 19.906 | ug/l | 477651.92 |
| Ag | 109 | 72 | 1 | NO GAS | 19.923 | ug/l | 470739.59 |
| Cd | 111 | 159 | 1 | NO GAS | 49.145 | ug/l | 280674.73 |
| Cd | 111 | 159 | 3 | He | 50.027 | ug/l | 72275.05 |
| Cd | 114 | 159 | 1 | NO GAS | 48.854 | ug/l | 647450.58 |
| Cd | 114 | 159 | 3 | He | 49.908 | ug/l | 187819.63 |
| Sn | 118 | 159 | 1 | NO GAS | 47.909 | ug/l | 841121.18 |
| Sn | 118 | 159 | 3 | He | 47.208 | ug/l | 131773.09 |
| Sb | 121 | 159 | 1 | NO GAS | 47.520 | ug/l | 1142173.84 |
| Sb | 121 | 159 | 3 | He | 48.569 | ug/l | 172407.93 |
| Sb | 123 | 159 | 1 | NO GAS | 47.248 | ug/l | 901288.39 |
| Sb | 123 | 159 | 3 | He | 48.485 | ug/l | 140451.43 |
| Ba | 135 | 159 | 1 | NO GAS | 49.749 | ug/l | 254650.75 |
| Ba | 137 | 159 | 1 | NO GAS | 47.998 | ug/l | 426337.66 |
| La | 139 | 175 | 1 | NO GAS | 49.300 | ug/l | 4011464.50 |
| La | 139 | 175 | 3 | He | 48.641 | ug/l | 911701.81 |
| Ce | 140 | 175 | 1 | NO GAS | 48.483 | ug/l | 3914568.10 |
| Ce | 140 | 175 | 3 | He | 48.435 | ug/l | 1151630.04 |
| Hg | 201 | 175 | 1 | NO GAS | 1.010 | ug/l | 4089.07 |
| Hg | 202 | 175 | 1 | NO GAS | 0.988 | ug/l | 9228.63 |
| Hg | 202 | 175 | 3 | He | 1.018 | ug/l | 6710.48 |
| Tl | 203 | 175 | 3 | He | 50.978 | ug/l | 698221.12 |
| Tl | 205 | 175 | 1 | NO GAS | 49.620 | ug/l | 3175401.38 |
| Tl | 205 | 175 | 3 | He | 51.899 | ug/l | 1743339.40 |
| [Pb] | 206 | 175 | 1 | NO GAS | 48.979 | ug/l | 1056305.08 |
| [Pb] | 207 | 175 | 1 | NO GAS | 48.462 | ug/l | 906009.11 |
| Pb | 208 | 175 | 1 | NO GAS | 49.469 | ug/l | 4232101.83 |
| Th | 232 | 175 | 3 | He | 51.787 | ug/l | 2537167.25 |
| U | 238 | 175 | 1 | NO GAS | 48.788 | ug/l | 4801283.96 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2018978.14 | 97.0 |
| Sc | 45 | 2 | H2 | 93289.84 | 102.7 |
| Sc | 45 | 3 | He | 58211.24 | 106.0 |
| Ge | 72 | 1 | NO GAS | 930154.06 | 103.8 |
| Ge | 72 | 2 | H2 | 133296.79 | 103.0 |
| Ge | 72 | 3 | He | 90545.24 | 107.4 |
| Tb | 159 | 1 | NO GAS | 18718159.37 | 93.0 |
| Tb | 159 | 3 | He | 7348364.67 | 100.0 |
| Ho | 165 | 1 | NO GAS | 17528716.23 | 93.4 |
| Ho | 165 | 3 | He | 7068048.69 | 97.6 |
| Lu | 175 | 1 | NO GAS | 19390700.02 | 96.9 |
| Lu | 175 | 3 | He | 4305685.59 | 97.6 |

ICPMS206-B Analytical Data

Sample Name 100 PPB STD
File Name 108CAL5.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 05:16:05
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-CAL
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 1069.724 | ug/l | 708297.94 |
| Be | 9 | 45 | 1 | NO GAS | 100.407 | ug/l | 31458.50 |
| B | 11 | 45 | 1 | NO GAS | 101.103 | ug/l | 23178.18 |
| Na | 23 | 45 | 3 | He | 24625.576 | ug/l | 2703618.45 |
| Mg | 24 | 45 | 3 | He | 24392.602 | ug/l | 1392240.20 |
| Al | 27 | 45 | 1 | NO GAS | 100.570 | ug/l | 338126.04 |
| Si | 28 | 45 | 2 | H2 | 410.386 | ug/l | 9422.06 |
| K | 39 | 72 | 3 | He | 24090.864 | ug/l | 1284170.05 |
| Ca | 40 | 72 | 2 | H2 | 23773.835 | ug/l | 5826619.59 |
| Ti | 47 | 72 | 1 | NO GAS | 101.689 | ug/l | 94351.53 |
| V | 51 | 72 | 1 | NO GAS | 101.858 | ug/l | 1488476.59 |
| V | 51 | 72 | 3 | He | 100.349 | ug/l | 155816.61 |
| Cr | 52 | 72 | 1 | NO GAS | 101.614 | ug/l | 1367085.54 |
| Cr | 52 | 72 | 3 | He | 100.082 | ug/l | 205590.81 |
| Cr | 53 | 72 | 1 | NO GAS | 104.789 | ug/l | 244939.56 |
| Mn | 55 | 72 | 1 | NO GAS | 101.420 | ug/l | 2064639.16 |
| Mn | 55 | 72 | 3 | He | 100.189 | ug/l | 100404.51 |
| Fe | 56 | 72 | 2 | H2 | 2339.198 | ug/l | 3286681.57 |
| Fe | 56 | 72 | 3 | He | 2602.129 | ug/l | 4863962.43 |
| Co | 59 | 72 | 1 | NO GAS | 101.460 | ug/l | 1788066.89 |
| Ni | 60 | 72 | 1 | NO GAS | 101.071 | ug/l | 387110.97 |
| Ni | 60 | 72 | 3 | He | 99.739 | ug/l | 126701.32 |
| Ni | 62 | 72 | 1 | NO GAS | 100.188 | ug/l | 59931.52 |
| Cu | 63 | 72 | 1 | NO GAS | 100.452 | ug/l | 978151.50 |
| Cu | 63 | 72 | 3 | He | 99.539 | ug/l | 378642.99 |
| Cu | 65 | 72 | 1 | NO GAS | 100.512 | ug/l | 485668.11 |
| Zn | 66 | 72 | 1 | NO GAS | 101.447 | ug/l | 326276.73 |
| Zn | 66 | 72 | 3 | He | 99.661 | ug/l | 55983.23 |
| As | 75 | 72 | 1 | NO GAS | 101.085 | ug/l | 355288.36 |
| As | 75 | 72 | 3 | He | 99.689 | ug/l | 36420.55 |
| Se | 78 | 72 | 2 | H2 | 98.267 | ug/l | 12662.30 |
| Br | 79 | 72 | 1 | NO GAS | 0.823 | ug/l | 80491.66 |
| Br | 79 | 72 | 2 | H2 | 0.322 | ug/l | 12609.93 |
| Se | 82 | 72 | 1 | NO GAS | 99.979 | ug/l | 29537.88 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 31794.13 |
| Sr | 88 | 72 | 1 | NO GAS | 100.180 | ug/l | 3989793.74 |
| Sr | 88 | 72 | 3 | He | 99.438 | ug/l | 179440.16 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 100.577 | ug/l | 858672.43 |
| Mo | 95 | 72 | 3 | He | 99.406 | ug/l | 295772.33 |
| Mo | 98 | 72 | 1 | NO GAS | 100.985 | ug/l | 1474337.75 |
| Ag | 107 | 72 | 1 | NO GAS | 40.039 | ug/l | 969950.18 |
| Ag | 109 | 72 | 1 | NO GAS | 40.038 | ug/l | 954983.26 |
| Cd | 111 | 159 | 1 | NO GAS | 100.489 | ug/l | 569214.46 |
| Cd | 111 | 159 | 3 | He | 100.022 | ug/l | 145066.31 |
| Cd | 114 | 159 | 1 | NO GAS | 100.638 | ug/l | 1323356.05 |
| Cd | 114 | 159 | 3 | He | 100.080 | ug/l | 378370.17 |
| Sn | 118 | 159 | 1 | NO GAS | 101.354 | ug/l | 1718635.56 |
| Sn | 118 | 159 | 3 | He | 101.680 | ug/l | 276872.66 |
| Sb | 121 | 159 | 1 | NO GAS | 101.340 | ug/l | 2416370.33 |
| Sb | 121 | 159 | 3 | He | 100.763 | ug/l | 359124.80 |
| Sb | 123 | 159 | 1 | NO GAS | 101.478 | ug/l | 1920387.42 |
| Sb | 123 | 159 | 3 | He | 100.802 | ug/l | 293168.93 |
| Ba | 135 | 159 | 1 | NO GAS | 100.199 | ug/l | 509026.77 |
| Ba | 137 | 159 | 1 | NO GAS | 101.046 | ug/l | 890055.94 |
| La | 139 | 175 | 1 | NO GAS | 100.393 | ug/l | 8070390.16 |
| La | 139 | 175 | 3 | He | 100.698 | ug/l | 1946132.31 |
| Ce | 140 | 175 | 1 | NO GAS | 100.828 | ug/l | 8038615.00 |
| Ce | 140 | 175 | 3 | He | 100.780 | ug/l | 2469618.78 |
| Hg | 201 | 175 | 1 | NO GAS | 1.996 | ug/l | 7964.16 |
| Hg | 202 | 175 | 1 | NO GAS | 2.007 | ug/l | 18447.48 |
| Hg | 202 | 175 | 3 | He | 1.990 | ug/l | 13486.27 |
| Tl | 203 | 175 | 3 | He | 99.488 | ug/l | 1404723.43 |
| Tl | 205 | 175 | 1 | NO GAS | 100.261 | ug/l | 6340544.08 |
| Tl | 205 | 175 | 3 | He | 99.029 | ug/l | 3427826.15 |
| [Pb] | 206 | 175 | 1 | NO GAS | 100.546 | ug/l | 2141764.50 |
| [Pb] | 207 | 175 | 1 | NO GAS | 100.832 | ug/l | 1863639.03 |
| Pb | 208 | 175 | 1 | NO GAS | 100.307 | ug/l | 8488818.40 |
| Th | 232 | 175 | 3 | He | 99.117 | ug/l | 5008271.64 |
| U | 238 | 175 | 1 | NO GAS | 100.682 | ug/l | 9795766.44 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2251194.05 | 108.1 |
| Sc | 45 | 2 | H2 | 116064.13 | 127.8 |
| Sc | 45 | 3 | He | 66213.54 | 120.6 |
| Ge | 72 | 1 | NO GAS | 940583.84 | 105.0 |
| Ge | 72 | 2 | H2 | 154064.69 | 119.0 |
| Ge | 72 | 3 | He | 98609.76 | 117.0 |
| Tb | 159 | 1 | NO GAS | 18584674.43 | 92.4 |
| Tb | 159 | 3 | He | 7379678.58 | 100.4 |
| Ho | 165 | 1 | NO GAS | 17290564.54 | 92.1 |
| Ho | 165 | 3 | He | 7338443.86 | 101.3 |
| Lu | 175 | 1 | NO GAS | 19210667.91 | 96.0 |
| Lu | 175 | 3 | He | 4440233.78 | 100.7 |

ICPMS206-B Analytical Data

Sample Name 100 ppb Bromine
File Name 110CAL.S.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 05:27:26
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 2.463 | ug/l | 4239.01 |
| Be | 9 | 45 | 1 | NO GAS | 0.193 | ug/l | 71.99 |
| B | 11 | 45 | 1 | NO GAS | 5.777 | ug/l | 1875.74 |
| Na | 23 | 45 | 3 | He | 39.462 | ug/l | 15940.74 |
| Mg | 24 | 45 | 3 | He | 5.205 | ug/l | 395.89 |
| Al | 27 | 45 | 1 | NO GAS | 9.077 | ug/l | 35467.70 |
| Si | 28 | 45 | 2 | H2 | -65.415 | ug/l | 168.64 |
| K | 39 | 72 | 3 | He | 540.856 | ug/l | 32726.87 |
| Ca | 40 | 72 | 2 | H2 | 8.611 | ug/l | 2975.47 |
| Ti | 47 | 72 | 1 | NO GAS | 0.089 | ug/l | 134.93 |
| V | 51 | 72 | 1 | NO GAS | 1.758 | ug/l | 1515.63 |
| V | 51 | 72 | 3 | He | 0.020 | ug/l | 411.12 |
| Cr | 52 | 72 | 1 | NO GAS | -0.038 | ug/l | 16881.69 |
| Cr | 52 | 72 | 3 | He | 0.145 | ug/l | 462.43 |
| Cr | 53 | 72 | 1 | NO GAS | -55.818 | ug/l | 80133.17 |
| Mn | 55 | 72 | 1 | NO GAS | 0.119 | ug/l | 3899.42 |
| Mn | 55 | 72 | 3 | He | 0.120 | ug/l | 133.68 |
| Fe | 56 | 72 | 2 | H2 | 1.235 | ug/l | 2239.06 |
| Fe | 56 | 72 | 3 | He | 1.153 | ug/l | 2848.85 |
| Co | 59 | 72 | 1 | NO GAS | 0.111 | ug/l | 2219.10 |
| Ni | 60 | 72 | 1 | NO GAS | 0.182 | ug/l | 785.13 |
| Ni | 60 | 72 | 3 | He | 0.213 | ug/l | 314.45 |
| Ni | 62 | 72 | 1 | NO GAS | 0.245 | ug/l | 615.46 |
| Cu | 63 | 72 | 1 | NO GAS | 0.203 | ug/l | 2719.02 |
| Cu | 63 | 72 | 3 | He | 0.196 | ug/l | 978.17 |
| Cu | 65 | 72 | 1 | NO GAS | 0.195 | ug/l | 1307.80 |
| Zn | 66 | 72 | 1 | NO GAS | 0.611 | ug/l | 2541.64 |
| Zn | 66 | 72 | 3 | He | 0.613 | ug/l | 420.01 |
| As | 75 | 72 | 1 | NO GAS | 0.809 | ug/l | 7270.37 |
| As | 75 | 72 | 3 | He | 0.143 | ug/l | 60.99 |
| Se | 78 | 72 | 2 | H2 | 0.209 | ug/l | 33.32 |
| Br | 79 | 72 | 1 | NO GAS | 100.000 | ug/l | 840232.42 |
| Br | 79 | 72 | 2 | H2 | 100.000 | ug/l | 136619.15 |
| Se | 82 | 72 | 1 | NO GAS | 4.274 | ug/l | 1584.40 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8848.23 |
| Sr | 88 | 72 | 1 | NO GAS | 0.099 | ug/l | 4784.60 |
| Sr | 88 | 72 | 3 | He | 0.113 | ug/l | 474.46 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.018 | ug/l | 268.89 |
| Mo | 95 | 72 | 3 | He | 0.015 | ug/l | 93.33 |
| Mo | 98 | 72 | 1 | NO GAS | 0.011 | ug/l | 353.21 |
| Ag | 107 | 72 | 1 | NO GAS | 1.533 | ug/l | 42967.48 |
| Ag | 109 | 72 | 1 | NO GAS | 1.581 | ug/l | 43517.05 |
| Cd | 111 | 159 | 1 | NO GAS | 0.105 | ug/l | 649.79 |
| Cd | 111 | 159 | 3 | He | 0.099 | ug/l | 154.64 |
| Cd | 114 | 159 | 1 | NO GAS | 0.106 | ug/l | 1280.03 |
| Cd | 114 | 159 | 3 | He | 0.107 | ug/l | 399.85 |
| Sn | 118 | 159 | 1 | NO GAS | -2.186 | ug/l | 6824.69 |
| Sn | 118 | 159 | 3 | He | -2.296 | ug/l | 1064.49 |
| Sb | 121 | 159 | 1 | NO GAS | 0.021 | ug/l | 1098.94 |
| Sb | 121 | 159 | 3 | He | 0.021 | ug/l | 157.78 |
| Sb | 123 | 159 | 1 | NO GAS | 0.022 | ug/l | 885.59 |
| Sb | 123 | 159 | 3 | He | 0.030 | ug/l | 143.34 |
| Ba | 135 | 159 | 1 | NO GAS | 0.144 | ug/l | 805.10 |
| Ba | 137 | 159 | 1 | NO GAS | 0.138 | ug/l | 1334.09 |
| La | 139 | 175 | 1 | NO GAS | 0.002 | ug/l | 236.91 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 36.70 |
| Ce | 140 | 175 | 1 | NO GAS | 0.003 | ug/l | 320.33 |
| Ce | 140 | 175 | 3 | He | 0.004 | ug/l | 113.45 |
| Hg | 201 | 175 | 1 | NO GAS | 0.004 | ug/l | 39.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.004 | ug/l | 122.64 |
| Hg | 202 | 175 | 3 | He | 0.004 | ug/l | 68.65 |
| Tl | 203 | 175 | 3 | He | 0.363 | ug/l | 5726.63 |
| Tl | 205 | 175 | 1 | NO GAS | 0.330 | ug/l | 24181.68 |
| Tl | 205 | 175 | 3 | He | 0.359 | ug/l | 13940.34 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.119 | ug/l | 2783.62 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.114 | ug/l | 2316.86 |
| Pb | 208 | 175 | 1 | NO GAS | 0.117 | ug/l | 10904.98 |
| Th | 232 | 175 | 3 | He | 0.296 | ug/l | 16954.97 |
| U | 238 | 175 | 1 | NO GAS | 0.126 | ug/l | 13355.01 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2572099.57 | 123.6 |
| Sc | 45 | 2 | H2 | 123889.40 | 136.4 |
| Sc | 45 | 3 | He | 68062.89 | 123.9 |
| Ge | 72 | 1 | NO GAS | 1035774.36 | 115.6 |
| Ge | 72 | 2 | H2 | 165543.65 | 127.9 |
| Ge | 72 | 3 | He | 100629.48 | 119.4 |
| Tb | 159 | 1 | NO GAS | 19790598.44 | 98.3 |
| Tb | 159 | 3 | He | 7802654.00 | 106.2 |
| Ho | 165 | 1 | NO GAS | 18498642.37 | 98.5 |
| Ho | 165 | 3 | He | 7530503.57 | 104.0 |
| Lu | 175 | 1 | NO GAS | 20575906.01 | 102.8 |
| Lu | 175 | 3 | He | 4609688.43 | 104.5 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 111BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 05:33:14
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 165 | 1 | NO GAS | 0.780 | ug/l | 3103.67 |
| Be | 9 | 45 | 1 | NO GAS | 0.057 | ug/l | 24.00 |
| B | 11 | 45 | 1 | NO GAS | 1.265 | ug/l | 716.54 |
| Na | 23 | 45 | 3 | He | 127.207 | ug/l | 25494.39 |
| Mg | 24 | 45 | 3 | He | 1.046 | ug/l | 149.70 |
| Al | 27 | 45 | 1 | NO GAS | 1.119 | ug/l | 4964.09 |
| Si | 28 | 45 | 2 | H2 | -8.004 | ug/l | 1025.91 |
| K | 39 | 72 | 3 | He | 6.398 | ug/l | 3657.09 |
| Ca | 40 | 72 | 2 | H2 | 2.406 | ug/l | 1229.44 |
| Ti | 47 | 72 | 1 | NO GAS | 0.006 | ug/l | 49.97 |
| V | 51 | 72 | 1 | NO GAS | 1.399 | ug/l | -4482.46 |
| V | 51 | 72 | 3 | He | -0.079 | ug/l | 250.00 |
| Cr | 52 | 72 | 1 | NO GAS | -0.187 | ug/l | 14910.39 |
| Cr | 52 | 72 | 3 | He | 0.011 | ug/l | 179.65 |
| Cr | 53 | 72 | 1 | NO GAS | -58.478 | ug/l | 78340.31 |
| Mn | 55 | 72 | 1 | NO GAS | 0.007 | ug/l | 1413.94 |
| Mn | 55 | 72 | 3 | He | 0.018 | ug/l | 29.33 |
| Fe | 56 | 72 | 2 | H2 | 0.358 | ug/l | 847.95 |
| Fe | 56 | 72 | 3 | He | 0.301 | ug/l | 1206.12 |
| Co | 59 | 72 | 1 | NO GAS | 0.013 | ug/l | 342.66 |
| Ni | 60 | 72 | 1 | NO GAS | 0.030 | ug/l | 143.05 |
| Ni | 60 | 72 | 3 | He | 0.000 | ug/l | 37.78 |
| Ni | 62 | 72 | 1 | NO GAS | 0.168 | ug/l | 578.87 |
| Cu | 63 | 72 | 1 | NO GAS | 0.023 | ug/l | 809.86 |
| Cu | 63 | 72 | 3 | He | 0.017 | ug/l | 279.61 |
| Cu | 65 | 72 | 1 | NO GAS | 0.014 | ug/l | 359.93 |
| Zn | 66 | 72 | 1 | NO GAS | 0.033 | ug/l | 505.49 |
| Zn | 66 | 72 | 3 | He | 0.048 | ug/l | 94.45 |
| As | 75 | 72 | 1 | NO GAS | 0.241 | ug/l | 5157.28 |
| As | 75 | 72 | 3 | He | 0.020 | ug/l | 14.67 |
| Se | 78 | 72 | 2 | H2 | 0.055 | ug/l | 11.33 |
| Br | 79 | 72 | 1 | NO GAS | -1.595 | ug/l | 71505.24 |
| Br | 79 | 72 | 2 | H2 | -0.253 | ug/l | 11814.23 |
| Se | 82 | 72 | 1 | NO GAS | 1.192 | ug/l | 606.85 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 9114.50 |
| Sr | 88 | 72 | 1 | NO GAS | 0.015 | ug/l | 1127.82 |
| Sr | 88 | 72 | 3 | He | 0.020 | ug/l | 298.90 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.007 | ug/l | 174.45 |
| Mo | 95 | 72 | 3 | He | 0.003 | ug/l | 55.56 |
| Mo | 98 | 72 | 1 | NO GAS | 0.004 | ug/l | 251.40 |
| Ag | 107 | 72 | 1 | NO GAS | 0.107 | ug/l | 5074.47 |
| Ag | 109 | 72 | 1 | NO GAS | 0.170 | ug/l | 6559.23 |
| Cd | 111 | 159 | 1 | NO GAS | 0.004 | ug/l | 35.21 |
| Cd | 111 | 159 | 3 | He | 0.020 | ug/l | 33.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.013 | ug/l | -41.94 |
| Cd | 114 | 159 | 3 | He | 0.021 | ug/l | 55.84 |
| Sn | 118 | 159 | 1 | NO GAS | -2.326 | ug/l | 4421.90 |
| Sn | 118 | 159 | 3 | He | -2.424 | ug/l | 696.69 |
| Sb | 121 | 159 | 1 | NO GAS | 0.000 | ug/l | 570.02 |
| Sb | 121 | 159 | 3 | He | 0.013 | ug/l | 125.56 |
| Sb | 123 | 159 | 1 | NO GAS | -0.002 | ug/l | 408.90 |
| Sb | 123 | 159 | 3 | He | -0.001 | ug/l | 47.78 |
| Ba | 135 | 159 | 1 | NO GAS | 0.033 | ug/l | 192.96 |
| Ba | 137 | 159 | 1 | NO GAS | 0.040 | ug/l | 422.50 |
| La | 139 | 175 | 1 | NO GAS | 0.002 | ug/l | 210.22 |
| La | 139 | 175 | 3 | He | 0.004 | ug/l | 86.75 |
| Ce | 140 | 175 | 1 | NO GAS | 0.003 | ug/l | 290.30 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 36.70 |
| Hg | 201 | 175 | 1 | NO GAS | 0.001 | ug/l | 28.33 |
| Hg | 202 | 175 | 1 | NO GAS | 0.001 | ug/l | 86.98 |
| Hg | 202 | 175 | 3 | He | 0.001 | ug/l | 47.32 |
| Tl | 203 | 175 | 3 | He | 0.210 | ug/l | 3576.39 |
| Tl | 205 | 175 | 1 | NO GAS | 0.212 | ug/l | 16106.49 |
| Tl | 205 | 175 | 3 | He | 0.209 | ug/l | 8780.15 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.011 | ug/l | 323.34 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.014 | ug/l | 330.01 |
| Pb | 208 | 175 | 1 | NO GAS | 0.013 | ug/l | 1426.71 |
| Th | 232 | 175 | 3 | He | 0.053 | ug/l | 4337.79 |
| U | 238 | 175 | 1 | NO GAS | 0.016 | ug/l | 1807.75 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2632555.81 | 126.5 |
| Sc | 45 | 2 | H2 | 110032.54 | 121.2 |
| Sc | 45 | 3 | He | 67294.14 | 122.5 |
| Ge | 72 | 1 | NO GAS | 1064867.36 | 118.9 |
| Ge | 72 | 2 | H2 | 155009.15 | 119.7 |
| Ge | 72 | 3 | He | 99063.30 | 117.5 |
| Tb | 159 | 1 | NO GAS | 20303508.63 | 100.9 |
| Tb | 159 | 3 | He | 7679126.72 | 104.5 |
| Ho | 165 | 1 | NO GAS | 19085175.54 | 101.7 |
| Ho | 165 | 3 | He | 7505515.36 | 103.6 |
| Lu | 175 | 1 | NO GAS | 20814109.21 | 104.0 |
| Lu | 175 | 3 | He | 4738398.34 | 107.4 |

ICPMS206-B Analytical Data

Sample Name QCS
File Name 112_QCS.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 05:38:59
Sample Type QCS
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 44.876 | ug/l | 33828.49 |
| Be | 9 | 45 | 1 | NO GAS | 25.036 | ug/l | 8502.37 |
| B | 11 | 45 | 1 | NO GAS | 50.564 | ug/l | 12717.48 |
| Na | 23 | 45 | 3 | He | 2488.573 | ug/l | 285113.46 |
| Mg | 24 | 45 | 3 | He | 2403.282 | ug/l | 138196.50 |
| Al | 27 | 45 | 1 | NO GAS | 254.127 | ug/l | 923837.76 |
| Si | 28 | 45 | 2 | H2 | 565.019 | ug/l | 12573.46 |
| K | 39 | 72 | 3 | He | 2413.248 | ug/l | 133177.19 |
| Ca | 40 | 72 | 2 | H2 | 2600.611 | ug/l | 671005.70 |
| Ti | 47 | 72 | 1 | NO GAS | 48.506 | ug/l | 49863.16 |
| V | 51 | 72 | 1 | NO GAS | 50.084 | ug/l | 796782.13 |
| V | 51 | 72 | 3 | He | 50.671 | ug/l | 79800.15 |
| Cr | 52 | 72 | 1 | NO GAS | 49.480 | ug/l | 746232.65 |
| Cr | 52 | 72 | 3 | He | 51.481 | ug/l | 107071.89 |
| Cr | 53 | 72 | 1 | NO GAS | 19.689 | ug/l | 170213.74 |
| Mn | 55 | 72 | 1 | NO GAS | 254.141 | ug/l | 5727784.47 |
| Mn | 55 | 72 | 3 | He | 256.660 | ug/l | 260203.94 |
| Fe | 56 | 72 | 2 | H2 | 245.295 | ug/l | 363050.92 |
| Fe | 56 | 72 | 3 | He | 256.003 | ug/l | 484527.48 |
| Co | 59 | 72 | 1 | NO GAS | 49.816 | ug/l | 972308.15 |
| Ni | 60 | 72 | 1 | NO GAS | 50.488 | ug/l | 214193.26 |
| Ni | 60 | 72 | 3 | He | 52.862 | ug/l | 67924.51 |
| Ni | 62 | 72 | 1 | NO GAS | 49.565 | ug/l | 33073.96 |
| Cu | 63 | 72 | 1 | NO GAS | 52.021 | ug/l | 561284.35 |
| Cu | 63 | 72 | 3 | He | 54.517 | ug/l | 209874.73 |
| Cu | 65 | 72 | 1 | NO GAS | 52.024 | ug/l | 278544.78 |
| Zn | 66 | 72 | 1 | NO GAS | 50.778 | ug/l | 181075.90 |
| Zn | 66 | 72 | 3 | He | 53.685 | ug/l | 30544.51 |
| As | 75 | 72 | 1 | NO GAS | 49.178 | ug/l | 193596.60 |
| As | 75 | 72 | 3 | He | 50.897 | ug/l | 18814.48 |
| Se | 78 | 72 | 2 | H2 | 52.951 | ug/l | 7177.46 |
| Br | 79 | 72 | 1 | NO GAS | 0.610 | ug/l | 87500.35 |
| Br | 79 | 72 | 2 | H2 | 1.703 | ug/l | 14930.52 |
| Se | 82 | 72 | 1 | NO GAS | 50.284 | ug/l | 16555.81 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 21921.08 |
| Sr | 88 | 72 | 1 | NO GAS | 48.634 | ug/l | 2145212.26 |
| Sr | 88 | 72 | 3 | He | 52.024 | ug/l | 95062.66 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 48.025 | ug/l | 454175.95 |
| Mo | 95 | 72 | 3 | He | 50.785 | ug/l | 152871.30 |
| Mo | 98 | 72 | 1 | NO GAS | 47.094 | ug/l | 761590.13 |
| Ag | 107 | 72 | 1 | NO GAS | 25.237 | ug/l | 677918.64 |
| Ag | 109 | 72 | 1 | NO GAS | 24.919 | ug/l | 659049.83 |
| Cd | 111 | 159 | 1 | NO GAS | 26.010 | ug/l | 157019.20 |
| Cd | 111 | 159 | 3 | He | 27.052 | ug/l | 40201.73 |
| Cd | 114 | 159 | 1 | NO GAS | 26.157 | ug/l | 366166.13 |
| Cd | 114 | 159 | 3 | He | 26.187 | ug/l | 101396.30 |
| Sn | 118 | 159 | 1 | NO GAS | 49.424 | ug/l | 915152.92 |
| Sn | 118 | 159 | 3 | He | 50.581 | ug/l | 144776.60 |
| Sb | 121 | 159 | 1 | NO GAS | 50.260 | ug/l | 1276162.84 |
| Sb | 121 | 159 | 3 | He | 51.913 | ug/l | 189580.05 |
| Sb | 123 | 159 | 1 | NO GAS | 49.678 | ug/l | 1001416.52 |
| Sb | 123 | 159 | 3 | He | 52.102 | ug/l | 155241.09 |
| Ba | 135 | 159 | 1 | NO GAS | 51.256 | ug/l | 277148.08 |
| Ba | 137 | 159 | 1 | NO GAS | 50.369 | ug/l | 472676.67 |
| La | 139 | 175 | 1 | NO GAS | 50.909 | ug/l | 4392384.16 |
| La | 139 | 175 | 3 | He | 51.030 | ug/l | 989039.05 |
| Ce | 140 | 175 | 1 | NO GAS | 50.780 | ug/l | 4347966.56 |
| Ce | 140 | 175 | 3 | He | 52.273 | ug/l | 1284758.44 |
| Hg | 201 | 175 | 1 | NO GAS | 0.979 | ug/l | 4203.41 |
| Hg | 202 | 175 | 1 | NO GAS | 0.984 | ug/l | 9750.18 |
| Hg | 202 | 175 | 3 | He | 1.010 | ug/l | 6882.52 |
| Tl | 203 | 175 | 3 | He | 53.628 | ug/l | 759413.72 |
| Tl | 205 | 175 | 1 | NO GAS | 48.992 | ug/l | 3322779.60 |
| Tl | 205 | 175 | 3 | He | 53.218 | ug/l | 1848238.62 |
| [Pb] | 206 | 175 | 1 | NO GAS | 50.509 | ug/l | 1154374.93 |
| [Pb] | 207 | 175 | 1 | NO GAS | 49.509 | ug/l | 981528.28 |
| Pb | 208 | 175 | 1 | NO GAS | 50.763 | ug/l | 4605994.16 |
| Th | 232 | 175 | 3 | He | 53.131 | ug/l | 2692214.78 |
| U | 238 | 175 | 1 | NO GAS | 52.163 | ug/l | 5447031.62 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2436849.72 | 117.1 |
| Sc | 45 | 2 | H2 | 117413.38 | 129.3 |
| Sc | 45 | 3 | He | 66624.28 | 121.3 |
| Ge | 72 | 1 | NO GAS | 1041647.99 | 116.3 |
| Ge | 72 | 2 | H2 | 162091.94 | 125.2 |
| Ge | 72 | 3 | He | 99674.38 | 118.2 |
| Tb | 159 | 1 | NO GAS | 19775924.81 | 98.3 |
| Tb | 159 | 3 | He | 7556990.16 | 102.9 |
| Ho | 165 | 1 | NO GAS | 18262726.46 | 97.3 |
| Ho | 165 | 3 | He | 7345086.49 | 101.4 |
| Lu | 175 | 1 | NO GAS | 20546087.86 | 102.7 |
| Lu | 175 | 3 | He | 4453170.20 | 101.0 |

ICPMS206-B Analytical Data

Sample Name ICSA
File Name 113ICSA.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 05:44:41
Sample Type ICSA
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|--------------|
| Li | 7 | 165 | 1 | NO GAS | -0.180 | ug/l | 2365.70 |
| Be | 9 | 45 | 1 | NO GAS | 0.017 | ug/l | 7.67 |
| B | 11 | 45 | 1 | NO GAS | 0.605 | ug/l | 481.25 |
| Na | 23 | 45 | 3 | He | 96156.145 | ug/l | 8525205.22 |
| Mg | 24 | 45 | 3 | He | 38617.401 | ug/l | 1785609.91 |
| Al | 27 | 45 | 1 | NO GAS | 36345.365 | ug/l | 125167278.14 |
| Si | 28 | 45 | 2 | H2 | -66.447 | ug/l | 108.65 |
| K | 39 | 72 | 3 | He | 35298.623 | ug/l | 1652284.21 |
| Ca | 40 | 72 | 2 | H2 | 106618.250 | ug/l | 23498382.85 |
| Ti | 47 | 72 | 1 | NO GAS | 788.404 | ug/l | 750123.51 |
| V | 51 | 72 | 1 | NO GAS | 1.080 | ug/l | -8868.45 |
| V | 51 | 72 | 3 | He | -0.162 | ug/l | 105.56 |
| Cr | 52 | 72 | 1 | NO GAS | 0.653 | ug/l | 25159.05 |
| Cr | 52 | 72 | 3 | He | 0.871 | ug/l | 1706.72 |
| Cr | 53 | 72 | 1 | NO GAS | -79.782 | ug/l | 48291.26 |
| Mn | 55 | 72 | 1 | NO GAS | 0.181 | ug/l | 4924.35 |
| Mn | 55 | 72 | 3 | He | 0.198 | ug/l | 184.02 |
| Fe | 56 | 72 | 2 | H2 | 90797.874 | ug/l | 114607886.92 |
| Fe | 56 | 72 | 3 | He | 94804.754 | ug/l | 155645931.66 |
| Co | 59 | 72 | 1 | NO GAS | 0.353 | ug/l | 6445.15 |
| Ni | 60 | 72 | 1 | NO GAS | 1.355 | ug/l | 5343.65 |
| Ni | 60 | 72 | 3 | He | 0.170 | ug/l | 223.34 |
| Ni | 62 | 72 | 1 | NO GAS | 3.012 | ug/l | 2259.02 |
| Cu | 63 | 72 | 1 | NO GAS | 1.438 | ug/l | 14861.63 |
| Cu | 63 | 72 | 3 | He | 0.023 | ug/l | 266.95 |
| Cu | 65 | 72 | 1 | NO GAS | 0.491 | ug/l | 2685.02 |
| Zn | 66 | 72 | 1 | NO GAS | 0.757 | ug/l | 2844.97 |
| Zn | 66 | 72 | 3 | He | 0.454 | ug/l | 283.34 |
| As | 75 | 72 | 1 | NO GAS | -0.033 | ug/l | 3787.74 |
| As | 75 | 72 | 3 | He | 0.069 | ug/l | 28.66 |
| Se | 78 | 72 | 2 | H2 | 0.139 | ug/l | 19.67 |
| Br | 79 | 72 | 1 | NO GAS | 0.396 | ug/l | 79548.22 |
| Br | 79 | 72 | 2 | H2 | 0.644 | ug/l | 11667.75 |
| Se | 82 | 72 | 1 | NO GAS | 1.174 | ug/l | 546.30 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8751.72 |
| Sr | 88 | 72 | 1 | NO GAS | 1.214 | ug/l | 50023.28 |
| Sr | 88 | 72 | 3 | He | 1.309 | ug/l | 2300.18 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 771.166 | ug/l | 6754848.79 |
| Mo | 95 | 72 | 3 | He | 821.142 | ug/l | 2145745.84 |
| Mo | 98 | 72 | 1 | NO GAS | 768.894 | ug/l | 11515789.28 |
| Ag | 107 | 72 | 1 | NO GAS | 0.023 | ug/l | 2563.70 |
| Ag | 109 | 72 | 1 | NO GAS | 0.058 | ug/l | 3290.79 |
| Cd | 111 | 159 | 1 | NO GAS | 0.030 | ug/l | 190.74 |
| Cd | 111 | 159 | 3 | He | 0.198 | ug/l | 274.62 |
| Cd | 114 | 159 | 1 | NO GAS | 0.081 | ug/l | 918.41 |
| Cd | 114 | 159 | 3 | He | 0.153 | ug/l | 521.53 |
| Sn | 118 | 159 | 1 | NO GAS | -2.146 | ug/l | 7420.40 |
| Sn | 118 | 159 | 3 | He | -2.207 | ug/l | 1174.50 |
| Sb | 121 | 159 | 1 | NO GAS | 0.055 | ug/l | 1921.25 |
| Sb | 121 | 159 | 3 | He | 0.038 | ug/l | 198.89 |
| Sb | 123 | 159 | 1 | NO GAS | 0.050 | ug/l | 1433.41 |
| Sb | 123 | 159 | 3 | He | 0.058 | ug/l | 206.67 |
| Ba | 135 | 159 | 1 | NO GAS | 0.058 | ug/l | 332.68 |
| Ba | 137 | 159 | 1 | NO GAS | 0.070 | ug/l | 691.98 |
| La | 139 | 175 | 1 | NO GAS | 0.010 | ug/l | 897.62 |
| La | 139 | 175 | 3 | He | 0.010 | ug/l | 200.21 |
| Ce | 140 | 175 | 1 | NO GAS | 0.003 | ug/l | 323.67 |
| Ce | 140 | 175 | 3 | He | 0.005 | ug/l | 123.46 |
| Hg | 201 | 175 | 1 | NO GAS | 0.006 | ug/l | 45.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.005 | ug/l | 125.65 |
| Hg | 202 | 175 | 3 | He | 0.004 | ug/l | 64.66 |
| Tl | 203 | 175 | 3 | He | 0.177 | ug/l | 2809.71 |
| Tl | 205 | 175 | 1 | NO GAS | 0.160 | ug/l | 12370.68 |
| Tl | 205 | 175 | 3 | He | 0.174 | ug/l | 6839.54 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.019 | ug/l | 490.01 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.018 | ug/l | 414.46 |
| Pb | 208 | 175 | 1 | NO GAS | 0.019 | ug/l | 1963.41 |
| Th | 232 | 175 | 3 | He | 0.157 | ug/l | 9044.96 |
| U | 238 | 175 | 1 | NO GAS | 0.006 | ug/l | 830.86 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2306357.16 | 110.8 |
| Sc | 45 | 2 | H2 | 90397.68 | 99.5 |
| Sc | 45 | 3 | He | 53622.41 | 97.6 |
| Ge | 72 | 1 | NO GAS | 964924.16 | 107.7 |
| Ge | 72 | 2 | H2 | 138496.87 | 107.0 |
| Ge | 72 | 3 | He | 86551.29 | 102.7 |
| Tb | 159 | 1 | NO GAS | 19488014.41 | 96.8 |
| Tb | 159 | 3 | He | 6967589.06 | 94.8 |
| Ho | 165 | 1 | NO GAS | 18458253.85 | 98.3 |
| Ho | 165 | 3 | He | 6850327.12 | 94.6 |
| Lu | 175 | 1 | NO GAS | 20187537.24 | 100.9 |
| Lu | 175 | 3 | He | 4314301.60 | 97.8 |

ICPMS206-B Analytical Data

Sample Name ICSAB
File Name 114ICSB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 05:50:25
Sample Type ICSB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 165 | 1 | NO GAS | -0.591 | ug/l | 1993.73 |
| Be | 9 | 45 | 1 | NO GAS | 0.022 | ug/l | 8.00 |
| B | 11 | 45 | 1 | NO GAS | -0.295 | ug/l | 237.29 |
| Na | 23 | 45 | 3 | He | 92370.567 | ug/l | 7328518.71 |
| Mg | 24 | 45 | 3 | He | 35999.423 | ug/l | 1489694.49 |
| Al | 27 | 45 | 1 | NO GAS | 34292.967 | ug/l | 102820764.03 |
| Si | 28 | 45 | 2 | H2 | -65.945 | ug/l | 92.65 |
| K | 39 | 72 | 3 | He | 32991.151 | ug/l | 1417966.26 |
| Ca | 40 | 72 | 2 | H2 | 96843.091 | ug/l | 18546511.03 |
| Ti | 47 | 72 | 1 | NO GAS | 726.812 | ug/l | 648337.60 |
| V | 51 | 72 | 1 | NO GAS | 18.311 | ug/l | 237950.69 |
| V | 51 | 72 | 3 | He | 18.545 | ug/l | 23477.45 |
| Cr | 52 | 72 | 1 | NO GAS | 18.479 | ug/l | 251716.59 |
| Cr | 52 | 72 | 3 | He | 20.194 | ug/l | 33566.76 |
| Cr | 53 | 72 | 1 | NO GAS | -57.552 | ug/l | 68246.55 |
| Mn | 55 | 72 | 1 | NO GAS | 18.438 | ug/l | 361940.12 |
| Mn | 55 | 72 | 3 | He | 19.144 | ug/l | 15484.93 |
| Fe | 56 | 72 | 2 | H2 | 86805.917 | ug/l | 95215723.67 |
| Fe | 56 | 72 | 3 | He | 96300.033 | ug/l | 145176515.84 |
| Co | 59 | 72 | 1 | NO GAS | 18.925 | ug/l | 320813.22 |
| Ni | 60 | 72 | 1 | NO GAS | 19.620 | ug/l | 72294.96 |
| Ni | 60 | 72 | 3 | He | 19.861 | ug/l | 20371.25 |
| Ni | 62 | 72 | 1 | NO GAS | 21.397 | ug/l | 12633.16 |
| Cu | 63 | 72 | 1 | NO GAS | 19.978 | ug/l | 187554.87 |
| Cu | 63 | 72 | 3 | He | 19.511 | ug/l | 60007.26 |
| Cu | 65 | 72 | 1 | NO GAS | 18.966 | ug/l | 88347.64 |
| Zn | 66 | 72 | 1 | NO GAS | 9.807 | ug/l | 30643.96 |
| Zn | 66 | 72 | 3 | He | 10.107 | ug/l | 4630.67 |
| As | 75 | 72 | 1 | NO GAS | 9.844 | ug/l | 36592.89 |
| As | 75 | 72 | 3 | He | 10.422 | ug/l | 3076.67 |
| Se | 78 | 72 | 2 | H2 | 10.980 | ug/l | 1108.15 |
| Br | 79 | 72 | 1 | NO GAS | 0.891 | ug/l | 77876.88 |
| Br | 79 | 72 | 2 | H2 | 2.132 | ug/l | 11487.95 |
| Se | 82 | 72 | 1 | NO GAS | 10.788 | ug/l | 3230.82 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8581.93 |
| Sr | 88 | 72 | 1 | NO GAS | 1.226 | ug/l | 47364.08 |
| Sr | 88 | 72 | 3 | He | 1.322 | ug/l | 2131.27 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 795.754 | ug/l | 6535239.69 |
| Mo | 95 | 72 | 3 | He | 868.529 | ug/l | 2084264.62 |
| Mo | 98 | 72 | 1 | NO GAS | 791.217 | ug/l | 11114305.05 |
| Ag | 107 | 72 | 1 | NO GAS | 4.910 | ug/l | 116051.60 |
| Ag | 109 | 72 | 1 | NO GAS | 4.843 | ug/l | 112681.05 |
| Cd | 111 | 159 | 1 | NO GAS | 9.217 | ug/l | 53893.65 |
| Cd | 111 | 159 | 3 | He | 9.732 | ug/l | 12844.55 |
| Cd | 114 | 159 | 1 | NO GAS | 9.263 | ug/l | 125467.00 |
| Cd | 114 | 159 | 3 | He | 9.569 | ug/l | 32888.15 |
| Sn | 118 | 159 | 1 | NO GAS | -2.154 | ug/l | 7147.48 |
| Sn | 118 | 159 | 3 | He | -2.206 | ug/l | 1133.38 |
| Sb | 121 | 159 | 1 | NO GAS | 0.013 | ug/l | 863.36 |
| Sb | 121 | 159 | 3 | He | 0.020 | ug/l | 133.34 |
| Sb | 123 | 159 | 1 | NO GAS | 0.016 | ug/l | 741.14 |
| Sb | 123 | 159 | 3 | He | 0.030 | ug/l | 124.45 |
| Ba | 135 | 159 | 1 | NO GAS | 0.068 | ug/l | 379.26 |
| Ba | 137 | 159 | 1 | NO GAS | 0.069 | ug/l | 665.37 |
| La | 139 | 175 | 1 | NO GAS | 0.009 | ug/l | 774.14 |
| La | 139 | 175 | 3 | He | 0.009 | ug/l | 170.18 |
| Ce | 140 | 175 | 1 | NO GAS | 0.003 | ug/l | 300.31 |
| Ce | 140 | 175 | 3 | He | 0.004 | ug/l | 110.11 |
| Hg | 201 | 175 | 1 | NO GAS | 0.001 | ug/l | 26.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.002 | ug/l | 97.65 |
| Hg | 202 | 175 | 3 | He | 0.003 | ug/l | 51.66 |
| Tl | 203 | 175 | 3 | He | 0.143 | ug/l | 2235.73 |
| Tl | 205 | 175 | 1 | NO GAS | 0.141 | ug/l | 10848.40 |
| Tl | 205 | 175 | 3 | He | 0.138 | ug/l | 5346.57 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.019 | ug/l | 474.46 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.019 | ug/l | 410.01 |
| Pb | 208 | 175 | 1 | NO GAS | 0.019 | ug/l | 1886.73 |
| Th | 232 | 175 | 3 | He | 0.086 | ug/l | 5312.58 |
| U | 238 | 175 | 1 | NO GAS | 0.002 | ug/l | 385.60 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2008179.97 | 96.5 |
| Sc | 45 | 2 | H2 | 72539.00 | 79.9 |
| Sc | 45 | 3 | He | 47980.30 | 87.4 |
| Ge | 72 | 1 | NO GAS | 905190.47 | 101.0 |
| Ge | 72 | 2 | H2 | 120344.68 | 92.9 |
| Ge | 72 | 3 | He | 79484.66 | 94.3 |
| Tb | 159 | 1 | NO GAS | 19147312.26 | 95.2 |
| Tb | 159 | 3 | He | 6711538.33 | 91.4 |
| Ho | 165 | 1 | NO GAS | 17747591.55 | 94.5 |
| Ho | 165 | 3 | He | 6647417.24 | 91.8 |
| Lu | 175 | 1 | NO GAS | 19685215.77 | 98.4 |
| Lu | 175 | 3 | He | 4107604.26 | 93.1 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 115BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 05:56:09
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -0.826 | ug/l | 2007.72 |
| Be | 9 | 45 | 1 | NO GAS | 0.062 | ug/l | 19.67 |
| B | 11 | 45 | 1 | NO GAS | -0.305 | ug/l | 241.29 |
| Na | 23 | 45 | 3 | He | 28.610 | ug/l | 11563.92 |
| Mg | 24 | 45 | 3 | He | 4.160 | ug/l | 262.82 |
| Al | 27 | 45 | 1 | NO GAS | 0.805 | ug/l | 3019.17 |
| Si | 28 | 45 | 2 | H2 | -64.750 | ug/l | 126.64 |
| K | 39 | 72 | 3 | He | 8.039 | ug/l | 3270.89 |
| Ca | 40 | 72 | 2 | H2 | 7.477 | ug/l | 2165.75 |
| Ti | 47 | 72 | 1 | NO GAS | 0.059 | ug/l | 98.29 |
| V | 51 | 72 | 1 | NO GAS | 0.853 | ug/l | -12449.38 |
| V | 51 | 72 | 3 | He | -0.090 | ug/l | 203.34 |
| Cr | 52 | 72 | 1 | NO GAS | -0.567 | ug/l | 8591.90 |
| Cr | 52 | 72 | 3 | He | 0.060 | ug/l | 246.18 |
| Cr | 53 | 72 | 1 | NO GAS | -90.580 | ug/l | 36781.57 |
| Mn | 55 | 72 | 1 | NO GAS | 0.068 | ug/l | 2598.40 |
| Mn | 55 | 72 | 3 | He | 0.080 | ug/l | 79.68 |
| Fe | 56 | 72 | 2 | H2 | 2.587 | ug/l | 3455.34 |
| Fe | 56 | 72 | 3 | He | 2.880 | ug/l | 5293.24 |
| Co | 59 | 72 | 1 | NO GAS | 0.052 | ug/l | 1011.36 |
| Ni | 60 | 72 | 1 | NO GAS | 0.067 | ug/l | 286.10 |
| Ni | 60 | 72 | 3 | He | 0.044 | ug/l | 82.22 |
| Ni | 62 | 72 | 1 | NO GAS | 0.091 | ug/l | 482.39 |
| Cu | 63 | 72 | 1 | NO GAS | 0.061 | ug/l | 1121.82 |
| Cu | 63 | 72 | 3 | He | 0.059 | ug/l | 384.93 |
| Cu | 65 | 72 | 1 | NO GAS | 0.056 | ug/l | 537.90 |
| Zn | 66 | 72 | 1 | NO GAS | 0.025 | ug/l | 439.06 |
| Zn | 66 | 72 | 3 | He | 0.082 | ug/l | 100.00 |
| As | 75 | 72 | 1 | NO GAS | -0.121 | ug/l | 3516.09 |
| As | 75 | 72 | 3 | He | 0.045 | ug/l | 21.00 |
| Se | 78 | 72 | 2 | H2 | 0.079 | ug/l | 12.33 |
| Br | 79 | 72 | 1 | NO GAS | -0.242 | ug/l | 75768.48 |
| Br | 79 | 72 | 2 | H2 | 0.357 | ug/l | 10998.60 |
| Se | 82 | 72 | 1 | NO GAS | 1.548 | ug/l | 670.72 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8541.98 |
| Sr | 88 | 72 | 1 | NO GAS | 0.061 | ug/l | 2937.81 |
| Sr | 88 | 72 | 3 | He | 0.067 | ug/l | 336.67 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.103 | ug/l | 1008.93 |
| Mo | 95 | 72 | 3 | He | 0.121 | ug/l | 354.45 |
| Mo | 98 | 72 | 1 | NO GAS | 0.104 | ug/l | 1731.57 |
| Ag | 107 | 72 | 1 | NO GAS | 0.028 | ug/l | 2696.36 |
| Ag | 109 | 72 | 1 | NO GAS | 0.031 | ug/l | 2656.37 |
| Cd | 111 | 159 | 1 | NO GAS | 0.054 | ug/l | 360.21 |
| Cd | 111 | 159 | 3 | He | 0.068 | ug/l | 103.31 |
| Cd | 114 | 159 | 1 | NO GAS | 0.057 | ug/l | 627.79 |
| Cd | 114 | 159 | 3 | He | 0.067 | ug/l | 228.72 |
| Sn | 118 | 159 | 1 | NO GAS | -2.373 | ug/l | 3749.71 |
| Sn | 118 | 159 | 3 | He | -2.457 | ug/l | 588.90 |
| Sb | 121 | 159 | 1 | NO GAS | 0.004 | ug/l | 700.02 |
| Sb | 121 | 159 | 3 | He | 0.006 | ug/l | 97.78 |
| Sb | 123 | 159 | 1 | NO GAS | 0.011 | ug/l | 698.91 |
| Sb | 123 | 159 | 3 | He | 0.008 | ug/l | 74.44 |
| Ba | 135 | 159 | 1 | NO GAS | 0.063 | ug/l | 382.58 |
| Ba | 137 | 159 | 1 | NO GAS | 0.071 | ug/l | 748.54 |
| La | 139 | 175 | 1 | NO GAS | 0.010 | ug/l | 977.70 |
| La | 139 | 175 | 3 | He | 0.011 | ug/l | 220.23 |
| Ce | 140 | 175 | 1 | NO GAS | 0.011 | ug/l | 1057.79 |
| Ce | 140 | 175 | 3 | He | 0.011 | ug/l | 280.29 |
| Hg | 201 | 175 | 1 | NO GAS | 0.000 | ug/l | 22.67 |
| Hg | 202 | 175 | 1 | NO GAS | 0.001 | ug/l | 94.98 |
| Hg | 202 | 175 | 3 | He | 0.001 | ug/l | 45.99 |
| Tl | 203 | 175 | 3 | He | 0.169 | ug/l | 2751.05 |
| Tl | 205 | 175 | 1 | NO GAS | 0.167 | ug/l | 13531.71 |
| Tl | 205 | 175 | 3 | He | 0.178 | ug/l | 7093.59 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.056 | ug/l | 1393.41 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.055 | ug/l | 1187.84 |
| Pb | 208 | 175 | 1 | NO GAS | 0.058 | ug/l | 5694.94 |
| Th | 232 | 175 | 3 | He | 0.050 | ug/l | 3855.74 |
| U | 238 | 175 | 1 | NO GAS | 0.051 | ug/l | 5733.97 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2064322.18 | 99.2 |
| Sc | 45 | 2 | H2 | 85648.32 | 94.3 |
| Sc | 45 | 3 | He | 53468.76 | 97.4 |
| Ge | 72 | 1 | NO GAS | 974543.58 | 108.8 |
| Ge | 72 | 2 | H2 | 133775.58 | 103.3 |
| Ge | 72 | 3 | He | 86600.85 | 102.7 |
| Tb | 159 | 1 | NO GAS | 21053830.80 | 104.6 |
| Tb | 159 | 3 | He | 7496557.07 | 102.0 |
| Ho | 165 | 1 | NO GAS | 19418284.68 | 103.4 |
| Ho | 165 | 3 | He | 7207185.00 | 99.5 |
| Lu | 175 | 1 | NO GAS | 21337327.62 | 106.6 |
| Lu | 175 | 3 | He | 4404643.34 | 99.9 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 116_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 06:01:53
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 368.093 | ug/l | 267676.04 |
| Be | 9 | 45 | 1 | NO GAS | 41.028 | ug/l | 12192.79 |
| B | 11 | 45 | 1 | NO GAS | 40.326 | ug/l | 8946.55 |
| Na | 23 | 45 | 3 | He | 11791.071 | ug/l | 1074511.18 |
| Mg | 24 | 45 | 3 | He | 10898.707 | ug/l | 514214.72 |
| Al | 27 | 45 | 1 | NO GAS | 45.228 | ug/l | 144485.72 |
| Si | 28 | 45 | 2 | H2 | 179.543 | ug/l | 3671.01 |
| K | 39 | 72 | 3 | He | 10640.166 | ug/l | 509929.67 |
| Ca | 40 | 72 | 2 | H2 | 11070.885 | ug/l | 2350649.69 |
| Ti | 47 | 72 | 1 | NO GAS | 46.426 | ug/l | 44561.36 |
| V | 51 | 72 | 1 | NO GAS | 43.312 | ug/l | 638944.54 |
| V | 51 | 72 | 3 | He | 48.603 | ug/l | 67790.13 |
| Cr | 52 | 72 | 1 | NO GAS | 44.496 | ug/l | 628358.33 |
| Cr | 52 | 72 | 3 | He | 50.991 | ug/l | 93913.40 |
| Cr | 53 | 72 | 1 | NO GAS | 0.920 | ug/l | 138148.85 |
| Mn | 55 | 72 | 1 | NO GAS | 46.647 | ug/l | 982378.01 |
| Mn | 55 | 72 | 3 | He | 48.647 | ug/l | 43686.94 |
| Fe | 56 | 72 | 2 | H2 | 1168.175 | ug/l | 1421163.57 |
| Fe | 56 | 72 | 3 | He | 1256.420 | ug/l | 2104040.61 |
| Co | 59 | 72 | 1 | NO GAS | 47.173 | ug/l | 859121.29 |
| Ni | 60 | 72 | 1 | NO GAS | 48.176 | ug/l | 190595.55 |
| Ni | 60 | 72 | 3 | He | 51.921 | ug/l | 59090.91 |
| Ni | 62 | 72 | 1 | NO GAS | 49.387 | ug/l | 30744.04 |
| Cu | 63 | 72 | 1 | NO GAS | 49.788 | ug/l | 501218.51 |
| Cu | 63 | 72 | 3 | He | 52.471 | ug/l | 178902.17 |
| Cu | 65 | 72 | 1 | NO GAS | 49.019 | ug/l | 244908.87 |
| Zn | 66 | 72 | 1 | NO GAS | 47.023 | ug/l | 156321.57 |
| Zn | 66 | 72 | 3 | He | 51.901 | ug/l | 26153.77 |
| As | 75 | 72 | 1 | NO GAS | 49.013 | ug/l | 180088.84 |
| As | 75 | 72 | 3 | He | 51.654 | ug/l | 16908.16 |
| Se | 78 | 72 | 2 | H2 | 54.460 | ug/l | 6076.24 |
| Br | 79 | 72 | 1 | NO GAS | 0.943 | ug/l | 84011.42 |
| Br | 79 | 72 | 2 | H2 | 1.187 | ug/l | 11780.91 |
| Se | 82 | 72 | 1 | NO GAS | 52.624 | ug/l | 16169.45 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 21381.53 |
| Sr | 88 | 72 | 1 | NO GAS | 51.303 | ug/l | 2111947.75 |
| Sr | 88 | 72 | 3 | He | 52.297 | ug/l | 84631.51 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 50.254 | ug/l | 443335.22 |
| Mo | 95 | 72 | 3 | He | 52.617 | ug/l | 140267.89 |
| Mo | 98 | 72 | 1 | NO GAS | 49.219 | ug/l | 742624.08 |
| Ag | 107 | 72 | 1 | NO GAS | 20.381 | ug/l | 511164.56 |
| Ag | 109 | 72 | 1 | NO GAS | 20.120 | ug/l | 496773.73 |
| Cd | 111 | 159 | 1 | NO GAS | 48.689 | ug/l | 301104.44 |
| Cd | 111 | 159 | 3 | He | 49.586 | ug/l | 71966.90 |
| Cd | 114 | 159 | 1 | NO GAS | 48.231 | ug/l | 691884.16 |
| Cd | 114 | 159 | 3 | He | 48.958 | ug/l | 185211.91 |
| Sn | 118 | 159 | 1 | NO GAS | 46.993 | ug/l | 894225.65 |
| Sn | 118 | 159 | 3 | He | 48.149 | ug/l | 134933.59 |
| Sb | 121 | 159 | 1 | NO GAS | 47.471 | ug/l | 1234731.39 |
| Sb | 121 | 159 | 3 | He | 47.794 | ug/l | 170555.27 |
| Sb | 123 | 159 | 1 | NO GAS | 46.009 | ug/l | 949782.17 |
| Sb | 123 | 159 | 3 | He | 49.000 | ug/l | 142658.60 |
| Ba | 135 | 159 | 1 | NO GAS | 48.700 | ug/l | 269833.46 |
| Ba | 137 | 159 | 1 | NO GAS | 48.136 | ug/l | 462708.49 |
| La | 139 | 175 | 1 | NO GAS | 49.991 | ug/l | 4334458.21 |
| La | 139 | 175 | 3 | He | 49.303 | ug/l | 935999.84 |
| Ce | 140 | 175 | 1 | NO GAS | 49.569 | ug/l | 4267347.30 |
| Ce | 140 | 175 | 3 | He | 48.775 | ug/l | 1173988.03 |
| Hg | 201 | 175 | 1 | NO GAS | 0.989 | ug/l | 4271.75 |
| Hg | 202 | 175 | 1 | NO GAS | 0.957 | ug/l | 9527.75 |
| Hg | 202 | 175 | 3 | He | 1.007 | ug/l | 6721.15 |
| Tl | 203 | 175 | 3 | He | 50.799 | ug/l | 704519.78 |
| Tl | 205 | 175 | 1 | NO GAS | 47.953 | ug/l | 3269685.47 |
| Tl | 205 | 175 | 3 | He | 50.754 | ug/l | 1725656.23 |
| [Pb] | 206 | 175 | 1 | NO GAS | 47.938 | ug/l | 1101555.30 |
| [Pb] | 207 | 175 | 1 | NO GAS | 48.050 | ug/l | 957643.58 |
| Pb | 208 | 175 | 1 | NO GAS | 48.307 | ug/l | 4406656.74 |
| Th | 232 | 175 | 3 | He | 51.321 | ug/l | 2547425.12 |
| U | 238 | 175 | 1 | NO GAS | 47.864 | ug/l | 5020567.68 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2132670.39 | 102.4 |
| Sc | 45 | 2 | H2 | 86511.79 | 95.3 |
| Sc | 45 | 3 | He | 54705.69 | 99.6 |
| Ge | 72 | 1 | NO GAS | 973025.35 | 108.6 |
| Ge | 72 | 2 | H2 | 133401.70 | 103.0 |
| Ge | 72 | 3 | He | 88269.26 | 104.7 |
| Tb | 159 | 1 | NO GAS | 20253123.87 | 100.6 |
| Tb | 159 | 3 | He | 7384896.41 | 100.5 |
| Ho | 165 | 1 | NO GAS | 18864040.46 | 100.5 |
| Ho | 165 | 3 | He | 7037433.12 | 97.2 |
| Lu | 175 | 1 | NO GAS | 20665335.86 | 103.3 |
| Lu | 175 | 3 | He | 4360475.84 | 98.8 |

ICPMS206-B Analytical Data

Sample Name CCB
File Name 117_CCB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 06:07:35
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -0.797 | ug/l | 1907.73 |
| Be | 9 | 45 | 1 | NO GAS | 0.026 | ug/l | 9.00 |
| B | 11 | 45 | 1 | NO GAS | -0.106 | ug/l | 271.28 |
| Na | 23 | 45 | 3 | He | -12.140 | ug/l | 7757.34 |
| Mg | 24 | 45 | 3 | He | -0.571 | ug/l | 43.25 |
| Al | 27 | 45 | 1 | NO GAS | 0.173 | ug/l | 1040.04 |
| Si | 28 | 45 | 2 | H2 | -69.688 | ug/l | 52.66 |
| K | 39 | 72 | 3 | He | 1.241 | ug/l | 2876.93 |
| Ca | 40 | 72 | 2 | H2 | 0.366 | ug/l | 626.37 |
| Ti | 47 | 72 | 1 | NO GAS | 0.005 | ug/l | 44.98 |
| V | 51 | 72 | 1 | NO GAS | 0.865 | ug/l | -11798.26 |
| V | 51 | 72 | 3 | He | -0.117 | ug/l | 163.33 |
| Cr | 52 | 72 | 1 | NO GAS | -0.370 | ug/l | 10948.59 |
| Cr | 52 | 72 | 3 | He | 0.013 | ug/l | 156.36 |
| Cr | 53 | 72 | 1 | NO GAS | -65.606 | ug/l | 62433.02 |
| Mn | 55 | 72 | 1 | NO GAS | -0.006 | ug/l | 988.08 |
| Mn | 55 | 72 | 3 | He | -0.002 | ug/l | 7.33 |
| Fe | 56 | 72 | 2 | H2 | 0.889 | ug/l | 1347.74 |
| Fe | 56 | 72 | 3 | He | 0.843 | ug/l | 1894.18 |
| Co | 59 | 72 | 1 | NO GAS | 0.002 | ug/l | 103.13 |
| Ni | 60 | 72 | 1 | NO GAS | 0.012 | ug/l | 63.21 |
| Ni | 60 | 72 | 3 | He | -0.018 | ug/l | 12.22 |
| Ni | 62 | 72 | 1 | NO GAS | -0.046 | ug/l | 385.91 |
| Cu | 63 | 72 | 1 | NO GAS | 0.003 | ug/l | 523.91 |
| Cu | 63 | 72 | 3 | He | 0.000 | ug/l | 185.63 |
| Cu | 65 | 72 | 1 | NO GAS | 0.004 | ug/l | 267.28 |
| Zn | 66 | 72 | 1 | NO GAS | -0.024 | ug/l | 266.01 |
| Zn | 66 | 72 | 3 | He | -0.005 | ug/l | 55.56 |
| As | 75 | 72 | 1 | NO GAS | 0.262 | ug/l | 4733.33 |
| As | 75 | 72 | 3 | He | 0.002 | ug/l | 7.00 |
| Se | 78 | 72 | 2 | H2 | 0.053 | ug/l | 9.00 |
| Br | 79 | 72 | 1 | NO GAS | -0.346 | ug/l | 72637.93 |
| Br | 79 | 72 | 2 | H2 | 0.292 | ug/l | 10559.19 |
| Se | 82 | 72 | 1 | NO GAS | 1.417 | ug/l | 607.50 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8482.02 |
| Sr | 88 | 72 | 1 | NO GAS | 0.002 | ug/l | 482.39 |
| Sr | 88 | 72 | 3 | He | 0.006 | ug/l | 233.34 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.022 | ug/l | 281.12 |
| Mo | 95 | 72 | 3 | He | 0.028 | ug/l | 110.00 |
| Mo | 98 | 72 | 1 | NO GAS | 0.020 | ug/l | 458.84 |
| Ag | 107 | 72 | 1 | NO GAS | 0.009 | ug/l | 2147.72 |
| Ag | 109 | 72 | 1 | NO GAS | 0.011 | ug/l | 2085.72 |
| Cd | 111 | 159 | 1 | NO GAS | -0.006 | ug/l | -22.54 |
| Cd | 111 | 159 | 3 | He | 0.001 | ug/l | 4.00 |
| Cd | 114 | 159 | 1 | NO GAS | -0.007 | ug/l | -302.55 |
| Cd | 114 | 159 | 3 | He | 0.000 | ug/l | -26.75 |
| Sn | 118 | 159 | 1 | NO GAS | 0.220 | ug/l | 47713.05 |
| Sn | 118 | 159 | 3 | He | 0.074 | ug/l | 7187.20 |
| Sb | 121 | 159 | 1 | NO GAS | 0.035 | ug/l | 1406.74 |
| Sb | 121 | 159 | 3 | He | 0.035 | ug/l | 195.56 |
| Sb | 123 | 159 | 1 | NO GAS | 0.033 | ug/l | 1063.38 |
| Sb | 123 | 159 | 3 | He | 0.035 | ug/l | 148.89 |
| Ba | 135 | 159 | 1 | NO GAS | 0.004 | ug/l | 43.25 |
| Ba | 137 | 159 | 1 | NO GAS | 0.004 | ug/l | 76.51 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 120.12 |
| La | 139 | 175 | 3 | He | 0.000 | ug/l | 13.35 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 136.80 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 40.04 |
| Hg | 201 | 175 | 1 | NO GAS | 0.005 | ug/l | 41.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.006 | ug/l | 131.64 |
| Hg | 202 | 175 | 3 | He | 0.005 | ug/l | 66.66 |
| Tl | 203 | 175 | 3 | He | 0.091 | ug/l | 1646.43 |
| Tl | 205 | 175 | 1 | NO GAS | 0.100 | ug/l | 8177.83 |
| Tl | 205 | 175 | 3 | He | 0.094 | ug/l | 4188.43 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.002 | ug/l | 117.78 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.002 | ug/l | 94.44 |
| Pb | 208 | 175 | 1 | NO GAS | 0.002 | ug/l | 414.45 |
| Th | 232 | 175 | 3 | He | 0.031 | ug/l | 2923.72 |
| U | 238 | 175 | 1 | NO GAS | 0.002 | ug/l | 384.60 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1987890.14 | 95.5 |
| Sc | 45 | 2 | H2 | 81881.85 | 90.2 |
| Sc | 45 | 3 | He | 52078.22 | 94.8 |
| Ge | 72 | 1 | NO GAS | 943315.89 | 105.3 |
| Ge | 72 | 2 | H2 | 129316.77 | 99.9 |
| Ge | 72 | 3 | He | 84359.91 | 100.1 |
| Tb | 159 | 1 | NO GAS | 19179817.27 | 95.3 |
| Tb | 159 | 3 | He | 7265332.52 | 98.9 |
| Ho | 165 | 1 | NO GAS | 18250684.83 | 97.2 |
| Ho | 165 | 3 | He | 7245450.61 | 100.1 |
| Lu | 175 | 1 | NO GAS | 19698609.79 | 98.4 |
| Lu | 175 | 3 | He | 4369713.78 | 99.1 |

ICPMS206-B Analytical Data

Sample Name B22010751-001A
File Name 118SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 06:13:22
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | -1.282 | ug/l | 1484.44 |
| Be | 9 | 45 | 1 | NO GAS | 0.014 | ug/l | 6.67 |
| B | 11 | 45 | 1 | NO GAS | 217.102 | ug/l | 49146.09 |
| Na | 23 | 45 | 3 | He | 144917.666 | ug/l | 14853555.75 |
| Mg | 24 | 45 | 3 | He | 44665.741 | ug/l | 2389115.09 |
| Al | 27 | 45 | 1 | NO GAS | 7.666 | ug/l | 26153.33 |
| Si | 28 | 45 | 2 | H2 | 21142.537 | ug/l | 389954.32 |
| K | 39 | 72 | 3 | He | 3824.259 | ug/l | 196153.03 |
| Ca | 40 | 72 | 2 | H2 | 46446.521 | ug/l | 11197961.59 |
| Ti | 47 | 72 | 1 | NO GAS | 1.696 | ug/l | 1630.95 |
| V | 51 | 72 | 1 | NO GAS | 10.986 | ug/l | 139830.72 |
| V | 51 | 72 | 3 | He | 9.638 | ug/l | 14522.99 |
| Cr | 52 | 72 | 1 | NO GAS | 0.806 | ug/l | 26924.90 |
| Cr | 52 | 72 | 3 | He | 1.328 | ug/l | 2734.83 |
| Cr | 53 | 72 | 1 | NO GAS | -103.429 | ug/l | 22213.99 |
| Mn | 55 | 72 | 1 | NO GAS | 132.130 | ug/l | 2722191.65 |
| Mn | 55 | 72 | 3 | He | 133.053 | ug/l | 126563.25 |
| Fe | 56 | 72 | 2 | H2 | 7.702 | ug/l | 10991.55 |
| Fe | 56 | 72 | 3 | He | 7.864 | ug/l | 14554.16 |
| Co | 59 | 72 | 1 | NO GAS | 0.935 | ug/l | 16808.52 |
| Ni | 60 | 72 | 1 | NO GAS | 7.318 | ug/l | 28364.39 |
| Ni | 60 | 72 | 3 | He | 7.172 | ug/l | 8680.07 |
| Ni | 62 | 72 | 1 | NO GAS | 7.343 | ug/l | 4821.17 |
| Cu | 63 | 72 | 1 | NO GAS | 4.822 | ug/l | 48103.78 |
| Cu | 63 | 72 | 3 | He | 3.026 | ug/l | 11123.44 |
| Cu | 65 | 72 | 1 | NO GAS | 3.121 | ug/l | 15492.07 |
| Zn | 66 | 72 | 1 | NO GAS | 8.319 | ug/l | 27523.53 |
| Zn | 66 | 72 | 3 | He | 9.536 | ug/l | 5141.94 |
| As | 75 | 72 | 1 | NO GAS | 1.119 | ug/l | 8067.08 |
| As | 75 | 72 | 3 | He | 0.501 | ug/l | 180.63 |
| Se | 78 | 72 | 2 | H2 | 6.202 | ug/l | 789.20 |
| Br | 79 | 72 | 1 | NO GAS | 72.318 | ug/l | 579231.14 |
| Br | 79 | 72 | 2 | H2 | 87.026 | ug/l | 110463.59 |
| Se | 82 | 72 | 1 | NO GAS | 8.525 | ug/l | 2786.96 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 97038.23 |
| Sr | 88 | 72 | 1 | NO GAS | 370.104 | ug/l | 14942264.08 |
| Sr | 88 | 72 | 3 | He | 389.765 | ug/l | 666620.47 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 1.579 | ug/l | 13719.18 |
| Mo | 95 | 72 | 3 | He | 1.630 | ug/l | 4645.15 |
| Mo | 98 | 72 | 1 | NO GAS | 1.534 | ug/l | 22828.83 |
| Ag | 107 | 72 | 1 | NO GAS | -0.074 | ug/l | 157.30 |
| Ag | 109 | 72 | 1 | NO GAS | -0.071 | ug/l | 129.98 |
| Cd | 111 | 159 | 1 | NO GAS | 0.045 | ug/l | 270.31 |
| Cd | 111 | 159 | 3 | He | 0.074 | ug/l | 108.65 |
| Cd | 114 | 159 | 1 | NO GAS | 0.069 | ug/l | 718.76 |
| Cd | 114 | 159 | 3 | He | 0.074 | ug/l | 248.72 |
| Sn | 118 | 159 | 1 | NO GAS | -2.464 | ug/l | 1846.47 |
| Sn | 118 | 159 | 3 | He | -2.573 | ug/l | 267.78 |
| Sb | 121 | 159 | 1 | NO GAS | 0.200 | ug/l | 5255.34 |
| Sb | 121 | 159 | 3 | He | 0.195 | ug/l | 756.69 |
| Sb | 123 | 159 | 1 | NO GAS | 0.194 | ug/l | 4054.43 |
| Sb | 123 | 159 | 3 | He | 0.190 | ug/l | 588.91 |
| Ba | 135 | 159 | 1 | NO GAS | 78.491 | ug/l | 395497.49 |
| Ba | 137 | 159 | 1 | NO GAS | 77.844 | ug/l | 681341.89 |
| La | 139 | 175 | 1 | NO GAS | 0.008 | ug/l | 644.01 |
| La | 139 | 175 | 3 | He | 0.010 | ug/l | 200.20 |
| Ce | 140 | 175 | 1 | NO GAS | 0.016 | ug/l | 1271.35 |
| Ce | 140 | 175 | 3 | He | 0.016 | ug/l | 413.76 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 47.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.007 | ug/l | 136.64 |
| Hg | 202 | 175 | 3 | He | 0.007 | ug/l | 84.98 |
| Tl | 203 | 175 | 3 | He | 0.084 | ug/l | 1565.11 |
| Tl | 205 | 175 | 1 | NO GAS | 0.079 | ug/l | 6572.61 |
| Tl | 205 | 175 | 3 | He | 0.084 | ug/l | 3864.40 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.077 | ug/l | 1644.54 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.073 | ug/l | 1336.74 |
| Pb | 208 | 175 | 1 | NO GAS | 0.074 | ug/l | 6278.33 |
| Th | 232 | 175 | 3 | He | 0.060 | ug/l | 4379.12 |
| U | 238 | 175 | 1 | NO GAS | 0.272 | ug/l | 25719.07 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2345658.46 | 112.7 |
| Sc | 45 | 2 | H2 | 109645.67 | 120.7 |
| Sc | 45 | 3 | He | 61999.78 | 112.9 |
| Ge | 72 | 1 | NO GAS | 985447.02 | 110.0 |
| Ge | 72 | 2 | H2 | 151492.32 | 117.0 |
| Ge | 72 | 3 | He | 93517.47 | 110.9 |
| Tb | 159 | 1 | NO GAS | 19285948.60 | 95.8 |
| Tb | 159 | 3 | He | 7241479.30 | 98.6 |
| Ho | 165 | 1 | NO GAS | 17871663.43 | 95.2 |
| Ho | 165 | 3 | He | 7108556.53 | 98.2 |
| Lu | 175 | 1 | NO GAS | 19345868.00 | 96.7 |
| Lu | 175 | 3 | He | 4409191.59 | 100.0 |

ICPMS206-B Analytical Data

Sample Name B22010971-001A
File Name 119SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 06:19:26
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -0.392 | ug/l | 2305.70 |
| Be | 9 | 45 | 1 | NO GAS | 0.012 | ug/l | 7.00 |
| B | 11 | 45 | 1 | NO GAS | 33.895 | ug/l | 9085.27 |
| Na | 23 | 45 | 3 | He | 41115.614 | ug/l | 4360032.74 |
| Mg | 24 | 45 | 3 | He | 8440.655 | ug/l | 466252.73 |
| Al | 27 | 45 | 1 | NO GAS | 4.343 | ug/l | 17268.86 |
| Si | 28 | 45 | 2 | H2 | 23545.780 | ug/l | 422131.18 |
| K | 39 | 72 | 3 | He | 2911.928 | ug/l | 156423.53 |
| Ca | 40 | 72 | 2 | H2 | 13349.543 | ug/l | 3270771.45 |
| Ti | 47 | 72 | 1 | NO GAS | 1.362 | ug/l | 1432.69 |
| V | 51 | 72 | 1 | NO GAS | 10.026 | ug/l | 136502.18 |
| V | 51 | 72 | 3 | He | 9.093 | ug/l | 14292.78 |
| Cr | 52 | 72 | 1 | NO GAS | 1.337 | ug/l | 36907.46 |
| Cr | 52 | 72 | 3 | He | 2.148 | ug/l | 4518.35 |
| Cr | 53 | 72 | 1 | NO GAS | -99.905 | ug/l | 28038.58 |
| Mn | 55 | 72 | 1 | NO GAS | 3.786 | ug/l | 85767.18 |
| Mn | 55 | 72 | 3 | He | 4.258 | ug/l | 4228.96 |
| Fe | 56 | 72 | 2 | H2 | 3.675 | ug/l | 5514.88 |
| Fe | 56 | 72 | 3 | He | 3.566 | ug/l | 7218.01 |
| Co | 59 | 72 | 1 | NO GAS | 0.024 | ug/l | 535.62 |
| Ni | 60 | 72 | 1 | NO GAS | 0.432 | ug/l | 1839.81 |
| Ni | 60 | 72 | 3 | He | 0.353 | ug/l | 480.01 |
| Ni | 62 | 72 | 1 | NO GAS | 0.217 | ug/l | 598.83 |
| Cu | 63 | 72 | 1 | NO GAS | 0.730 | ug/l | 8341.09 |
| Cu | 63 | 72 | 3 | He | 0.215 | ug/l | 1020.16 |
| Cu | 65 | 72 | 1 | NO GAS | 0.242 | ug/l | 1557.10 |
| Zn | 66 | 72 | 1 | NO GAS | 3.415 | ug/l | 12415.58 |
| Zn | 66 | 72 | 3 | He | 4.286 | ug/l | 2445.75 |
| As | 75 | 72 | 1 | NO GAS | 1.314 | ug/l | 9199.64 |
| As | 75 | 72 | 3 | He | 1.495 | ug/l | 547.23 |
| Se | 78 | 72 | 2 | H2 | 0.115 | ug/l | 18.67 |
| Br | 79 | 72 | 1 | NO GAS | 10.133 | ug/l | 158742.88 |
| Br | 79 | 72 | 2 | H2 | 11.442 | ug/l | 25379.47 |
| Se | 82 | 72 | 1 | NO GAS | 0.948 | ug/l | 517.02 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 37625.05 |
| Sr | 88 | 72 | 1 | NO GAS | 113.141 | ug/l | 4948366.88 |
| Sr | 88 | 72 | 3 | He | 122.695 | ug/l | 218807.67 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 4.748 | ug/l | 44602.93 |
| Mo | 95 | 72 | 3 | He | 5.298 | ug/l | 15625.33 |
| Mo | 98 | 72 | 1 | NO GAS | 4.610 | ug/l | 74060.85 |
| Ag | 107 | 72 | 1 | NO GAS | -0.072 | ug/l | 203.30 |
| Ag | 109 | 72 | 1 | NO GAS | -0.069 | ug/l | 182.63 |
| Cd | 111 | 159 | 1 | NO GAS | 0.001 | ug/l | 18.63 |
| Cd | 111 | 159 | 3 | He | 0.004 | ug/l | 9.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.020 | ug/l | 71.00 |
| Cd | 114 | 159 | 3 | He | 0.008 | ug/l | 5.35 |
| Sn | 118 | 159 | 1 | NO GAS | -2.413 | ug/l | 2987.72 |
| Sn | 118 | 159 | 3 | He | -2.486 | ug/l | 517.79 |
| Sb | 121 | 159 | 1 | NO GAS | 0.424 | ug/l | 11995.65 |
| Sb | 121 | 159 | 3 | He | 0.473 | ug/l | 1814.57 |
| Sb | 123 | 159 | 1 | NO GAS | 0.422 | ug/l | 9492.90 |
| Sb | 123 | 159 | 3 | He | 0.496 | ug/l | 1537.86 |
| Ba | 135 | 159 | 1 | NO GAS | 20.921 | ug/l | 120039.62 |
| Ba | 137 | 159 | 1 | NO GAS | 20.369 | ug/l | 202666.93 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 163.50 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 26.69 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 193.54 |
| Ce | 140 | 175 | 3 | He | 0.002 | ug/l | 60.06 |
| Hg | 201 | 175 | 1 | NO GAS | 0.019 | ug/l | 103.65 |
| Hg | 202 | 175 | 1 | NO GAS | 0.371 | ug/l | 3812.39 |
| Hg | 202 | 175 | 3 | He | 0.267 | ug/l | 1865.75 |
| Tl | 203 | 175 | 3 | He | 0.056 | ug/l | 1202.48 |
| Tl | 205 | 175 | 1 | NO GAS | 0.045 | ug/l | 4911.97 |
| Tl | 205 | 175 | 3 | He | 0.054 | ug/l | 2913.04 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.122 | ug/l | 2926.97 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.111 | ug/l | 2317.98 |
| Pb | 208 | 175 | 1 | NO GAS | 0.117 | ug/l | 11082.79 |
| Th | 232 | 175 | 3 | He | -0.015 | ug/l | 651.89 |
| U | 238 | 175 | 1 | NO GAS | 0.264 | ug/l | 28349.67 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2562160.90 | 123.1 |
| Sc | 45 | 2 | H2 | 106643.70 | 117.4 |
| Sc | 45 | 3 | He | 64096.77 | 116.7 |
| Ge | 72 | 1 | NO GAS | 1033880.83 | 115.4 |
| Ge | 72 | 2 | H2 | 153973.71 | 118.9 |
| Ge | 72 | 3 | He | 97415.43 | 115.6 |
| Tb | 159 | 1 | NO GAS | 20983849.36 | 104.3 |
| Tb | 159 | 3 | He | 7613802.75 | 103.6 |
| Ho | 165 | 1 | NO GAS | 19240068.35 | 102.5 |
| Ho | 165 | 3 | He | 7211992.57 | 99.6 |
| Lu | 175 | 1 | NO GAS | 21028098.19 | 105.1 |
| Lu | 175 | 3 | He | 4503672.05 | 102.1 |

ICPMS206-B Analytical Data

Sample Name B22010971-001B
File Name 120SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 06:25:10
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 0.386 | ug/l | 2917.67 |
| Be | 9 | 45 | 1 | NO GAS | 0.020 | ug/l | 8.00 |
| B | 11 | 45 | 1 | NO GAS | 36.059 | ug/l | 8111.63 |
| Na | 23 | 45 | 3 | He | 49448.621 | ug/l | 4076507.55 |
| Mg | 24 | 45 | 3 | He | 9482.145 | ug/l | 408482.95 |
| Al | 27 | 45 | 1 | NO GAS | 33.517 | ug/l | 108128.79 |
| Si | 28 | 45 | 2 | H2 | 23353.440 | ug/l | 337624.77 |
| K | 39 | 72 | 3 | He | 3116.182 | ug/l | 130927.77 |
| Ca | 40 | 72 | 2 | H2 | 11985.035 | ug/l | 2542804.53 |
| Ti | 47 | 72 | 1 | NO GAS | 3.366 | ug/l | 3143.76 |
| V | 51 | 72 | 1 | NO GAS | 7.853 | ug/l | 91573.14 |
| V | 51 | 72 | 3 | He | 10.401 | ug/l | 12778.25 |
| Cr | 52 | 72 | 1 | NO GAS | 2.556 | ug/l | 49577.44 |
| Cr | 52 | 72 | 3 | He | 2.690 | ug/l | 4395.22 |
| Cr | 53 | 72 | 1 | NO GAS | 59.454 | ug/l | 195260.68 |
| Mn | 55 | 72 | 1 | NO GAS | 7.080 | ug/l | 144388.36 |
| Mn | 55 | 72 | 3 | He | 8.162 | ug/l | 6341.83 |
| Fe | 56 | 72 | 2 | H2 | 31.008 | ug/l | 38004.12 |
| Fe | 56 | 72 | 3 | He | 36.855 | ug/l | 53837.66 |
| Co | 59 | 72 | 1 | NO GAS | 0.057 | ug/l | 1057.95 |
| Ni | 60 | 72 | 1 | NO GAS | 0.552 | ug/l | 2122.61 |
| Ni | 60 | 72 | 3 | He | 0.492 | ug/l | 513.35 |
| Ni | 62 | 72 | 1 | NO GAS | 0.453 | ug/l | 678.67 |
| Cu | 63 | 72 | 1 | NO GAS | 1.184 | ug/l | 11951.91 |
| Cu | 63 | 72 | 3 | He | 0.611 | ug/l | 1968.06 |
| Cu | 65 | 72 | 1 | NO GAS | 0.619 | ug/l | 3218.34 |
| Zn | 66 | 72 | 1 | NO GAS | 19.323 | ug/l | 62078.82 |
| Zn | 66 | 72 | 3 | He | 23.029 | ug/l | 10066.42 |
| As | 75 | 72 | 1 | NO GAS | 1.473 | ug/l | 8877.42 |
| As | 75 | 72 | 3 | He | 1.501 | ug/l | 429.59 |
| Se | 78 | 72 | 2 | H2 | 0.116 | ug/l | 16.33 |
| Br | 79 | 72 | 1 | NO GAS | 3.220 | ug/l | 96467.46 |
| Br | 79 | 72 | 2 | H2 | 4.067 | ug/l | 14640.96 |
| Se | 82 | 72 | 1 | NO GAS | 1.366 | ug/l | 584.22 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 35408.04 |
| Sr | 88 | 72 | 1 | NO GAS | 126.896 | ug/l | 5026235.47 |
| Sr | 88 | 72 | 3 | He | 141.379 | ug/l | 197477.38 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 5.590 | ug/l | 47557.73 |
| Mo | 95 | 72 | 3 | He | 6.737 | ug/l | 15554.14 |
| Mo | 98 | 72 | 1 | NO GAS | 5.681 | ug/l | 82637.10 |
| Ag | 107 | 72 | 1 | NO GAS | -0.039 | ug/l | 976.51 |
| Ag | 109 | 72 | 1 | NO GAS | -0.034 | ug/l | 995.17 |
| Cd | 111 | 159 | 1 | NO GAS | 0.005 | ug/l | 45.73 |
| Cd | 111 | 159 | 3 | He | 0.009 | ug/l | 16.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.022 | ug/l | 104.05 |
| Cd | 114 | 159 | 3 | He | 0.012 | ug/l | 17.12 |
| Sn | 118 | 159 | 1 | NO GAS | -1.951 | ug/l | 11278.36 |
| Sn | 118 | 159 | 3 | He | -1.976 | ug/l | 1686.77 |
| Sb | 121 | 159 | 1 | NO GAS | 0.445 | ug/l | 12214.71 |
| Sb | 121 | 159 | 3 | He | 0.545 | ug/l | 1835.68 |
| Sb | 123 | 159 | 1 | NO GAS | 0.442 | ug/l | 9610.73 |
| Sb | 123 | 159 | 3 | He | 0.537 | ug/l | 1467.86 |
| Ba | 135 | 159 | 1 | NO GAS | 21.650 | ug/l | 120545.78 |
| Ba | 137 | 159 | 1 | NO GAS | 21.732 | ug/l | 209940.04 |
| La | 139 | 175 | 1 | NO GAS | 0.024 | ug/l | 2199.07 |
| La | 139 | 175 | 3 | He | 0.021 | ug/l | 383.73 |
| Ce | 140 | 175 | 1 | NO GAS | 0.053 | ug/l | 4785.63 |
| Ce | 140 | 175 | 3 | He | 0.054 | ug/l | 1244.66 |
| Hg | 201 | 175 | 1 | NO GAS | 0.033 | ug/l | 169.97 |
| Hg | 202 | 175 | 1 | NO GAS | 0.448 | ug/l | 4676.46 |
| Hg | 202 | 175 | 3 | He | 0.337 | ug/l | 2155.06 |
| Tl | 203 | 175 | 3 | He | 0.035 | ug/l | 829.20 |
| Tl | 205 | 175 | 1 | NO GAS | 0.024 | ug/l | 3547.12 |
| Tl | 205 | 175 | 3 | He | 0.030 | ug/l | 1905.75 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.041 | ug/l | 1042.27 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.047 | ug/l | 1033.38 |
| Pb | 208 | 175 | 1 | NO GAS | 0.044 | ug/l | 4408.07 |
| Th | 232 | 175 | 3 | He | 0.094 | ug/l | 5714.65 |
| U | 238 | 175 | 1 | NO GAS | 0.300 | ug/l | 32861.35 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2150636.15 | 103.3 |
| Sc | 45 | 2 | H2 | 85995.09 | 94.7 |
| Sc | 45 | 3 | He | 50064.43 | 91.2 |
| Ge | 72 | 1 | NO GAS | 935545.08 | 104.4 |
| Ge | 72 | 2 | H2 | 133324.27 | 103.0 |
| Ge | 72 | 3 | He | 76482.36 | 90.7 |
| Tb | 159 | 1 | NO GAS | 20352007.12 | 101.1 |
| Tb | 159 | 3 | He | 6754364.70 | 91.9 |
| Ho | 165 | 1 | NO GAS | 19491028.68 | 103.8 |
| Ho | 165 | 3 | He | 6567077.21 | 90.7 |
| Lu | 175 | 1 | NO GAS | 21432475.68 | 107.1 |
| Lu | 175 | 3 | He | 4147121.32 | 94.0 |

ICPMS206-B Analytical Data

Sample Name B22010971-001BDIL
File Name 121SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 06:30:55
Sample Type Sample
Total Dilution 5.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -7.084 | ug/l | 1552.43 |
| Be | 9 | 45 | 1 | NO GAS | 0.018 | ug/l | 3.00 |
| B | 11 | 45 | 1 | NO GAS | 36.755 | ug/l | 1789.07 |
| Na | 23 | 45 | 3 | He | 43994.414 | ug/l | 739069.31 |
| Mg | 24 | 45 | 3 | He | 8981.144 | ug/l | 77942.30 |
| Al | 27 | 45 | 1 | NO GAS | 37.709 | ug/l | 23261.42 |
| Si | 28 | 45 | 2 | H2 | 23500.425 | ug/l | 64235.11 |
| K | 39 | 72 | 3 | He | 2674.278 | ug/l | 26340.35 |
| Ca | 40 | 72 | 2 | H2 | 11783.183 | ug/l | 467969.54 |
| Ti | 47 | 72 | 1 | NO GAS | 3.159 | ug/l | 608.05 |
| V | 51 | 72 | 1 | NO GAS | 6.677 | ug/l | -4866.54 |
| V | 51 | 72 | 3 | He | 8.565 | ug/l | 2511.31 |
| Cr | 52 | 72 | 1 | NO GAS | 1.839 | ug/l | 20175.44 |
| Cr | 52 | 72 | 3 | He | 2.362 | ug/l | 934.85 |
| Cr | 53 | 72 | 1 | NO GAS | -10.630 | ug/l | 126890.06 |
| Mn | 55 | 72 | 1 | NO GAS | 6.918 | ug/l | 28487.69 |
| Mn | 55 | 72 | 3 | He | 7.269 | ug/l | 1217.83 |
| Fe | 56 | 72 | 2 | H2 | 31.325 | ug/l | 7404.70 |
| Fe | 56 | 72 | 3 | He | 33.561 | ug/l | 10938.21 |
| Co | 59 | 72 | 1 | NO GAS | 0.050 | ug/l | 232.88 |
| Ni | 60 | 72 | 1 | NO GAS | 0.660 | ug/l | 509.01 |
| Ni | 60 | 72 | 3 | He | 0.538 | ug/l | 144.45 |
| Ni | 62 | 72 | 1 | NO GAS | 0.289 | ug/l | 435.81 |
| Cu | 63 | 72 | 1 | NO GAS | 1.335 | ug/l | 3008.35 |
| Cu | 63 | 72 | 3 | He | 0.719 | ug/l | 632.22 |
| Cu | 65 | 72 | 1 | NO GAS | 0.802 | ug/l | 995.17 |
| Zn | 66 | 72 | 1 | NO GAS | 9.323 | ug/l | 6163.09 |
| Zn | 66 | 72 | 3 | He | 9.961 | ug/l | 984.48 |
| As | 75 | 72 | 1 | NO GAS | 0.796 | ug/l | 4264.49 |
| As | 75 | 72 | 3 | He | 1.512 | ug/l | 97.65 |
| Se | 78 | 72 | 2 | H2 | 0.151 | ug/l | 6.33 |
| Br | 79 | 72 | 1 | NO GAS | 9.194 | ug/l | 85191.39 |
| Br | 79 | 72 | 2 | H2 | 13.224 | ug/l | 12356.87 |
| Se | 82 | 72 | 1 | NO GAS | 6.556 | ug/l | 560.27 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 13515.40 |
| Sr | 88 | 72 | 1 | NO GAS | 124.432 | ug/l | 965057.46 |
| Sr | 88 | 72 | 3 | He | 130.713 | ug/l | 39297.97 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 5.758 | ug/l | 9659.57 |
| Mo | 95 | 72 | 3 | He | 6.169 | ug/l | 3082.54 |
| Mo | 98 | 72 | 1 | NO GAS | 5.512 | ug/l | 15815.54 |
| Ag | 107 | 72 | 1 | NO GAS | -0.340 | ug/l | 282.62 |
| Ag | 109 | 72 | 1 | NO GAS | -0.321 | ug/l | 282.61 |
| Cd | 111 | 159 | 1 | NO GAS | 0.031 | ug/l | 51.90 |
| Cd | 111 | 159 | 3 | He | 0.034 | ug/l | 12.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.130 | ug/l | 152.06 |
| Cd | 114 | 159 | 3 | He | 0.055 | ug/l | 14.37 |
| Sn | 118 | 159 | 1 | NO GAS | -11.672 | ug/l | 4238.86 |
| Sn | 118 | 159 | 3 | He | -11.973 | ug/l | 726.69 |
| Sb | 121 | 159 | 1 | NO GAS | 0.453 | ug/l | 2882.51 |
| Sb | 121 | 159 | 3 | He | 0.554 | ug/l | 456.68 |
| Sb | 123 | 159 | 1 | NO GAS | 0.422 | ug/l | 2157.94 |
| Sb | 123 | 159 | 3 | He | 0.521 | ug/l | 342.23 |
| Ba | 135 | 159 | 1 | NO GAS | 23.799 | ug/l | 25970.04 |
| Ba | 137 | 159 | 1 | NO GAS | 23.285 | ug/l | 44090.62 |
| La | 139 | 175 | 1 | NO GAS | 0.034 | ug/l | 687.39 |
| La | 139 | 175 | 3 | He | 0.027 | ug/l | 110.11 |
| Ce | 140 | 175 | 1 | NO GAS | 0.056 | ug/l | 1071.14 |
| Ce | 140 | 175 | 3 | He | 0.067 | ug/l | 330.34 |
| Hg | 201 | 175 | 1 | NO GAS | 0.027 | ug/l | 46.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.422 | ug/l | 953.18 |
| Hg | 202 | 175 | 3 | He | 0.317 | ug/l | 447.58 |
| Tl | 203 | 175 | 3 | He | 0.110 | ug/l | 675.22 |
| Tl | 205 | 175 | 1 | NO GAS | 0.081 | ug/l | 2970.32 |
| Tl | 205 | 175 | 3 | He | 0.116 | ug/l | 1732.43 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.078 | ug/l | 443.34 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.065 | ug/l | 334.45 |
| Pb | 208 | 175 | 1 | NO GAS | 0.069 | ug/l | 1584.49 |
| Th | 232 | 175 | 3 | He | -0.005 | ug/l | 1286.47 |
| U | 238 | 175 | 1 | NO GAS | 0.303 | ug/l | 6818.88 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2019529.16 | 97.0 |
| Sc | 45 | 2 | H2 | 80250.14 | 88.4 |
| Sc | 45 | 3 | He | 50281.72 | 91.5 |
| Ge | 72 | 1 | NO GAS | 915885.45 | 102.2 |
| Ge | 72 | 2 | H2 | 124660.43 | 96.3 |
| Ge | 72 | 3 | He | 81779.19 | 97.0 |
| Tb | 159 | 1 | NO GAS | 19923419.38 | 99.0 |
| Tb | 159 | 3 | He | 7175828.60 | 97.7 |
| Ho | 165 | 1 | NO GAS | 19203281.36 | 102.3 |
| Ho | 165 | 3 | He | 6985191.61 | 96.5 |
| Lu | 175 | 1 | NO GAS | 21489562.35 | 107.4 |
| Lu | 175 | 3 | He | 4270795.23 | 96.8 |

ICPMS206-B Analytical Data

Sample Name B22010971-001BPDS1
File Name 122_ARF.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 06:36:39
Sample Type AllRef
Total Dilution 1.0300
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 1530.328 | ug/l | 1052052.40 |
| Be | 9 | 45 | 1 | NO GAS | 41.488 | ug/l | 11243.02 |
| B | 11 | 45 | 1 | NO GAS | 82.319 | ug/l | 16367.16 |
| Na | 23 | 45 | 3 | He | 96850.309 | ug/l | 7902589.33 |
| Mg | 24 | 45 | 3 | He | 60834.485 | ug/l | 2588795.88 |
| Al | 27 | 45 | 1 | NO GAS | 78.675 | ug/l | 228848.13 |
| Si | 28 | 45 | 2 | H2 | 23720.313 | ug/l | 299167.74 |
| K | 39 | 72 | 3 | He | 47948.529 | ug/l | 2013230.68 |
| Ca | 40 | 72 | 2 | H2 | 54870.309 | ug/l | 10298149.47 |
| Ti | 47 | 72 | 1 | NO GAS | 53.878 | ug/l | 46995.08 |
| V | 51 | 72 | 1 | NO GAS | 53.713 | ug/l | 725629.75 |
| V | 51 | 72 | 3 | He | 58.503 | ug/l | 71798.94 |
| Cr | 52 | 72 | 1 | NO GAS | 47.863 | ug/l | 613284.14 |
| Cr | 52 | 72 | 3 | He | 53.972 | ug/l | 87521.57 |
| Cr | 53 | 72 | 1 | NO GAS | 161.393 | ug/l | 290853.76 |
| Mn | 55 | 72 | 1 | NO GAS | 50.939 | ug/l | 974849.86 |
| Mn | 55 | 72 | 3 | He | 56.591 | ug/l | 44734.86 |
| Fe | 56 | 72 | 2 | H2 | 4558.481 | ug/l | 4896683.11 |
| Fe | 56 | 72 | 3 | He | 4977.245 | ug/l | 7334920.05 |
| Co | 59 | 72 | 1 | NO GAS | 44.575 | ug/l | 738107.51 |
| Ni | 60 | 72 | 1 | NO GAS | 45.529 | ug/l | 163835.81 |
| Ni | 60 | 72 | 3 | He | 51.038 | ug/l | 51131.97 |
| Ni | 62 | 72 | 1 | NO GAS | 44.720 | ug/l | 25355.69 |
| Cu | 63 | 72 | 1 | NO GAS | 46.493 | ug/l | 425657.58 |
| Cu | 63 | 72 | 3 | He | 50.233 | ug/l | 150812.17 |
| Cu | 65 | 72 | 1 | NO GAS | 45.943 | ug/l | 208712.35 |
| Zn | 66 | 72 | 1 | NO GAS | 46.264 | ug/l | 139966.62 |
| Zn | 66 | 72 | 3 | He | 49.294 | ug/l | 21867.66 |
| As | 75 | 72 | 1 | NO GAS | 45.656 | ug/l | 152835.93 |
| As | 75 | 72 | 3 | He | 50.288 | ug/l | 14492.71 |
| Se | 78 | 72 | 2 | H2 | 47.906 | ug/l | 4721.06 |
| Br | 79 | 72 | 1 | NO GAS | 3.535 | ug/l | 95269.99 |
| Br | 79 | 72 | 2 | H2 | 4.636 | ug/l | 13705.25 |
| Se | 82 | 72 | 1 | NO GAS | 44.486 | ug/l | 12457.11 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 45786.39 |
| Sr | 88 | 72 | 1 | NO GAS | 171.783 | ug/l | 6428472.44 |
| Sr | 88 | 72 | 3 | He | 182.828 | ug/l | 259939.63 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 55.608 | ug/l | 446115.13 |
| Mo | 95 | 72 | 3 | He | 61.009 | ug/l | 143203.93 |
| Mo | 98 | 72 | 1 | NO GAS | 54.773 | ug/l | 751439.36 |
| Ag | 107 | 72 | 1 | NO GAS | 20.476 | ug/l | 466980.95 |
| Ag | 109 | 72 | 1 | NO GAS | 20.309 | ug/l | 455885.28 |
| Cd | 111 | 159 | 1 | NO GAS | 44.631 | ug/l | 263548.66 |
| Cd | 111 | 159 | 3 | He | 47.022 | ug/l | 61871.54 |
| Cd | 114 | 159 | 1 | NO GAS | 44.057 | ug/l | 603078.90 |
| Cd | 114 | 159 | 3 | He | 47.060 | ug/l | 161388.01 |
| Sn | 118 | 159 | 1 | NO GAS | 45.431 | ug/l | 827989.90 |
| Sn | 118 | 159 | 3 | He | 48.062 | ug/l | 122305.72 |
| Sb | 121 | 159 | 1 | NO GAS | 45.629 | ug/l | 1133450.09 |
| Sb | 121 | 159 | 3 | He | 47.102 | ug/l | 152292.02 |
| Sb | 123 | 159 | 1 | NO GAS | 44.942 | ug/l | 885954.38 |
| Sb | 123 | 159 | 3 | He | 47.800 | ug/l | 126143.41 |
| Ba | 135 | 159 | 1 | NO GAS | 69.082 | ug/l | 365679.27 |
| Ba | 137 | 159 | 1 | NO GAS | 68.323 | ug/l | 627471.28 |
| La | 139 | 175 | 1 | NO GAS | 0.031 | ug/l | 2609.55 |
| La | 139 | 175 | 3 | He | 0.029 | ug/l | 510.53 |
| Ce | 140 | 175 | 1 | NO GAS | 49.518 | ug/l | 4046345.71 |
| Ce | 140 | 175 | 3 | He | 48.674 | ug/l | 1071289.40 |
| Hg | 201 | 175 | 1 | NO GAS | 0.974 | ug/l | 3992.40 |
| Hg | 202 | 175 | 1 | NO GAS | 1.425 | ug/l | 13440.59 |
| Hg | 202 | 175 | 3 | He | 1.298 | ug/l | 7913.16 |
| Tl | 203 | 175 | 3 | He | 49.896 | ug/l | 632834.56 |
| Tl | 205 | 175 | 1 | NO GAS | 47.048 | ug/l | 3046288.67 |
| Tl | 205 | 175 | 3 | He | 50.056 | ug/l | 1556608.08 |
| [Pb] | 206 | 175 | 1 | NO GAS | 47.631 | ug/l | 1039438.46 |
| [Pb] | 207 | 175 | 1 | NO GAS | 47.140 | ug/l | 891837.59 |
| Pb | 208 | 175 | 1 | NO GAS | 47.561 | ug/l | 4118724.91 |
| Th | 232 | 175 | 3 | He | 53.315 | ug/l | 2419022.05 |
| U | 238 | 175 | 1 | NO GAS | 48.286 | ug/l | 4812631.15 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2004468.94 | 96.3 |
| Sc | 45 | 2 | H2 | 77259.54 | 85.1 |
| Sc | 45 | 3 | He | 50838.79 | 92.6 |
| Ge | 72 | 1 | NO GAS | 910238.35 | 101.6 |
| Ge | 72 | 2 | H2 | 121371.85 | 93.7 |
| Ge | 72 | 3 | He | 80055.26 | 95.0 |
| Tb | 159 | 1 | NO GAS | 19956377.76 | 99.2 |
| Tb | 159 | 3 | He | 6894380.75 | 93.8 |
| Ho | 165 | 1 | NO GAS | 18476078.13 | 98.4 |
| Ho | 165 | 3 | He | 6755669.70 | 93.3 |
| Lu | 175 | 1 | NO GAS | 20195618.03 | 100.9 |
| Lu | 175 | 3 | He | 4105873.12 | 93.1 |

ICPMS206-B Analytical Data

Sample Name B22010971-001BMS4
File Name 123MS4.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 06:42:19
Sample Type MS4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 66.304 | ug/l | 50778.39 |
| Be | 9 | 45 | 1 | NO GAS | 43.240 | ug/l | 13185.98 |
| B | 11 | 45 | 1 | NO GAS | 136.611 | ug/l | 30351.02 |
| Na | 23 | 45 | 3 | He | 49974.207 | ug/l | 4580551.70 |
| Mg | 24 | 45 | 3 | He | 13825.019 | ug/l | 660282.66 |
| Al | 27 | 45 | 1 | NO GAS | 508.199 | ug/l | 1661789.65 |
| Si | 28 | 45 | 2 | H2 | 23921.068 | ug/l | 362427.47 |
| K | 39 | 72 | 3 | He | 7660.232 | ug/l | 356505.34 |
| Ca | 40 | 72 | 2 | H2 | 16853.642 | ug/l | 3627492.56 |
| Ti | 47 | 72 | 1 | NO GAS | 96.381 | ug/l | 93330.28 |
| V | 51 | 72 | 1 | NO GAS | 103.986 | ug/l | 1586397.87 |
| V | 51 | 72 | 3 | He | 112.521 | ug/l | 151632.94 |
| Cr | 52 | 72 | 1 | NO GAS | 97.487 | ug/l | 1369536.03 |
| Cr | 52 | 72 | 3 | He | 105.981 | ug/l | 188999.01 |
| Cr | 53 | 72 | 1 | NO GAS | 181.972 | ug/l | 341981.92 |
| Mn | 55 | 72 | 1 | NO GAS | 488.372 | ug/l | 10372884.71 |
| Mn | 55 | 72 | 3 | He | 520.447 | ug/l | 452764.61 |
| Fe | 56 | 72 | 2 | H2 | 488.974 | ug/l | 603147.65 |
| Fe | 56 | 72 | 3 | He | 545.432 | ug/l | 885375.87 |
| Co | 59 | 72 | 1 | NO GAS | 95.807 | ug/l | 1762248.13 |
| Ni | 60 | 72 | 1 | NO GAS | 93.674 | ug/l | 374483.09 |
| Ni | 60 | 72 | 3 | He | 107.284 | ug/l | 118264.11 |
| Ni | 62 | 72 | 1 | NO GAS | 93.174 | ug/l | 58192.11 |
| Cu | 63 | 72 | 1 | NO GAS | 94.607 | ug/l | 961476.29 |
| Cu | 63 | 72 | 3 | He | 107.198 | ug/l | 353912.08 |
| Cu | 65 | 72 | 1 | NO GAS | 96.210 | ug/l | 485199.14 |
| Zn | 66 | 72 | 1 | NO GAS | 91.740 | ug/l | 307937.60 |
| Zn | 66 | 72 | 3 | He | 100.650 | ug/l | 49084.91 |
| As | 75 | 72 | 1 | NO GAS | 92.199 | ug/l | 338625.19 |
| As | 75 | 72 | 3 | He | 100.556 | ug/l | 31885.56 |
| Se | 78 | 72 | 2 | H2 | 99.830 | ug/l | 11289.23 |
| Br | 79 | 72 | 1 | NO GAS | 2.580 | ug/l | 96615.33 |
| Br | 79 | 72 | 2 | H2 | 4.074 | ug/l | 14850.68 |
| Se | 82 | 72 | 1 | NO GAS | 89.536 | ug/l | 27633.16 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 61258.71 |
| Sr | 88 | 72 | 1 | NO GAS | 220.443 | ug/l | 9162537.66 |
| Sr | 88 | 72 | 3 | He | 238.570 | ug/l | 373261.77 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 104.777 | ug/l | 933684.07 |
| Mo | 95 | 72 | 3 | He | 119.857 | ug/l | 309569.19 |
| Mo | 98 | 72 | 1 | NO GAS | 109.216 | ug/l | 1664062.58 |
| Ag | 107 | 72 | 1 | NO GAS | 10.197 | ug/l | 259302.89 |
| Ag | 109 | 72 | 1 | NO GAS | 9.808 | ug/l | 245562.66 |
| Cd | 111 | 159 | 1 | NO GAS | 47.761 | ug/l | 295315.93 |
| Cd | 111 | 159 | 3 | He | 49.603 | ug/l | 71313.80 |
| Cd | 114 | 159 | 1 | NO GAS | 47.165 | ug/l | 676359.44 |
| Cd | 114 | 159 | 3 | He | 49.218 | ug/l | 184402.47 |
| Sn | 118 | 159 | 1 | NO GAS | 100.595 | ug/l | 1859955.51 |
| Sn | 118 | 159 | 3 | He | 101.950 | ug/l | 275157.73 |
| Sb | 121 | 159 | 1 | NO GAS | 96.715 | ug/l | 2513088.40 |
| Sb | 121 | 159 | 3 | He | 98.576 | ug/l | 348261.85 |
| Sb | 123 | 159 | 1 | NO GAS | 94.967 | ug/l | 1959311.55 |
| Sb | 123 | 159 | 3 | He | 98.144 | ug/l | 282981.11 |
| Ba | 135 | 159 | 1 | NO GAS | 114.714 | ug/l | 635420.72 |
| Ba | 137 | 159 | 1 | NO GAS | 113.990 | ug/l | 1095300.26 |
| La | 139 | 175 | 1 | NO GAS | 102.445 | ug/l | 9088490.25 |
| La | 139 | 175 | 3 | He | 100.536 | ug/l | 1935181.49 |
| Ce | 140 | 175 | 1 | NO GAS | 100.320 | ug/l | 8830002.61 |
| Ce | 140 | 175 | 3 | He | 101.218 | ug/l | 2470175.56 |
| Hg | 201 | 175 | 1 | NO GAS | 0.035 | ug/l | 177.30 |
| Hg | 202 | 175 | 1 | NO GAS | 0.474 | ug/l | 4876.48 |
| Hg | 202 | 175 | 3 | He | 0.325 | ug/l | 2225.73 |
| Tl | 203 | 175 | 3 | He | 101.352 | ug/l | 1425256.42 |
| Tl | 205 | 175 | 1 | NO GAS | 95.811 | ug/l | 6678046.29 |
| Tl | 205 | 175 | 3 | He | 98.433 | ug/l | 3393842.41 |
| [Pb] | 206 | 175 | 1 | NO GAS | 99.559 | ug/l | 2338137.48 |
| [Pb] | 207 | 175 | 1 | NO GAS | 100.329 | ug/l | 2044545.42 |
| Pb | 208 | 175 | 1 | NO GAS | 99.761 | ug/l | 9299715.36 |
| Th | 232 | 175 | 3 | He | 104.953 | ug/l | 5280987.83 |
| U | 238 | 175 | 1 | NO GAS | 99.995 | ug/l | 10734206.30 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2189030.20 | 105.2 |
| Sc | 45 | 2 | H2 | 90071.69 | 99.2 |
| Sc | 45 | 3 | He | 55379.98 | 100.8 |
| Ge | 72 | 1 | NO GAS | 981710.04 | 109.6 |
| Ge | 72 | 2 | H2 | 135177.08 | 104.4 |
| Ge | 72 | 3 | He | 85530.71 | 101.5 |
| Tb | 159 | 1 | NO GAS | 20247325.57 | 100.6 |
| Tb | 159 | 3 | He | 7315475.06 | 99.6 |
| Ho | 165 | 1 | NO GAS | 19007830.70 | 101.3 |
| Ho | 165 | 3 | He | 7255301.56 | 100.2 |
| Lu | 175 | 1 | NO GAS | 21119042.88 | 105.5 |
| Lu | 175 | 3 | He | 4421010.44 | 100.2 |

ICPMS206-B Analytical Data

Sample Name B22010971-001BMSD4
File Name 124MSD4.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 06:47:54
Sample Type MSD4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 60.059 | ug/l | 48189.68 |
| Be | 9 | 45 | 1 | NO GAS | 42.799 | ug/l | 12620.35 |
| B | 11 | 45 | 1 | NO GAS | 127.654 | ug/l | 27452.12 |
| Na | 23 | 45 | 3 | He | 51725.876 | ug/l | 4614227.57 |
| Mg | 24 | 45 | 3 | He | 14373.668 | ug/l | 668211.45 |
| Al | 27 | 45 | 1 | NO GAS | 503.151 | ug/l | 1590136.14 |
| Si | 28 | 45 | 2 | H2 | 24561.714 | ug/l | 341764.92 |
| K | 39 | 72 | 3 | He | 7498.016 | ug/l | 343758.93 |
| Ca | 40 | 72 | 2 | H2 | 16637.420 | ug/l | 3451224.85 |
| Ti | 47 | 72 | 1 | NO GAS | 94.538 | ug/l | 90435.25 |
| V | 51 | 72 | 1 | NO GAS | 102.053 | ug/l | 1537158.84 |
| V | 51 | 72 | 3 | He | 111.266 | ug/l | 147635.34 |
| Cr | 52 | 72 | 1 | NO GAS | 94.556 | ug/l | 1312368.14 |
| Cr | 52 | 72 | 3 | He | 107.580 | ug/l | 188872.95 |
| Cr | 53 | 72 | 1 | NO GAS | 167.746 | ug/l | 322112.66 |
| Mn | 55 | 72 | 1 | NO GAS | 471.498 | ug/l | 9893437.96 |
| Mn | 55 | 72 | 3 | He | 515.508 | ug/l | 441628.41 |
| Fe | 56 | 72 | 2 | H2 | 491.906 | ug/l | 584937.55 |
| Fe | 56 | 72 | 3 | He | 535.308 | ug/l | 855490.73 |
| Co | 59 | 72 | 1 | NO GAS | 94.147 | ug/l | 1710625.50 |
| Ni | 60 | 72 | 1 | NO GAS | 93.257 | ug/l | 368255.05 |
| Ni | 60 | 72 | 3 | He | 106.559 | ug/l | 115655.04 |
| Ni | 62 | 72 | 1 | NO GAS | 94.194 | ug/l | 58118.57 |
| Cu | 63 | 72 | 1 | NO GAS | 94.582 | ug/l | 949740.04 |
| Cu | 63 | 72 | 3 | He | 108.158 | ug/l | 351591.79 |
| Cu | 65 | 72 | 1 | NO GAS | 95.998 | ug/l | 478359.06 |
| Zn | 66 | 72 | 1 | NO GAS | 93.112 | ug/l | 308849.93 |
| Zn | 66 | 72 | 3 | He | 102.177 | ug/l | 49058.28 |
| As | 75 | 72 | 1 | NO GAS | 91.402 | ug/l | 331610.87 |
| As | 75 | 72 | 3 | He | 102.366 | ug/l | 31961.36 |
| Se | 78 | 72 | 2 | H2 | 99.295 | ug/l | 10819.37 |
| Br | 79 | 72 | 1 | NO GAS | 1.399 | ug/l | 87067.94 |
| Br | 79 | 72 | 2 | H2 | 2.939 | ug/l | 13205.91 |
| Se | 82 | 72 | 1 | NO GAS | 89.228 | ug/l | 27202.06 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 60544.23 |
| Sr | 88 | 72 | 1 | NO GAS | 222.348 | ug/l | 9129584.71 |
| Sr | 88 | 72 | 3 | He | 245.867 | ug/l | 378740.88 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-------------|
| Mo | 95 | 72 | 1 | NO GAS | 104.670 | ug/l | 921428.66 |
| Mo | 95 | 72 | 3 | He | 121.111 | ug/l | 307981.45 |
| Mo | 98 | 72 | 1 | NO GAS | 106.922 | ug/l | 1610003.90 |
| Ag | 107 | 72 | 1 | NO GAS | 10.135 | ug/l | 254597.80 |
| Ag | 109 | 72 | 1 | NO GAS | 9.975 | ug/l | 246678.84 |
| Cd | 111 | 159 | 1 | NO GAS | 45.578 | ug/l | 294995.83 |
| Cd | 111 | 159 | 3 | He | 49.985 | ug/l | 70819.93 |
| Cd | 114 | 159 | 1 | NO GAS | 45.746 | ug/l | 686403.60 |
| Cd | 114 | 159 | 3 | He | 49.469 | ug/l | 182685.11 |
| Sn | 118 | 159 | 1 | NO GAS | 100.112 | ug/l | 1937428.48 |
| Sn | 118 | 159 | 3 | He | 102.895 | ug/l | 273638.71 |
| Sb | 121 | 159 | 1 | NO GAS | 94.543 | ug/l | 2571569.22 |
| Sb | 121 | 159 | 3 | He | 99.332 | ug/l | 345796.64 |
| Sb | 123 | 159 | 1 | NO GAS | 94.413 | ug/l | 2038868.82 |
| Sb | 123 | 159 | 3 | He | 100.518 | ug/l | 285651.32 |
| Ba | 135 | 159 | 1 | NO GAS | 110.196 | ug/l | 638927.26 |
| Ba | 137 | 159 | 1 | NO GAS | 109.464 | ug/l | 1100835.24 |
| La | 139 | 175 | 1 | NO GAS | 97.843 | ug/l | 9058879.08 |
| La | 139 | 175 | 3 | He | 102.157 | ug/l | 1947774.35 |
| Ce | 140 | 175 | 1 | NO GAS | 96.094 | ug/l | 8826973.12 |
| Ce | 140 | 175 | 3 | He | 101.583 | ug/l | 2455392.78 |
| Hg | 201 | 175 | 1 | NO GAS | 0.031 | ug/l | 163.97 |
| Hg | 202 | 175 | 1 | NO GAS | 0.449 | ug/l | 4814.48 |
| Hg | 202 | 175 | 3 | He | 0.331 | ug/l | 2240.39 |
| Tl | 203 | 175 | 3 | He | 102.914 | ug/l | 1432948.66 |
| Tl | 205 | 175 | 1 | NO GAS | 90.313 | ug/l | 6571219.28 |
| Tl | 205 | 175 | 3 | He | 102.779 | ug/l | 3509786.72 |
| [Pb] | 206 | 175 | 1 | NO GAS | 95.460 | ug/l | 2340707.71 |
| [Pb] | 207 | 175 | 1 | NO GAS | 95.551 | ug/l | 2031988.81 |
| Pb | 208 | 175 | 1 | NO GAS | 96.029 | ug/l | 9345656.72 |
| Th | 232 | 175 | 3 | He | 109.522 | ug/l | 5456010.70 |
| U | 238 | 175 | 1 | NO GAS | 95.820 | ug/l | 10733015.04 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2115330.59 | 101.6 |
| Sc | 45 | 2 | H2 | 82752.83 | 91.1 |
| Sc | 45 | 3 | He | 53903.52 | 98.1 |
| Ge | 72 | 1 | NO GAS | 970035.48 | 108.3 |
| Ge | 72 | 2 | H2 | 130316.57 | 100.7 |
| Ge | 72 | 3 | He | 84224.59 | 99.9 |
| Tb | 159 | 1 | NO GAS | 21197997.04 | 105.3 |
| Tb | 159 | 3 | He | 7206242.14 | 98.1 |
| Ho | 165 | 1 | NO GAS | 19803588.10 | 105.5 |
| Ho | 165 | 3 | He | 7124911.69 | 98.4 |
| Lu | 175 | 1 | NO GAS | 22029246.18 | 110.1 |
| Lu | 175 | 3 | He | 4378479.63 | 99.3 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 125BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 06:54:12
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -1.126 | ug/l | 1597.76 |
| Be | 9 | 45 | 1 | NO GAS | 0.020 | ug/l | 7.00 |
| B | 11 | 45 | 1 | NO GAS | 0.134 | ug/l | 299.95 |
| Na | 23 | 45 | 3 | He | 168.807 | ug/l | 23144.36 |
| Mg | 24 | 45 | 3 | He | 1.911 | ug/l | 153.03 |
| Al | 27 | 45 | 1 | NO GAS | 0.551 | ug/l | 2009.02 |
| Si | 28 | 45 | 2 | H2 | -68.031 | ug/l | 73.99 |
| K | 39 | 72 | 3 | He | 0.741 | ug/l | 2793.59 |
| Ca | 40 | 72 | 2 | H2 | 2.256 | ug/l | 989.55 |
| Ti | 47 | 72 | 1 | NO GAS | 0.016 | ug/l | 49.98 |
| V | 51 | 72 | 1 | NO GAS | 0.238 | ug/l | -20370.17 |
| V | 51 | 72 | 3 | He | -0.059 | ug/l | 234.45 |
| Cr | 52 | 72 | 1 | NO GAS | -0.081 | ug/l | 13775.09 |
| Cr | 52 | 72 | 3 | He | -0.012 | ug/l | 109.78 |
| Cr | 53 | 72 | 1 | NO GAS | -22.620 | ug/l | 101135.75 |
| Mn | 55 | 72 | 1 | NO GAS | 0.016 | ug/l | 1340.74 |
| Mn | 55 | 72 | 3 | He | 0.027 | ug/l | 31.67 |
| Fe | 56 | 72 | 2 | H2 | 0.542 | ug/l | 911.25 |
| Fe | 56 | 72 | 3 | He | 0.572 | ug/l | 1429.36 |
| Co | 59 | 72 | 1 | NO GAS | 0.007 | ug/l | 169.67 |
| Ni | 60 | 72 | 1 | NO GAS | 0.036 | ug/l | 139.72 |
| Ni | 60 | 72 | 3 | He | -0.002 | ug/l | 28.89 |
| Ni | 62 | 72 | 1 | NO GAS | 0.124 | ug/l | 455.77 |
| Cu | 63 | 72 | 1 | NO GAS | 0.023 | ug/l | 663.88 |
| Cu | 63 | 72 | 3 | He | 0.010 | ug/l | 212.96 |
| Cu | 65 | 72 | 1 | NO GAS | 0.007 | ug/l | 259.95 |
| Zn | 66 | 72 | 1 | NO GAS | 0.064 | ug/l | 522.06 |
| Zn | 66 | 72 | 3 | He | 0.054 | ug/l | 82.22 |
| As | 75 | 72 | 1 | NO GAS | -0.346 | ug/l | 2318.36 |
| As | 75 | 72 | 3 | He | 0.015 | ug/l | 10.67 |
| Se | 78 | 72 | 2 | H2 | 0.026 | ug/l | 6.00 |
| Br | 79 | 72 | 1 | NO GAS | -1.351 | ug/l | 60974.17 |
| Br | 79 | 72 | 2 | H2 | -1.620 | ug/l | 8480.45 |
| Se | 82 | 72 | 1 | NO GAS | 0.560 | ug/l | 308.07 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8162.57 |
| Sr | 88 | 72 | 1 | NO GAS | 0.022 | ug/l | 1174.40 |
| Sr | 88 | 72 | 3 | He | 0.027 | ug/l | 258.90 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.020 | ug/l | 243.34 |
| Mo | 95 | 72 | 3 | He | 0.012 | ug/l | 68.89 |
| Mo | 98 | 72 | 1 | NO GAS | 0.012 | ug/l | 307.93 |
| Ag | 107 | 72 | 1 | NO GAS | 0.010 | ug/l | 2023.06 |
| Ag | 109 | 72 | 1 | NO GAS | 0.013 | ug/l | 1989.07 |
| Cd | 111 | 159 | 1 | NO GAS | 0.001 | ug/l | 20.69 |
| Cd | 111 | 159 | 3 | He | 0.007 | ug/l | 13.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.010 | ug/l | -51.75 |
| Cd | 114 | 159 | 3 | He | 0.019 | ug/l | 45.91 |
| Sn | 118 | 159 | 1 | NO GAS | -2.365 | ug/l | 3480.17 |
| Sn | 118 | 159 | 3 | He | -2.448 | ug/l | 595.57 |
| Sb | 121 | 159 | 1 | NO GAS | 0.010 | ug/l | 780.03 |
| Sb | 121 | 159 | 3 | He | 0.010 | ug/l | 107.78 |
| Sb | 123 | 159 | 1 | NO GAS | 0.012 | ug/l | 647.79 |
| Sb | 123 | 159 | 3 | He | 0.018 | ug/l | 98.89 |
| Ba | 135 | 159 | 1 | NO GAS | 0.054 | ug/l | 292.76 |
| Ba | 137 | 159 | 1 | NO GAS | 0.040 | ug/l | 385.91 |
| La | 139 | 175 | 1 | NO GAS | 0.003 | ug/l | 337.02 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 40.04 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 246.92 |
| Ce | 140 | 175 | 3 | He | 0.004 | ug/l | 100.10 |
| Hg | 201 | 175 | 1 | NO GAS | 0.001 | ug/l | 25.33 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 78.98 |
| Hg | 202 | 175 | 3 | He | 0.000 | ug/l | 33.66 |
| Tl | 203 | 175 | 3 | He | 0.356 | ug/l | 5249.88 |
| Tl | 205 | 175 | 1 | NO GAS | 0.297 | ug/l | 20665.37 |
| Tl | 205 | 175 | 3 | He | 0.354 | ug/l | 12832.22 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.011 | ug/l | 311.12 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.012 | ug/l | 277.78 |
| Pb | 208 | 175 | 1 | NO GAS | 0.011 | ug/l | 1212.25 |
| Th | 232 | 175 | 3 | He | 0.059 | ug/l | 4246.44 |
| U | 238 | 175 | 1 | NO GAS | 0.013 | ug/l | 1504.11 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1897446.01 | 91.1 |
| Sc | 45 | 2 | H2 | 80029.77 | 88.1 |
| Sc | 45 | 3 | He | 51695.14 | 94.1 |
| Ge | 72 | 1 | NO GAS | 890332.24 | 99.4 |
| Ge | 72 | 2 | H2 | 125985.77 | 97.3 |
| Ge | 72 | 3 | He | 82547.36 | 97.9 |
| Tb | 159 | 1 | NO GAS | 19444245.54 | 96.6 |
| Tb | 159 | 3 | He | 7268122.50 | 98.9 |
| Ho | 165 | 1 | NO GAS | 17955256.81 | 95.7 |
| Ho | 165 | 3 | He | 7029036.19 | 97.1 |
| Lu | 175 | 1 | NO GAS | 19932396.91 | 99.6 |
| Lu | 175 | 3 | He | 4297698.54 | 97.4 |

ICPMS206-B Analytical Data

Sample Name B22010972-001A
File Name 126SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 06:59:56
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -1.546 | ug/l | 1425.11 |
| Be | 9 | 45 | 1 | NO GAS | 0.004 | ug/l | 3.67 |
| B | 11 | 45 | 1 | NO GAS | 25.052 | ug/l | 6036.52 |
| Na | 23 | 45 | 3 | He | 37151.525 | ug/l | 3669560.08 |
| Mg | 24 | 45 | 3 | He | 14520.531 | ug/l | 747178.23 |
| Al | 27 | 45 | 1 | NO GAS | 3.672 | ug/l | 13041.69 |
| Si | 28 | 45 | 2 | H2 | 24252.863 | ug/l | 420157.41 |
| K | 39 | 72 | 3 | He | 2377.758 | ug/l | 122470.27 |
| Ca | 40 | 72 | 2 | H2 | 17068.764 | ug/l | 4097635.25 |
| Ti | 47 | 72 | 1 | NO GAS | 1.521 | ug/l | 1496.01 |
| V | 51 | 72 | 1 | NO GAS | 10.991 | ug/l | 141653.97 |
| V | 51 | 72 | 3 | He | 9.589 | ug/l | 14372.83 |
| Cr | 52 | 72 | 1 | NO GAS | 1.105 | ug/l | 31287.00 |
| Cr | 52 | 72 | 3 | He | 1.950 | ug/l | 3922.71 |
| Cr | 53 | 72 | 1 | NO GAS | -97.583 | ug/l | 28823.78 |
| Mn | 55 | 72 | 1 | NO GAS | 0.068 | ug/l | 2571.78 |
| Mn | 55 | 72 | 3 | He | 0.105 | ug/l | 109.68 |
| Fe | 56 | 72 | 2 | H2 | 0.722 | ug/l | 1341.07 |
| Fe | 56 | 72 | 3 | He | 0.544 | ug/l | 1562.65 |
| Co | 59 | 72 | 1 | NO GAS | 0.022 | ug/l | 465.75 |
| Ni | 60 | 72 | 1 | NO GAS | 0.401 | ug/l | 1586.93 |
| Ni | 60 | 72 | 3 | He | 0.221 | ug/l | 301.12 |
| Ni | 62 | 72 | 1 | NO GAS | 0.224 | ug/l | 565.56 |
| Cu | 63 | 72 | 1 | NO GAS | 1.062 | ug/l | 11114.82 |
| Cu | 63 | 72 | 3 | He | 0.632 | ug/l | 2469.02 |
| Cu | 65 | 72 | 1 | NO GAS | 0.670 | ug/l | 3559.68 |
| Zn | 66 | 72 | 1 | NO GAS | 9.411 | ug/l | 31344.09 |
| Zn | 66 | 72 | 3 | He | 9.863 | ug/l | 5287.54 |
| As | 75 | 72 | 1 | NO GAS | 0.716 | ug/l | 6481.01 |
| As | 75 | 72 | 3 | He | 0.475 | ug/l | 170.63 |
| Se | 78 | 72 | 2 | H2 | 0.064 | ug/l | 12.00 |
| Br | 79 | 72 | 1 | NO GAS | 20.130 | ug/l | 218914.59 |
| Br | 79 | 72 | 2 | H2 | 19.847 | ug/l | 34327.98 |
| Se | 82 | 72 | 1 | NO GAS | 1.371 | ug/l | 613.51 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 37168.12 |
| Sr | 88 | 72 | 1 | NO GAS | 120.078 | ug/l | 4908988.14 |
| Sr | 88 | 72 | 3 | He | 122.360 | ug/l | 208271.10 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.728 | ug/l | 6455.77 |
| Mo | 95 | 72 | 3 | He | 0.771 | ug/l | 2207.94 |
| Mo | 98 | 72 | 1 | NO GAS | 0.737 | ug/l | 11179.44 |
| Ag | 107 | 72 | 1 | NO GAS | -0.069 | ug/l | 263.28 |
| Ag | 109 | 72 | 1 | NO GAS | -0.066 | ug/l | 254.62 |
| Cd | 111 | 159 | 1 | NO GAS | -0.002 | ug/l | -2.79 |
| Cd | 111 | 159 | 3 | He | 0.000 | ug/l | 4.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.016 | ug/l | 9.61 |
| Cd | 114 | 159 | 3 | He | 0.009 | ug/l | 8.22 |
| Sn | 118 | 159 | 1 | NO GAS | -2.477 | ug/l | 1720.03 |
| Sn | 118 | 159 | 3 | He | -2.577 | ug/l | 263.34 |
| Sb | 121 | 159 | 1 | NO GAS | -0.003 | ug/l | 495.57 |
| Sb | 121 | 159 | 3 | He | 0.003 | ug/l | 85.55 |
| Sb | 123 | 159 | 1 | NO GAS | 0.000 | ug/l | 444.45 |
| Sb | 123 | 159 | 3 | He | 0.006 | ug/l | 66.67 |
| Ba | 135 | 159 | 1 | NO GAS | 6.145 | ug/l | 33502.24 |
| Ba | 137 | 159 | 1 | NO GAS | 6.174 | ug/l | 58381.00 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 156.83 |
| La | 139 | 175 | 3 | He | 0.003 | ug/l | 63.40 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 186.86 |
| Ce | 140 | 175 | 3 | He | 0.003 | ug/l | 76.74 |
| Hg | 201 | 175 | 1 | NO GAS | 0.000 | ug/l | 20.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.000 | ug/l | 85.65 |
| Hg | 202 | 175 | 3 | He | 0.002 | ug/l | 50.66 |
| Tl | 203 | 175 | 3 | He | 0.271 | ug/l | 4247.77 |
| Tl | 205 | 175 | 1 | NO GAS | 0.205 | ug/l | 15782.90 |
| Tl | 205 | 175 | 3 | He | 0.274 | ug/l | 10566.27 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.003 | ug/l | 140.00 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.003 | ug/l | 116.67 |
| Pb | 208 | 175 | 1 | NO GAS | 0.004 | ug/l | 587.79 |
| Th | 232 | 175 | 3 | He | -0.004 | ug/l | 1169.82 |
| U | 238 | 175 | 1 | NO GAS | 0.032 | ug/l | 3550.05 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2277644.53 | 109.4 |
| Sc | 45 | 2 | H2 | 103008.25 | 113.4 |
| Sc | 45 | 3 | He | 59669.91 | 108.6 |
| Ge | 72 | 1 | NO GAS | 971779.90 | 108.5 |
| Ge | 72 | 2 | H2 | 150788.05 | 116.5 |
| Ge | 72 | 3 | He | 92992.39 | 110.3 |
| Tb | 159 | 1 | NO GAS | 20020687.28 | 99.5 |
| Tb | 159 | 3 | He | 7447267.00 | 101.4 |
| Ho | 165 | 1 | NO GAS | 19039752.42 | 101.4 |
| Ho | 165 | 3 | He | 7214526.09 | 99.6 |
| Lu | 175 | 1 | NO GAS | 20869679.78 | 104.3 |
| Lu | 175 | 3 | He | 4474526.09 | 101.4 |

ICPMS206-B Analytical Data

Sample Name B22010972-001B
File Name 127SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 07:05:40
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -1.129 | ug/l | 1748.41 |
| Be | 9 | 45 | 1 | NO GAS | 0.027 | ug/l | 8.67 |
| B | 11 | 45 | 1 | NO GAS | 24.862 | ug/l | 4989.74 |
| Na | 23 | 45 | 3 | He | 37714.437 | ug/l | 2924836.83 |
| Mg | 24 | 45 | 3 | He | 14708.653 | ug/l | 593958.05 |
| Al | 27 | 45 | 1 | NO GAS | 64.487 | ug/l | 182291.33 |
| Si | 28 | 45 | 2 | H2 | 24298.392 | ug/l | 290142.91 |
| K | 39 | 72 | 3 | He | 2254.929 | ug/l | 94298.65 |
| Ca | 40 | 72 | 2 | H2 | 15183.684 | ug/l | 2815160.40 |
| Ti | 47 | 72 | 1 | NO GAS | 7.990 | ug/l | 6716.40 |
| V | 51 | 72 | 1 | NO GAS | 8.562 | ug/l | 92357.26 |
| V | 51 | 72 | 3 | He | 9.729 | ug/l | 11819.75 |
| Cr | 52 | 72 | 1 | NO GAS | 2.420 | ug/l | 43386.58 |
| Cr | 52 | 72 | 3 | He | 2.293 | ug/l | 3723.06 |
| Cr | 53 | 72 | 1 | NO GAS | 51.890 | ug/l | 170310.58 |
| Mn | 55 | 72 | 1 | NO GAS | 0.847 | ug/l | 16562.18 |
| Mn | 55 | 72 | 3 | He | 0.847 | ug/l | 658.08 |
| Fe | 56 | 72 | 2 | H2 | 50.669 | ug/l | 54164.43 |
| Fe | 56 | 72 | 3 | He | 59.669 | ug/l | 85818.97 |
| Co | 59 | 72 | 1 | NO GAS | 0.065 | ug/l | 1094.54 |
| Ni | 60 | 72 | 1 | NO GAS | 0.715 | ug/l | 2508.58 |
| Ni | 60 | 72 | 3 | He | 0.453 | ug/l | 468.90 |
| Ni | 62 | 72 | 1 | NO GAS | 0.438 | ug/l | 608.81 |
| Cu | 63 | 72 | 1 | NO GAS | 0.749 | ug/l | 7037.44 |
| Cu | 63 | 72 | 3 | He | 0.206 | ug/l | 762.87 |
| Cu | 65 | 72 | 1 | NO GAS | 0.284 | ug/l | 1461.78 |
| Zn | 66 | 72 | 1 | NO GAS | 14.111 | ug/l | 41345.41 |
| Zn | 66 | 72 | 3 | He | 14.721 | ug/l | 6372.38 |
| As | 75 | 72 | 1 | NO GAS | 0.974 | ug/l | 6493.29 |
| As | 75 | 72 | 3 | He | 0.515 | ug/l | 149.64 |
| Se | 78 | 72 | 2 | H2 | 0.109 | ug/l | 13.67 |
| Br | 79 | 72 | 1 | NO GAS | 3.133 | ug/l | 87407.79 |
| Br | 79 | 72 | 2 | H2 | 4.743 | ug/l | 13379.02 |
| Se | 82 | 72 | 1 | NO GAS | 1.373 | ug/l | 531.65 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 34454.47 |
| Sr | 88 | 72 | 1 | NO GAS | 130.105 | ug/l | 4686973.72 |
| Sr | 88 | 72 | 3 | He | 132.160 | ug/l | 182398.19 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 1.212 | ug/l | 9442.81 |
| Mo | 95 | 72 | 3 | He | 1.315 | ug/l | 3029.19 |
| Mo | 98 | 72 | 1 | NO GAS | 1.241 | ug/l | 16530.32 |
| Ag | 107 | 72 | 1 | NO GAS | 0.542 | ug/l | 13599.02 |
| Ag | 109 | 72 | 1 | NO GAS | 0.539 | ug/l | 13246.81 |
| Cd | 111 | 159 | 1 | NO GAS | -0.001 | ug/l | 7.43 |
| Cd | 111 | 159 | 3 | He | -0.001 | ug/l | 1.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.008 | ug/l | -109.60 |
| Cd | 114 | 159 | 3 | He | 0.008 | ug/l | 3.87 |
| Sn | 118 | 159 | 1 | NO GAS | -2.122 | ug/l | 8361.23 |
| Sn | 118 | 159 | 3 | He | -2.275 | ug/l | 1016.71 |
| Sb | 121 | 159 | 1 | NO GAS | 0.014 | ug/l | 967.82 |
| Sb | 121 | 159 | 3 | He | 0.027 | ug/l | 162.23 |
| Sb | 123 | 159 | 1 | NO GAS | 0.018 | ug/l | 843.36 |
| Sb | 123 | 159 | 3 | He | 0.036 | ug/l | 146.67 |
| Ba | 135 | 159 | 1 | NO GAS | 5.720 | ug/l | 32465.50 |
| Ba | 137 | 159 | 1 | NO GAS | 5.705 | ug/l | 56178.25 |
| La | 139 | 175 | 1 | NO GAS | 0.016 | ug/l | 1471.58 |
| La | 139 | 175 | 3 | He | 0.015 | ug/l | 293.64 |
| Ce | 140 | 175 | 1 | NO GAS | 0.036 | ug/l | 3183.59 |
| Ce | 140 | 175 | 3 | He | 0.034 | ug/l | 807.52 |
| Hg | 201 | 175 | 1 | NO GAS | 0.003 | ug/l | 37.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.008 | ug/l | 167.63 |
| Hg | 202 | 175 | 3 | He | 0.007 | ug/l | 81.65 |
| Tl | 203 | 175 | 3 | He | 0.113 | ug/l | 1935.08 |
| Tl | 205 | 175 | 1 | NO GAS | 0.073 | ug/l | 6915.00 |
| Tl | 205 | 175 | 3 | He | 0.112 | ug/l | 4727.15 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.025 | ug/l | 644.46 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.022 | ug/l | 513.35 |
| Pb | 208 | 175 | 1 | NO GAS | 0.022 | ug/l | 2304.53 |
| Th | 232 | 175 | 3 | He | 0.114 | ug/l | 6912.25 |
| U | 238 | 175 | 1 | NO GAS | 0.036 | ug/l | 4040.75 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1895263.21 | 91.0 |
| Sc | 45 | 2 | H2 | 71025.92 | 78.2 |
| Sc | 45 | 3 | He | 46845.79 | 85.3 |
| Ge | 72 | 1 | NO GAS | 854579.07 | 95.4 |
| Ge | 72 | 2 | H2 | 116586.37 | 90.0 |
| Ge | 72 | 3 | He | 75407.54 | 89.5 |
| Tb | 159 | 1 | NO GAS | 20800748.35 | 103.4 |
| Tb | 159 | 3 | He | 7060510.05 | 96.1 |
| Ho | 165 | 1 | NO GAS | 19094043.37 | 101.7 |
| Ho | 165 | 3 | He | 6901951.71 | 95.3 |
| Lu | 175 | 1 | NO GAS | 21157172.26 | 105.7 |
| Lu | 175 | 3 | He | 4306763.33 | 97.6 |

ICPMS206-B Analytical Data

Sample Name B22010973-001A
File Name 128SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 07:11:23
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -1.930 | ug/l | 1027.83 |
| Be | 9 | 45 | 1 | NO GAS | 0.009 | ug/l | 4.33 |
| B | 11 | 45 | 1 | NO GAS | 71.355 | ug/l | 13667.40 |
| Na | 23 | 45 | 3 | He | 41820.887 | ug/l | 4049514.97 |
| Mg | 24 | 45 | 3 | He | 12677.852 | ug/l | 639690.61 |
| Al | 27 | 45 | 1 | NO GAS | 1.899 | ug/l | 5764.34 |
| Si | 28 | 45 | 2 | H2 | 9900.838 | ug/l | 166145.46 |
| K | 39 | 72 | 3 | He | 3441.129 | ug/l | 176685.78 |
| Ca | 40 | 72 | 2 | H2 | 13360.787 | ug/l | 3057083.59 |
| Ti | 47 | 72 | 1 | NO GAS | 0.593 | ug/l | 576.39 |
| V | 51 | 72 | 1 | NO GAS | 1.690 | ug/l | 326.27 |
| V | 51 | 72 | 3 | He | -0.092 | ug/l | 217.78 |
| Cr | 52 | 72 | 1 | NO GAS | -0.502 | ug/l | 8961.34 |
| Cr | 52 | 72 | 3 | He | 0.066 | ug/l | 276.13 |
| Cr | 53 | 72 | 1 | NO GAS | -102.812 | ug/l | 22123.73 |
| Mn | 55 | 72 | 1 | NO GAS | 25.253 | ug/l | 495825.72 |
| Mn | 55 | 72 | 3 | He | 25.690 | ug/l | 24422.65 |
| Fe | 56 | 72 | 2 | H2 | 21.040 | ug/l | 27872.73 |
| Fe | 56 | 72 | 3 | He | 21.423 | ug/l | 38579.99 |
| Co | 59 | 72 | 1 | NO GAS | 0.032 | ug/l | 595.50 |
| Ni | 60 | 72 | 1 | NO GAS | 0.361 | ug/l | 1340.74 |
| Ni | 60 | 72 | 3 | He | 0.243 | ug/l | 328.89 |
| Ni | 62 | 72 | 1 | NO GAS | 0.189 | ug/l | 538.95 |
| Cu | 63 | 72 | 1 | NO GAS | 0.748 | ug/l | 7526.88 |
| Cu | 63 | 72 | 3 | He | 0.224 | ug/l | 1013.17 |
| Cu | 65 | 72 | 1 | NO GAS | 0.259 | ug/l | 1451.11 |
| Zn | 66 | 72 | 1 | NO GAS | 3.565 | ug/l | 11416.90 |
| Zn | 66 | 72 | 3 | He | 3.723 | ug/l | 2043.48 |
| As | 75 | 72 | 1 | NO GAS | 0.357 | ug/l | 5057.85 |
| As | 75 | 72 | 3 | He | 0.160 | ug/l | 62.32 |
| Se | 78 | 72 | 2 | H2 | 0.055 | ug/l | 10.33 |
| Br | 79 | 72 | 1 | NO GAS | 9.225 | ug/l | 133205.86 |
| Br | 79 | 72 | 2 | H2 | 9.786 | ug/l | 21918.02 |
| Se | 82 | 72 | 1 | NO GAS | 0.759 | ug/l | 415.20 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 28494.63 |
| Sr | 88 | 72 | 1 | NO GAS | 91.475 | ug/l | 3522292.77 |
| Sr | 88 | 72 | 3 | He | 87.896 | ug/l | 150401.51 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 16.902 | ug/l | 138782.27 |
| Mo | 95 | 72 | 3 | He | 16.881 | ug/l | 47656.99 |
| Mo | 98 | 72 | 1 | NO GAS | 16.550 | ug/l | 232234.90 |
| Ag | 107 | 72 | 1 | NO GAS | -0.077 | ug/l | 63.32 |
| Ag | 109 | 72 | 1 | NO GAS | -0.073 | ug/l | 71.98 |
| Cd | 111 | 159 | 1 | NO GAS | 0.001 | ug/l | 11.12 |
| Cd | 111 | 159 | 3 | He | 0.009 | ug/l | 16.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.024 | ug/l | 105.17 |
| Cd | 114 | 159 | 3 | He | 0.016 | ug/l | 35.48 |
| Sn | 118 | 159 | 1 | NO GAS | -2.426 | ug/l | 2488.63 |
| Sn | 118 | 159 | 3 | He | -2.549 | ug/l | 340.01 |
| Sb | 121 | 159 | 1 | NO GAS | 0.036 | ug/l | 1327.84 |
| Sb | 121 | 159 | 3 | He | 0.024 | ug/l | 161.11 |
| Sb | 123 | 159 | 1 | NO GAS | 0.037 | ug/l | 1051.15 |
| Sb | 123 | 159 | 3 | He | 0.038 | ug/l | 163.34 |
| Ba | 135 | 159 | 1 | NO GAS | 2.378 | ug/l | 11704.45 |
| Ba | 137 | 159 | 1 | NO GAS | 2.402 | ug/l | 20336.28 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 130.13 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 30.03 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 223.57 |
| Ce | 140 | 175 | 3 | He | 0.003 | ug/l | 83.42 |
| Hg | 201 | 175 | 1 | NO GAS | 0.001 | ug/l | 23.00 |
| Hg | 202 | 175 | 1 | NO GAS | 0.025 | ug/l | 292.28 |
| Hg | 202 | 175 | 3 | He | 0.018 | ug/l | 157.30 |
| Tl | 203 | 175 | 3 | He | 0.129 | ug/l | 2218.40 |
| Tl | 205 | 175 | 1 | NO GAS | 0.117 | ug/l | 8758.18 |
| Tl | 205 | 175 | 3 | He | 0.133 | ug/l | 5633.28 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.014 | ug/l | 360.01 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.012 | ug/l | 261.11 |
| Pb | 208 | 175 | 1 | NO GAS | 0.013 | ug/l | 1282.26 |
| Th | 232 | 175 | 3 | He | -0.014 | ug/l | 683.22 |
| U | 238 | 175 | 1 | NO GAS | 0.007 | ug/l | 838.86 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2077201.94 | 99.8 |
| Sc | 45 | 2 | H2 | 99297.16 | 109.3 |
| Sc | 45 | 3 | He | 58481.60 | 106.5 |
| Ge | 72 | 1 | NO GAS | 971566.89 | 108.5 |
| Ge | 72 | 2 | H2 | 143695.04 | 111.0 |
| Ge | 72 | 3 | He | 93461.69 | 110.9 |
| Tb | 159 | 1 | NO GAS | 19874735.29 | 98.8 |
| Tb | 159 | 3 | He | 7482455.89 | 101.8 |
| Ho | 165 | 1 | NO GAS | 18876155.28 | 100.6 |
| Ho | 165 | 3 | He | 7325530.95 | 101.2 |
| Lu | 175 | 1 | NO GAS | 20458449.71 | 102.2 |
| Lu | 175 | 3 | He | 4455255.36 | 101.0 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 129_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 07:17:08
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 335.828 | ug/l | 239165.82 |
| Be | 9 | 45 | 1 | NO GAS | 43.391 | ug/l | 10961.90 |
| B | 11 | 45 | 1 | NO GAS | 43.884 | ug/l | 8250.36 |
| Na | 23 | 45 | 3 | He | 11350.143 | ug/l | 912980.35 |
| Mg | 24 | 45 | 3 | He | 11254.512 | ug/l | 468638.05 |
| Al | 27 | 45 | 1 | NO GAS | 44.410 | ug/l | 120574.76 |
| Si | 28 | 45 | 2 | H2 | 182.651 | ug/l | 3141.01 |
| K | 39 | 72 | 3 | He | 10455.004 | ug/l | 442106.46 |
| Ca | 40 | 72 | 2 | H2 | 11092.975 | ug/l | 2023790.85 |
| Ti | 47 | 72 | 1 | NO GAS | 45.037 | ug/l | 38790.09 |
| V | 51 | 72 | 1 | NO GAS | 43.411 | ug/l | 575456.95 |
| V | 51 | 72 | 3 | He | 47.730 | ug/l | 58747.39 |
| Cr | 52 | 72 | 1 | NO GAS | 44.201 | ug/l | 560224.83 |
| Cr | 52 | 72 | 3 | He | 49.500 | ug/l | 80428.54 |
| Cr | 53 | 72 | 1 | NO GAS | 33.883 | ug/l | 156780.09 |
| Mn | 55 | 72 | 1 | NO GAS | 44.747 | ug/l | 845825.35 |
| Mn | 55 | 72 | 3 | He | 47.264 | ug/l | 37444.56 |
| Fe | 56 | 72 | 2 | H2 | 1123.887 | ug/l | 1174188.32 |
| Fe | 56 | 72 | 3 | He | 1244.387 | ug/l | 1838137.59 |
| Co | 59 | 72 | 1 | NO GAS | 45.453 | ug/l | 743150.32 |
| Ni | 60 | 72 | 1 | NO GAS | 46.177 | ug/l | 164120.94 |
| Ni | 60 | 72 | 3 | He | 51.592 | ug/l | 51792.99 |
| Ni | 62 | 72 | 1 | NO GAS | 47.619 | ug/l | 26631.70 |
| Cu | 63 | 72 | 1 | NO GAS | 47.918 | ug/l | 433225.53 |
| Cu | 63 | 72 | 3 | He | 51.610 | ug/l | 155238.62 |
| Cu | 65 | 72 | 1 | NO GAS | 47.414 | ug/l | 212694.08 |
| Zn | 66 | 72 | 1 | NO GAS | 47.200 | ug/l | 141017.29 |
| Zn | 66 | 72 | 3 | He | 50.916 | ug/l | 22635.42 |
| As | 75 | 72 | 1 | NO GAS | 47.444 | ug/l | 156584.77 |
| As | 75 | 72 | 3 | He | 50.550 | ug/l | 14597.79 |
| Se | 78 | 72 | 2 | H2 | 55.187 | ug/l | 5286.13 |
| Br | 79 | 72 | 1 | NO GAS | 0.793 | ug/l | 74489.34 |
| Br | 79 | 72 | 2 | H2 | 1.624 | ug/l | 10505.98 |
| Se | 82 | 72 | 1 | NO GAS | 49.761 | ug/l | 13725.01 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 18490.45 |
| Sr | 88 | 72 | 1 | NO GAS | 51.460 | ug/l | 1901676.94 |
| Sr | 88 | 72 | 3 | He | 52.733 | ug/l | 75286.01 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 50.696 | ug/l | 401655.45 |
| Mo | 95 | 72 | 3 | He | 54.961 | ug/l | 129274.11 |
| Mo | 98 | 72 | 1 | NO GAS | 50.308 | ug/l | 681590.42 |
| Ag | 107 | 72 | 1 | NO GAS | 20.676 | ug/l | 465674.82 |
| Ag | 109 | 72 | 1 | NO GAS | 20.782 | ug/l | 460778.11 |
| Cd | 111 | 159 | 1 | NO GAS | 46.603 | ug/l | 279800.01 |
| Cd | 111 | 159 | 3 | He | 49.196 | ug/l | 66691.95 |
| Cd | 114 | 159 | 1 | NO GAS | 46.571 | ug/l | 648596.56 |
| Cd | 114 | 159 | 3 | He | 48.282 | ug/l | 170562.56 |
| Sn | 118 | 159 | 1 | NO GAS | 45.714 | ug/l | 845226.50 |
| Sn | 118 | 159 | 3 | He | 46.455 | ug/l | 121843.10 |
| Sb | 121 | 159 | 1 | NO GAS | 45.770 | ug/l | 1155517.11 |
| Sb | 121 | 159 | 3 | He | 48.144 | ug/l | 160375.19 |
| Sb | 123 | 159 | 1 | NO GAS | 45.367 | ug/l | 908999.56 |
| Sb | 123 | 159 | 3 | He | 47.978 | ug/l | 130449.44 |
| Ba | 135 | 159 | 1 | NO GAS | 46.675 | ug/l | 251015.73 |
| Ba | 137 | 159 | 1 | NO GAS | 47.201 | ug/l | 440453.33 |
| La | 139 | 175 | 1 | NO GAS | 47.601 | ug/l | 4034172.11 |
| La | 139 | 175 | 3 | He | 47.314 | ug/l | 853984.59 |
| Ce | 140 | 175 | 1 | NO GAS | 47.674 | ug/l | 4009319.18 |
| Ce | 140 | 175 | 3 | He | 47.263 | ug/l | 1081416.88 |
| Hg | 201 | 175 | 1 | NO GAS | 0.983 | ug/l | 4143.41 |
| Hg | 202 | 175 | 1 | NO GAS | 0.967 | ug/l | 9413.71 |
| Hg | 202 | 175 | 3 | He | 1.033 | ug/l | 6553.11 |
| Tl | 203 | 175 | 3 | He | 51.338 | ug/l | 676926.30 |
| Tl | 205 | 175 | 1 | NO GAS | 48.203 | ug/l | 3211253.22 |
| Tl | 205 | 175 | 3 | He | 51.970 | ug/l | 1680539.07 |
| [Pb] | 206 | 175 | 1 | NO GAS | 48.283 | ug/l | 1084045.98 |
| [Pb] | 207 | 175 | 1 | NO GAS | 47.785 | ug/l | 930462.06 |
| Pb | 208 | 175 | 1 | NO GAS | 48.332 | ug/l | 4306991.55 |
| Th | 232 | 175 | 3 | He | 53.022 | ug/l | 2501964.27 |
| U | 238 | 175 | 1 | NO GAS | 48.294 | ug/l | 4951372.02 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1812362.64 | 87.1 |
| Sc | 45 | 2 | H2 | 73134.71 | 80.5 |
| Sc | 45 | 3 | He | 48282.19 | 87.9 |
| Ge | 72 | 1 | NO GAS | 872828.10 | 97.4 |
| Ge | 72 | 2 | H2 | 114661.70 | 88.6 |
| Ge | 72 | 3 | He | 77876.45 | 92.4 |
| Tb | 159 | 1 | NO GAS | 1965598.87 | 97.7 |
| Tb | 159 | 3 | He | 6894775.00 | 93.8 |
| Ho | 165 | 1 | NO GAS | 18426234.34 | 98.2 |
| Ho | 165 | 3 | He | 6754646.34 | 93.3 |
| Lu | 175 | 1 | NO GAS | 20172676.34 | 100.8 |
| Lu | 175 | 3 | He | 4144878.74 | 94.0 |

ICPMS206-B Analytical Data

Sample Name CCB
File Name 130_CCB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 07:22:48
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -1.319 | ug/l | 1553.76 |
| Be | 9 | 45 | 1 | NO GAS | 0.009 | ug/l | 4.00 |
| B | 11 | 45 | 1 | NO GAS | -0.090 | ug/l | 255.28 |
| Na | 23 | 45 | 3 | He | 3.892 | ug/l | 8196.43 |
| Mg | 24 | 45 | 3 | He | -0.061 | ug/l | 59.88 |
| Al | 27 | 45 | 1 | NO GAS | 0.006 | ug/l | 506.68 |
| Si | 28 | 45 | 2 | H2 | -70.784 | ug/l | 41.32 |
| K | 39 | 72 | 3 | He | 0.146 | ug/l | 2526.87 |
| Ca | 40 | 72 | 2 | H2 | -0.012 | ug/l | 574.73 |
| Ti | 47 | 72 | 1 | NO GAS | 0.001 | ug/l | 38.32 |
| V | 51 | 72 | 1 | NO GAS | 0.455 | ug/l | -16609.60 |
| V | 51 | 72 | 3 | He | -0.024 | ug/l | 255.56 |
| Cr | 52 | 72 | 1 | NO GAS | -0.140 | ug/l | 12936.14 |
| Cr | 52 | 72 | 3 | He | 0.015 | ug/l | 143.05 |
| Cr | 53 | 72 | 1 | NO GAS | -19.144 | ug/l | 103706.15 |
| Mn | 55 | 72 | 1 | NO GAS | 0.004 | ug/l | 1097.87 |
| Mn | 55 | 72 | 3 | He | 0.001 | ug/l | 9.33 |
| Fe | 56 | 72 | 2 | H2 | 0.012 | ug/l | 321.51 |
| Fe | 56 | 72 | 3 | He | 0.076 | ug/l | 596.39 |
| Co | 59 | 72 | 1 | NO GAS | 0.002 | ug/l | 83.17 |
| Ni | 60 | 72 | 1 | NO GAS | 0.010 | ug/l | 53.23 |
| Ni | 60 | 72 | 3 | He | -0.015 | ug/l | 14.44 |
| Ni | 62 | 72 | 1 | NO GAS | -0.144 | ug/l | 302.74 |
| Cu | 63 | 72 | 1 | NO GAS | -0.001 | ug/l | 449.92 |
| Cu | 63 | 72 | 3 | He | -0.007 | ug/l | 144.97 |
| Cu | 65 | 72 | 1 | NO GAS | -0.005 | ug/l | 208.63 |
| Zn | 66 | 72 | 1 | NO GAS | -0.012 | ug/l | 282.55 |
| Zn | 66 | 72 | 3 | He | -0.033 | ug/l | 37.78 |
| As | 75 | 72 | 1 | NO GAS | 0.125 | ug/l | 3924.51 |
| As | 75 | 72 | 3 | He | -0.002 | ug/l | 5.00 |
| Se | 78 | 72 | 2 | H2 | 0.005 | ug/l | 4.00 |
| Br | 79 | 72 | 1 | NO GAS | 0.270 | ug/l | 70944.22 |
| Br | 79 | 72 | 2 | H2 | -1.564 | ug/l | 9177.78 |
| Se | 82 | 72 | 1 | NO GAS | 0.789 | ug/l | 388.58 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8219.11 |
| Sr | 88 | 72 | 1 | NO GAS | 0.002 | ug/l | 452.44 |
| Sr | 88 | 72 | 3 | He | -0.006 | ug/l | 191.12 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.016 | ug/l | 215.56 |
| Mo | 95 | 72 | 3 | He | 0.010 | ug/l | 56.67 |
| Mo | 98 | 72 | 1 | NO GAS | 0.011 | ug/l | 302.23 |
| Ag | 107 | 72 | 1 | NO GAS | 0.004 | ug/l | 1870.41 |
| Ag | 109 | 72 | 1 | NO GAS | 0.002 | ug/l | 1735.75 |
| Cd | 111 | 159 | 1 | NO GAS | -0.005 | ug/l | -17.17 |
| Cd | 111 | 159 | 3 | He | -0.001 | ug/l | 2.00 |
| Cd | 114 | 159 | 1 | NO GAS | -0.003 | ug/l | -251.36 |
| Cd | 114 | 159 | 3 | He | -0.005 | ug/l | -41.24 |
| Sn | 118 | 159 | 1 | NO GAS | -0.006 | ug/l | 44617.16 |
| Sn | 118 | 159 | 3 | He | 0.028 | ug/l | 6687.00 |
| Sb | 121 | 159 | 1 | NO GAS | 0.034 | ug/l | 1400.08 |
| Sb | 121 | 159 | 3 | He | 0.023 | ug/l | 146.67 |
| Sb | 123 | 159 | 1 | NO GAS | 0.035 | ug/l | 1132.27 |
| Sb | 123 | 159 | 3 | He | 0.032 | ug/l | 133.34 |
| Ba | 135 | 159 | 1 | NO GAS | 0.011 | ug/l | 79.84 |
| Ba | 137 | 159 | 1 | NO GAS | 0.006 | ug/l | 99.80 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 103.44 |
| La | 139 | 175 | 3 | He | 0.000 | ug/l | 13.35 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 150.15 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 36.70 |
| Hg | 201 | 175 | 1 | NO GAS | 0.002 | ug/l | 32.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.004 | ug/l | 120.64 |
| Hg | 202 | 175 | 3 | He | 0.002 | ug/l | 48.32 |
| Tl | 203 | 175 | 3 | He | 0.081 | ug/l | 1419.12 |
| Tl | 205 | 175 | 1 | NO GAS | 0.063 | ug/l | 5898.99 |
| Tl | 205 | 175 | 3 | He | 0.080 | ug/l | 3474.39 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.001 | ug/l | 94.45 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.000 | ug/l | 68.89 |
| Pb | 208 | 175 | 1 | NO GAS | 0.001 | ug/l | 353.34 |
| Th | 232 | 175 | 3 | He | 0.039 | ug/l | 3109.72 |
| U | 238 | 175 | 1 | NO GAS | 0.003 | ug/l | 529.90 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1847973.82 | 88.8 |
| Sc | 45 | 2 | H2 | 90468.98 | 99.6 |
| Sc | 45 | 3 | He | 46742.13 | 85.1 |
| Ge | 72 | 1 | NO GAS | 870243.34 | 97.1 |
| Ge | 72 | 2 | H2 | 137036.01 | 105.8 |
| Ge | 72 | 3 | He | 75353.06 | 89.4 |
| Tb | 159 | 1 | NO GAS | 1951744.75 | 97.0 |
| Tb | 159 | 3 | He | 6877658.72 | 93.6 |
| Ho | 165 | 1 | NO GAS | 18375843.11 | 97.9 |
| Ho | 165 | 3 | He | 6692171.83 | 92.4 |
| Lu | 175 | 1 | NO GAS | 20284527.15 | 101.3 |
| Lu | 175 | 3 | He | 4098382.19 | 92.9 |

ICPMS206-B Analytical Data

Sample Name B22010973-001ADIL
File Name 131_ARF.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 07:28:36
Sample Type AllRef
Total Dilution 5.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -8.217 | ug/l | 1349.79 |
| Be | 9 | 45 | 1 | NO GAS | 0.005 | ug/l | 2.00 |
| B | 11 | 45 | 1 | NO GAS | 59.500 | ug/l | 2461.69 |
| Na | 23 | 45 | 3 | He | 40234.385 | ug/l | 630272.14 |
| Mg | 24 | 45 | 3 | He | 12173.083 | ug/l | 98393.07 |
| Al | 27 | 45 | 1 | NO GAS | 6.185 | ug/l | 3871.58 |
| Si | 28 | 45 | 2 | H2 | 9349.686 | ug/l | 23765.77 |
| K | 39 | 72 | 3 | He | 3227.617 | ug/l | 29624.70 |
| Ca | 40 | 72 | 2 | H2 | 11886.972 | ug/l | 443893.91 |
| Ti | 47 | 72 | 1 | NO GAS | 0.972 | ug/l | 208.23 |
| V | 51 | 72 | 1 | NO GAS | 1.904 | ug/l | -17931.41 |
| V | 51 | 72 | 3 | He | -0.198 | ug/l | 244.45 |
| Cr | 52 | 72 | 1 | NO GAS | -1.210 | ug/l | 11900.75 |
| Cr | 52 | 72 | 3 | He | 0.156 | ug/l | 172.99 |
| Cr | 53 | 72 | 1 | NO GAS | -153.707 | ug/l | 93926.88 |
| Mn | 55 | 72 | 1 | NO GAS | 23.413 | ug/l | 90854.04 |
| Mn | 55 | 72 | 3 | He | 25.277 | ug/l | 3998.21 |
| Fe | 56 | 72 | 2 | H2 | 20.030 | ug/l | 4555.07 |
| Fe | 56 | 72 | 3 | He | 22.804 | ug/l | 7214.67 |
| Co | 59 | 72 | 1 | NO GAS | 0.047 | ug/l | 216.24 |
| Ni | 60 | 72 | 1 | NO GAS | 0.363 | ug/l | 279.45 |
| Ni | 60 | 72 | 3 | He | 0.200 | ug/l | 68.89 |
| Ni | 62 | 72 | 1 | NO GAS | -0.015 | ug/l | 385.91 |
| Cu | 63 | 72 | 1 | NO GAS | 0.853 | ug/l | 2026.39 |
| Cu | 63 | 72 | 3 | He | 0.393 | ug/l | 404.59 |
| Cu | 65 | 72 | 1 | NO GAS | 0.403 | ug/l | 600.56 |
| Zn | 66 | 72 | 1 | NO GAS | 7.605 | ug/l | 4930.54 |
| Zn | 66 | 72 | 3 | He | 8.823 | ug/l | 832.25 |
| As | 75 | 72 | 1 | NO GAS | 0.135 | ug/l | 3659.40 |
| As | 75 | 72 | 3 | He | 0.154 | ug/l | 14.67 |
| Se | 78 | 72 | 2 | H2 | 0.015 | ug/l | 3.33 |
| Br | 79 | 72 | 1 | NO GAS | 10.894 | ug/l | 84678.37 |
| Br | 79 | 72 | 2 | H2 | 14.001 | ug/l | 11750.97 |
| Se | 82 | 72 | 1 | NO GAS | 4.707 | ug/l | 437.83 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 11354.80 |
| Sr | 88 | 72 | 1 | NO GAS | 85.265 | ug/l | 640503.31 |
| Sr | 88 | 72 | 3 | He | 92.321 | ug/l | 26405.66 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 16.815 | ug/l | 27139.19 |
| Mo | 95 | 72 | 3 | He | 18.709 | ug/l | 8803.54 |
| Mo | 98 | 72 | 1 | NO GAS | 16.676 | ug/l | 46053.98 |
| Ag | 107 | 72 | 1 | NO GAS | -0.373 | ug/l | 119.31 |
| Ag | 109 | 72 | 1 | NO GAS | -0.358 | ug/l | 108.65 |
| Cd | 111 | 159 | 1 | NO GAS | 0.023 | ug/l | 41.19 |
| Cd | 111 | 159 | 3 | He | 0.010 | ug/l | 6.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.124 | ug/l | 135.25 |
| Cd | 114 | 159 | 3 | He | 0.063 | ug/l | 19.80 |
| Sn | 118 | 159 | 1 | NO GAS | -11.946 | ug/l | 3213.99 |
| Sn | 118 | 159 | 3 | He | -12.332 | ug/l | 525.57 |
| Sb | 121 | 159 | 1 | NO GAS | 0.043 | ug/l | 773.36 |
| Sb | 121 | 159 | 3 | He | 0.060 | ug/l | 111.11 |
| Sb | 123 | 159 | 1 | NO GAS | 0.044 | ug/l | 611.13 |
| Sb | 123 | 159 | 3 | He | 0.049 | ug/l | 73.33 |
| Ba | 135 | 159 | 1 | NO GAS | 2.498 | ug/l | 2704.90 |
| Ba | 137 | 159 | 1 | NO GAS | 2.530 | ug/l | 4754.66 |
| La | 139 | 175 | 1 | NO GAS | 0.008 | ug/l | 206.88 |
| La | 139 | 175 | 3 | He | 0.009 | ug/l | 43.38 |
| Ce | 140 | 175 | 1 | NO GAS | 0.007 | ug/l | 176.85 |
| Ce | 140 | 175 | 3 | He | 0.010 | ug/l | 60.06 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 27.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.036 | ug/l | 150.64 |
| Hg | 202 | 175 | 3 | He | 0.020 | ug/l | 59.66 |
| Tl | 203 | 175 | 3 | He | 0.309 | ug/l | 1179.15 |
| Tl | 205 | 175 | 1 | NO GAS | 0.228 | ug/l | 4808.58 |
| Tl | 205 | 175 | 3 | He | 0.303 | ug/l | 2885.71 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.041 | ug/l | 255.56 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.049 | ug/l | 252.23 |
| Pb | 208 | 175 | 1 | NO GAS | 0.049 | ug/l | 1133.44 |
| Th | 232 | 175 | 3 | He | 0.012 | ug/l | 1399.13 |
| U | 238 | 175 | 1 | NO GAS | 0.009 | ug/l | 371.27 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1836645.00 | 88.2 |
| Sc | 45 | 2 | H2 | 72967.74 | 80.4 |
| Sc | 45 | 3 | He | 46836.96 | 85.3 |
| Ge | 72 | 1 | NO GAS | 886771.66 | 99.0 |
| Ge | 72 | 2 | H2 | 117187.70 | 90.5 |
| Ge | 72 | 3 | He | 77613.61 | 92.1 |
| Tb | 159 | 1 | NO GAS | 19657616.09 | 97.7 |
| Tb | 159 | 3 | He | 6979374.86 | 95.0 |
| Ho | 165 | 1 | NO GAS | 18673644.86 | 99.5 |
| Ho | 165 | 3 | He | 6794317.05 | 93.8 |
| Lu | 175 | 1 | NO GAS | 20444453.94 | 102.1 |
| Lu | 175 | 3 | He | 4135640.91 | 93.8 |

ICPMS206-B Analytical Data

Sample Name B22010973-001AMS
File Name 132MS.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 07:34:19
Sample Type MS
Total Dilution 1.0300
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 1596.753 | ug/l | 1044536.69 |
| Be | 9 | 45 | 1 | NO GAS | 42.875 | ug/l | 11025.27 |
| B | 11 | 45 | 1 | NO GAS | 101.146 | ug/l | 19034.71 |
| Na | 23 | 45 | 3 | He | 92379.375 | ug/l | 7675989.40 |
| Mg | 24 | 45 | 3 | He | 61642.642 | ug/l | 2671102.55 |
| Al | 27 | 45 | 1 | NO GAS | 47.940 | ug/l | 132527.15 |
| Si | 28 | 45 | 2 | H2 | 10009.517 | ug/l | 131484.04 |
| K | 39 | 72 | 3 | He | 49342.280 | ug/l | 2116633.86 |
| Ca | 40 | 72 | 2 | H2 | 58716.791 | ug/l | 10836658.79 |
| Ti | 47 | 72 | 1 | NO GAS | 51.072 | ug/l | 42111.61 |
| V | 51 | 72 | 1 | NO GAS | 47.144 | ug/l | 599452.76 |
| V | 51 | 72 | 3 | He | 50.221 | ug/l | 62992.54 |
| Cr | 52 | 72 | 1 | NO GAS | 45.506 | ug/l | 552018.86 |
| Cr | 52 | 72 | 3 | He | 50.315 | ug/l | 83350.38 |
| Cr | 53 | 72 | 1 | NO GAS | 21.283 | ug/l | 141565.05 |
| Mn | 55 | 72 | 1 | NO GAS | 68.439 | ug/l | 1237630.16 |
| Mn | 55 | 72 | 3 | He | 75.191 | ug/l | 60725.89 |
| Fe | 56 | 72 | 2 | H2 | 4625.670 | ug/l | 4891424.48 |
| Fe | 56 | 72 | 3 | He | 5069.116 | ug/l | 7631981.38 |
| Co | 59 | 72 | 1 | NO GAS | 45.636 | ug/l | 714146.19 |
| Ni | 60 | 72 | 1 | NO GAS | 47.186 | ug/l | 160539.90 |
| Ni | 60 | 72 | 3 | He | 51.731 | ug/l | 52955.40 |
| Ni | 62 | 72 | 1 | NO GAS | 46.522 | ug/l | 24915.95 |
| Cu | 63 | 72 | 1 | NO GAS | 47.787 | ug/l | 413526.75 |
| Cu | 63 | 72 | 3 | He | 50.698 | ug/l | 155476.83 |
| Cu | 65 | 72 | 1 | NO GAS | 47.057 | ug/l | 202070.40 |
| Zn | 66 | 72 | 1 | NO GAS | 49.471 | ug/l | 141464.85 |
| Zn | 66 | 72 | 3 | He | 54.279 | ug/l | 24593.71 |
| As | 75 | 72 | 1 | NO GAS | 50.044 | ug/l | 158080.46 |
| As | 75 | 72 | 3 | He | 53.887 | ug/l | 15865.35 |
| Se | 78 | 72 | 2 | H2 | 55.749 | ug/l | 5406.47 |
| Br | 79 | 72 | 1 | NO GAS | 9.448 | ug/l | 126224.24 |
| Br | 79 | 72 | 2 | H2 | 10.567 | ug/l | 18633.75 |
| Se | 82 | 72 | 1 | NO GAS | 53.623 | ug/l | 14155.19 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 36608.16 |
| Sr | 88 | 72 | 1 | NO GAS | 134.819 | ug/l | 4768807.56 |
| Sr | 88 | 72 | 3 | He | 141.035 | ug/l | 204912.49 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 66.897 | ug/l | 507299.97 |
| Mo | 95 | 72 | 3 | He | 72.072 | ug/l | 172788.50 |
| Mo | 98 | 72 | 1 | NO GAS | 67.204 | ug/l | 871405.69 |
| Ag | 107 | 72 | 1 | NO GAS | 20.560 | ug/l | 443299.71 |
| Ag | 109 | 72 | 1 | NO GAS | 20.732 | ug/l | 439986.06 |
| Cd | 111 | 159 | 1 | NO GAS | 46.908 | ug/l | 256195.86 |
| Cd | 111 | 159 | 3 | He | 48.170 | ug/l | 63788.95 |
| Cd | 114 | 159 | 1 | NO GAS | 46.800 | ug/l | 592886.94 |
| Cd | 114 | 159 | 3 | He | 47.809 | ug/l | 164991.26 |
| Sn | 118 | 159 | 1 | NO GAS | 46.691 | ug/l | 785807.25 |
| Sn | 118 | 159 | 3 | He | 47.342 | ug/l | 121363.51 |
| Sb | 121 | 159 | 1 | NO GAS | 49.228 | ug/l | 1130611.92 |
| Sb | 121 | 159 | 3 | He | 48.777 | ug/l | 158738.06 |
| Sb | 123 | 159 | 1 | NO GAS | 48.760 | ug/l | 888903.93 |
| Sb | 123 | 159 | 3 | He | 49.965 | ug/l | 132698.38 |
| Ba | 135 | 159 | 1 | NO GAS | 50.329 | ug/l | 246285.49 |
| Ba | 137 | 159 | 1 | NO GAS | 51.033 | ug/l | 433193.44 |
| La | 139 | 175 | 1 | NO GAS | 0.006 | ug/l | 520.54 |
| La | 139 | 175 | 3 | He | 0.004 | ug/l | 80.08 |
| Ce | 140 | 175 | 1 | NO GAS | 46.994 | ug/l | 3724431.36 |
| Ce | 140 | 175 | 3 | He | 47.954 | ug/l | 1063016.35 |
| Hg | 201 | 175 | 1 | NO GAS | 0.957 | ug/l | 3806.72 |
| Hg | 202 | 175 | 1 | NO GAS | 0.990 | ug/l | 9083.91 |
| Hg | 202 | 175 | 3 | He | 1.032 | ug/l | 6345.06 |
| Tl | 203 | 175 | 3 | He | 48.179 | ug/l | 615489.15 |
| Tl | 205 | 175 | 1 | NO GAS | 45.790 | ug/l | 2875535.72 |
| Tl | 205 | 175 | 3 | He | 49.361 | ug/l | 1546158.91 |
| [Pb] | 206 | 175 | 1 | NO GAS | 47.223 | ug/l | 999230.70 |
| [Pb] | 207 | 175 | 1 | NO GAS | 46.762 | ug/l | 857930.27 |
| Pb | 208 | 175 | 1 | NO GAS | 47.597 | ug/l | 3996175.27 |
| Th | 232 | 175 | 3 | He | 53.030 | ug/l | 2423793.58 |
| U | 238 | 175 | 1 | NO GAS | 48.638 | ug/l | 4701073.75 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1899157.52 | 91.2 |
| Sc | 45 | 2 | H2 | 80078.54 | 88.2 |
| Sc | 45 | 3 | He | 51765.97 | 94.3 |
| Ge | 72 | 1 | NO GAS | 860389.42 | 96.0 |
| Ge | 72 | 2 | H2 | 119432.26 | 92.2 |
| Ge | 72 | 3 | He | 81767.05 | 97.0 |
| Tb | 159 | 1 | NO GAS | 18415696.92 | 91.5 |
| Tb | 159 | 3 | He | 6935993.30 | 94.4 |
| Ho | 165 | 1 | NO GAS | 17569489.08 | 93.6 |
| Ho | 165 | 3 | He | 6714220.13 | 92.7 |
| Lu | 175 | 1 | NO GAS | 19586361.09 | 97.9 |
| Lu | 175 | 3 | He | 4135483.46 | 93.7 |

ICPMS206-B Analytical Data

Sample Name B22010973-001AMSD
File Name 133MSD.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 07:39:58
Sample Type MSD
Total Dilution 1.0300
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 1968.250 | ug/l | 1278338.72 |
| Be | 9 | 45 | 1 | NO GAS | 44.813 | ug/l | 13407.12 |
| B | 11 | 45 | 1 | NO GAS | 103.276 | ug/l | 22630.26 |
| Na | 23 | 45 | 3 | He | 91451.543 | ug/l | 8639541.19 |
| Mg | 24 | 45 | 3 | He | 61855.765 | ug/l | 3049169.14 |
| Al | 27 | 45 | 1 | NO GAS | 48.512 | ug/l | 156139.38 |
| Si | 28 | 45 | 2 | H2 | 9917.396 | ug/l | 164396.60 |
| K | 39 | 72 | 3 | He | 51060.499 | ug/l | 2364167.55 |
| Ca | 40 | 72 | 2 | H2 | 64503.855 | ug/l | 13754164.25 |
| Ti | 47 | 72 | 1 | NO GAS | 52.019 | ug/l | 46595.80 |
| V | 51 | 72 | 1 | NO GAS | 47.619 | ug/l | 658078.56 |
| V | 51 | 72 | 3 | He | 49.166 | ug/l | 66573.67 |
| Cr | 52 | 72 | 1 | NO GAS | 46.283 | ug/l | 609621.16 |
| Cr | 52 | 72 | 3 | He | 48.938 | ug/l | 87498.65 |
| Cr | 53 | 72 | 1 | NO GAS | 14.183 | ug/l | 146441.67 |
| Mn | 55 | 72 | 1 | NO GAS | 71.251 | ug/l | 1399750.25 |
| Mn | 55 | 72 | 3 | He | 76.047 | ug/l | 66281.11 |
| Fe | 56 | 72 | 2 | H2 | 4838.177 | ug/l | 5913049.19 |
| Fe | 56 | 72 | 3 | He | 5175.376 | ug/l | 8411248.14 |
| Co | 59 | 72 | 1 | NO GAS | 46.002 | ug/l | 782131.66 |
| Ni | 60 | 72 | 1 | NO GAS | 46.103 | ug/l | 170449.63 |
| Ni | 60 | 72 | 3 | He | 50.705 | ug/l | 56014.25 |
| Ni | 62 | 72 | 1 | NO GAS | 46.732 | ug/l | 27201.77 |
| Cu | 63 | 72 | 1 | NO GAS | 47.420 | ug/l | 445845.04 |
| Cu | 63 | 72 | 3 | He | 49.894 | ug/l | 165132.60 |
| Cu | 65 | 72 | 1 | NO GAS | 46.620 | ug/l | 217508.84 |
| Zn | 66 | 72 | 1 | NO GAS | 47.872 | ug/l | 148768.42 |
| Zn | 66 | 72 | 3 | He | 50.710 | ug/l | 24805.07 |
| As | 75 | 72 | 1 | NO GAS | 48.967 | ug/l | 168065.05 |
| As | 75 | 72 | 3 | He | 52.155 | ug/l | 16570.22 |
| Se | 78 | 72 | 2 | H2 | 53.689 | ug/l | 6019.56 |
| Br | 79 | 72 | 1 | NO GAS | 9.583 | ug/l | 138019.28 |
| Br | 79 | 72 | 2 | H2 | 10.829 | ug/l | 21791.41 |
| Se | 82 | 72 | 1 | NO GAS | 50.011 | ug/l | 14356.44 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 38161.79 |
| Sr | 88 | 72 | 1 | NO GAS | 135.534 | ug/l | 5208696.28 |
| Sr | 88 | 72 | 3 | He | 140.586 | ug/l | 220471.29 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 64.980 | ug/l | 535208.45 |
| Mo | 95 | 72 | 3 | He | 69.329 | ug/l | 179386.46 |
| Mo | 98 | 72 | 1 | NO GAS | 63.210 | ug/l | 890314.38 |
| Ag | 107 | 72 | 1 | NO GAS | 19.740 | ug/l | 462409.74 |
| Ag | 109 | 72 | 1 | NO GAS | 19.015 | ug/l | 438557.22 |
| Cd | 111 | 159 | 1 | NO GAS | 46.686 | ug/l | 264514.27 |
| Cd | 111 | 159 | 3 | He | 48.149 | ug/l | 65283.73 |
| Cd | 114 | 159 | 1 | NO GAS | 46.776 | ug/l | 614906.55 |
| Cd | 114 | 159 | 3 | He | 48.023 | ug/l | 169734.11 |
| Sn | 118 | 159 | 1 | NO GAS | 46.065 | ug/l | 805079.86 |
| Sn | 118 | 159 | 3 | He | 46.927 | ug/l | 123226.30 |
| Sb | 121 | 159 | 1 | NO GAS | 47.228 | ug/l | 1125469.03 |
| Sb | 121 | 159 | 3 | He | 49.520 | ug/l | 165002.12 |
| Sb | 123 | 159 | 1 | NO GAS | 46.599 | ug/l | 881555.40 |
| Sb | 123 | 159 | 3 | He | 49.901 | ug/l | 135681.91 |
| Ba | 135 | 159 | 1 | NO GAS | 49.209 | ug/l | 249857.95 |
| Ba | 137 | 159 | 1 | NO GAS | 48.862 | ug/l | 430369.13 |
| La | 139 | 175 | 1 | NO GAS | 0.007 | ug/l | 603.97 |
| La | 139 | 175 | 3 | He | 0.003 | ug/l | 60.06 |
| Ce | 140 | 175 | 1 | NO GAS | 48.047 | ug/l | 3781561.22 |
| Ce | 140 | 175 | 3 | He | 47.848 | ug/l | 1082496.59 |
| Hg | 201 | 175 | 1 | NO GAS | 0.960 | ug/l | 3790.72 |
| Hg | 202 | 175 | 1 | NO GAS | 0.970 | ug/l | 8837.81 |
| Hg | 202 | 175 | 3 | He | 1.001 | ug/l | 6282.38 |
| Tl | 203 | 175 | 3 | He | 46.842 | ug/l | 610623.72 |
| Tl | 205 | 175 | 1 | NO GAS | 46.799 | ug/l | 2917397.08 |
| Tl | 205 | 175 | 3 | He | 48.094 | ug/l | 1536691.26 |
| [Pb] | 206 | 175 | 1 | NO GAS | 45.536 | ug/l | 956551.83 |
| [Pb] | 207 | 175 | 1 | NO GAS | 44.901 | ug/l | 818123.90 |
| Pb | 208 | 175 | 1 | NO GAS | 46.064 | ug/l | 3841586.51 |
| Th | 232 | 175 | 3 | He | 51.354 | ug/l | 2396433.40 |
| U | 238 | 175 | 1 | NO GAS | 46.974 | ug/l | 4509958.19 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2214738.44 | 106.4 |
| Sc | 45 | 2 | H2 | 101072.66 | 111.3 |
| Sc | 45 | 3 | He | 58882.96 | 107.2 |
| Ge | 72 | 1 | NO GAS | 934803.70 | 104.4 |
| Ge | 72 | 2 | H2 | 138023.97 | 106.6 |
| Ge | 72 | 3 | He | 88256.69 | 104.7 |
| Tb | 159 | 1 | NO GAS | 19108969.34 | 95.0 |
| Tb | 159 | 3 | He | 7107750.21 | 96.7 |
| Ho | 165 | 1 | NO GAS | 17454031.54 | 93.0 |
| Ho | 165 | 3 | He | 6809421.89 | 94.0 |
| Lu | 175 | 1 | NO GAS | 19452177.95 | 97.2 |
| Lu | 175 | 3 | He | 4222291.99 | 95.7 |

ICPMS206-B Analytical Data

Sample Name Rinse
File Name 134BLKV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 07:45:36
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | 1.605 | ug/l | 3532.33 |
| Be | 9 | 45 | 1 | NO GAS | 0.023 | ug/l | 9.67 |
| B | 11 | 45 | 1 | NO GAS | 0.389 | ug/l | 413.93 |
| Na | 23 | 45 | 3 | He | 187.664 | ug/l | 27813.52 |
| Mg | 24 | 45 | 3 | He | 2.508 | ug/l | 202.93 |
| Al | 27 | 45 | 1 | NO GAS | 0.548 | ug/l | 2397.97 |
| Si | 28 | 45 | 2 | H2 | -68.824 | ug/l | 75.32 |
| K | 39 | 72 | 3 | He | 11.311 | ug/l | 3467.04 |
| Ca | 40 | 72 | 2 | H2 | 3.515 | ug/l | 1341.07 |
| Ti | 47 | 72 | 1 | NO GAS | 0.085 | ug/l | 116.61 |
| V | 51 | 72 | 1 | NO GAS | 0.762 | ug/l | -14165.05 |
| V | 51 | 72 | 3 | He | -0.039 | ug/l | 275.56 |
| Cr | 52 | 72 | 1 | NO GAS | -0.038 | ug/l | 15306.69 |
| Cr | 52 | 72 | 3 | He | -0.003 | ug/l | 133.07 |
| Cr | 53 | 72 | 1 | NO GAS | -28.679 | ug/l | 101766.15 |
| Mn | 55 | 72 | 1 | NO GAS | 0.023 | ug/l | 1573.63 |
| Mn | 55 | 72 | 3 | He | 0.020 | ug/l | 27.33 |
| Fe | 56 | 72 | 2 | H2 | 0.678 | ug/l | 1151.15 |
| Fe | 56 | 72 | 3 | He | 0.670 | ug/l | 1680.93 |
| Co | 59 | 72 | 1 | NO GAS | 0.012 | ug/l | 272.80 |
| Ni | 60 | 72 | 1 | NO GAS | 0.027 | ug/l | 123.09 |
| Ni | 60 | 72 | 3 | He | 0.011 | ug/l | 45.56 |
| Ni | 62 | 72 | 1 | NO GAS | -0.126 | ug/l | 349.31 |
| Cu | 63 | 72 | 1 | NO GAS | 0.015 | ug/l | 641.89 |
| Cu | 63 | 72 | 3 | He | 0.015 | ug/l | 241.62 |
| Cu | 65 | 72 | 1 | NO GAS | 0.013 | ug/l | 311.94 |
| Zn | 66 | 72 | 1 | NO GAS | 0.004 | ug/l | 359.16 |
| Zn | 66 | 72 | 3 | He | 0.044 | ug/l | 82.22 |
| As | 75 | 72 | 1 | NO GAS | 0.011 | ug/l | 3706.04 |
| As | 75 | 72 | 3 | He | 0.013 | ug/l | 11.00 |
| Se | 78 | 72 | 2 | H2 | 0.011 | ug/l | 4.67 |
| Br | 79 | 72 | 1 | NO GAS | -2.359 | ug/l | 58276.63 |
| Br | 79 | 72 | 2 | H2 | -1.585 | ug/l | 9181.11 |
| Se | 82 | 72 | 1 | NO GAS | 0.534 | ug/l | 338.68 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8658.52 |
| Sr | 88 | 72 | 1 | NO GAS | 0.019 | ug/l | 1161.09 |
| Sr | 88 | 72 | 3 | He | 0.020 | ug/l | 264.45 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.039 | ug/l | 432.23 |
| Mo | 95 | 72 | 3 | He | 0.048 | ug/l | 166.67 |
| Mo | 98 | 72 | 1 | NO GAS | 0.040 | ug/l | 742.12 |
| Ag | 107 | 72 | 1 | NO GAS | 0.005 | ug/l | 2045.73 |
| Ag | 109 | 72 | 1 | NO GAS | 0.004 | ug/l | 1906.41 |
| Cd | 111 | 159 | 1 | NO GAS | -0.004 | ug/l | -9.63 |
| Cd | 111 | 159 | 3 | He | 0.009 | ug/l | 16.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.010 | ug/l | -68.10 |
| Cd | 114 | 159 | 3 | He | 0.019 | ug/l | 44.03 |
| Sn | 118 | 159 | 1 | NO GAS | -2.321 | ug/l | 4208.92 |
| Sn | 118 | 159 | 3 | He | -2.409 | ug/l | 714.46 |
| Sb | 121 | 159 | 1 | NO GAS | 0.003 | ug/l | 612.24 |
| Sb | 121 | 159 | 3 | He | 0.010 | ug/l | 111.11 |
| Sb | 123 | 159 | 1 | NO GAS | 0.008 | ug/l | 566.68 |
| Sb | 123 | 159 | 3 | He | 0.016 | ug/l | 96.67 |
| Ba | 135 | 159 | 1 | NO GAS | 0.038 | ug/l | 222.89 |
| Ba | 137 | 159 | 1 | NO GAS | 0.046 | ug/l | 452.45 |
| La | 139 | 175 | 1 | NO GAS | 0.002 | ug/l | 260.27 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 53.39 |
| Ce | 140 | 175 | 1 | NO GAS | 0.003 | ug/l | 320.33 |
| Ce | 140 | 175 | 3 | He | 0.003 | ug/l | 83.42 |
| Hg | 201 | 175 | 1 | NO GAS | 0.005 | ug/l | 42.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.005 | ug/l | 126.64 |
| Hg | 202 | 175 | 3 | He | 0.005 | ug/l | 66.99 |
| Tl | 203 | 175 | 3 | He | 0.258 | ug/l | 4014.42 |
| Tl | 205 | 175 | 1 | NO GAS | 0.220 | ug/l | 16409.36 |
| Tl | 205 | 175 | 3 | He | 0.263 | ug/l | 10056.70 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.015 | ug/l | 382.23 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.015 | ug/l | 341.12 |
| Pb | 208 | 175 | 1 | NO GAS | 0.014 | ug/l | 1428.93 |
| Th | 232 | 175 | 3 | He | 0.047 | ug/l | 3721.07 |
| U | 238 | 175 | 1 | NO GAS | 0.010 | ug/l | 1194.82 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2284109.59 | 109.7 |
| Sc | 45 | 2 | H2 | 94967.64 | 104.6 |
| Sc | 45 | 3 | He | 58074.82 | 105.7 |
| Ge | 72 | 1 | NO GAS | 956637.85 | 106.8 |
| Ge | 72 | 2 | H2 | 136024.16 | 105.1 |
| Ge | 72 | 3 | He | 87621.34 | 103.9 |
| Tb | 159 | 1 | NO GAS | 19075420.27 | 94.8 |
| Tb | 159 | 3 | He | 7435003.65 | 101.2 |
| Ho | 165 | 1 | NO GAS | 18380819.45 | 97.9 |
| Ho | 165 | 3 | He | 7144288.57 | 98.7 |
| Lu | 175 | 1 | NO GAS | 20178762.22 | 100.8 |
| Lu | 175 | 3 | He | 4420310.16 | 100.2 |

ICPMS206-B Analytical Data

Sample Name B22010973-001B
File Name 135SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 07:51:23
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 0.828 | ug/l | 3109.66 |
| Be | 9 | 45 | 1 | NO GAS | 0.013 | ug/l | 6.00 |
| B | 11 | 45 | 1 | NO GAS | 66.761 | ug/l | 14375.76 |
| Na | 23 | 45 | 3 | He | 44160.144 | ug/l | 4056586.92 |
| Mg | 24 | 45 | 3 | He | 13204.562 | ug/l | 631711.28 |
| Al | 27 | 45 | 1 | NO GAS | 7.839 | ug/l | 25107.43 |
| Si | 28 | 45 | 2 | H2 | 10158.958 | ug/l | 150949.20 |
| K | 39 | 72 | 3 | He | 3665.394 | ug/l | 170050.01 |
| Ca | 40 | 72 | 2 | H2 | 13292.196 | ug/l | 2822481.59 |
| Ti | 47 | 72 | 1 | NO GAS | 1.493 | ug/l | 1379.39 |
| V | 51 | 72 | 1 | NO GAS | 0.564 | ug/l | -15788.88 |
| V | 51 | 72 | 3 | He | 0.094 | ug/l | 443.35 |
| Cr | 52 | 72 | 1 | NO GAS | 0.577 | ug/l | 22760.31 |
| Cr | 52 | 72 | 3 | He | 0.321 | ug/l | 698.64 |
| Cr | 53 | 72 | 1 | NO GAS | 18.614 | ug/l | 147671.77 |
| Mn | 55 | 72 | 1 | NO GAS | 33.476 | ug/l | 660385.64 |
| Mn | 55 | 72 | 3 | He | 36.335 | ug/l | 31245.45 |
| Fe | 56 | 72 | 2 | H2 | 107.560 | ug/l | 131267.29 |
| Fe | 56 | 72 | 3 | He | 119.420 | ug/l | 191980.41 |
| Co | 59 | 72 | 1 | NO GAS | 0.077 | ug/l | 1380.67 |
| Ni | 60 | 72 | 1 | NO GAS | 0.499 | ug/l | 1866.42 |
| Ni | 60 | 72 | 3 | He | 0.355 | ug/l | 418.90 |
| Ni | 62 | 72 | 1 | NO GAS | 0.445 | ug/l | 655.39 |
| Cu | 63 | 72 | 1 | NO GAS | 0.765 | ug/l | 7683.58 |
| Cu | 63 | 72 | 3 | He | 0.245 | ug/l | 983.50 |
| Cu | 65 | 72 | 1 | NO GAS | 0.302 | ug/l | 1651.76 |
| Zn | 66 | 72 | 1 | NO GAS | 2.917 | ug/l | 9402.49 |
| Zn | 66 | 72 | 3 | He | 3.093 | ug/l | 1546.75 |
| As | 75 | 72 | 1 | NO GAS | 0.579 | ug/l | 5632.24 |
| As | 75 | 72 | 3 | He | 0.181 | ug/l | 62.99 |
| Se | 78 | 72 | 2 | H2 | 0.105 | ug/l | 15.00 |
| Br | 79 | 72 | 1 | NO GAS | 0.041 | ug/l | 72695.10 |
| Br | 79 | 72 | 2 | H2 | 1.844 | ug/l | 12436.78 |
| Se | 82 | 72 | 1 | NO GAS | 0.960 | ug/l | 455.13 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 27598.33 |
| Sr | 88 | 72 | 1 | NO GAS | 89.264 | ug/l | 3441416.01 |
| Sr | 88 | 72 | 3 | He | 93.363 | ug/l | 144488.81 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 16.966 | ug/l | 140290.36 |
| Mo | 95 | 72 | 3 | He | 18.199 | ug/l | 46479.16 |
| Mo | 98 | 72 | 1 | NO GAS | 16.644 | ug/l | 235346.25 |
| Ag | 107 | 72 | 1 | NO GAS | -0.064 | ug/l | 378.60 |
| Ag | 109 | 72 | 1 | NO GAS | -0.061 | ug/l | 351.27 |
| Cd | 111 | 159 | 1 | NO GAS | -0.006 | ug/l | -20.95 |
| Cd | 111 | 159 | 3 | He | 0.007 | ug/l | 13.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.016 | ug/l | 14.77 |
| Cd | 114 | 159 | 3 | He | 0.012 | ug/l | 19.34 |
| Sn | 118 | 159 | 1 | NO GAS | -1.950 | ug/l | 10878.85 |
| Sn | 118 | 159 | 3 | He | -1.999 | ug/l | 1727.89 |
| Sb | 121 | 159 | 1 | NO GAS | 0.053 | ug/l | 1882.35 |
| Sb | 121 | 159 | 3 | He | 0.065 | ug/l | 293.34 |
| Sb | 123 | 159 | 1 | NO GAS | 0.047 | ug/l | 1372.29 |
| Sb | 123 | 159 | 3 | He | 0.058 | ug/l | 211.11 |
| Ba | 135 | 159 | 1 | NO GAS | 2.229 | ug/l | 11984.16 |
| Ba | 137 | 159 | 1 | NO GAS | 2.224 | ug/l | 20752.50 |
| La | 139 | 175 | 1 | NO GAS | 0.002 | ug/l | 283.63 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 53.39 |
| Ce | 140 | 175 | 1 | NO GAS | 0.012 | ug/l | 1117.86 |
| Ce | 140 | 175 | 3 | He | 0.012 | ug/l | 300.31 |
| Hg | 201 | 175 | 1 | NO GAS | 0.010 | ug/l | 65.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.040 | ug/l | 474.91 |
| Hg | 202 | 175 | 3 | He | 0.030 | ug/l | 230.96 |
| Tl | 203 | 175 | 3 | He | 0.120 | ug/l | 2014.41 |
| Tl | 205 | 175 | 1 | NO GAS | 0.076 | ug/l | 6881.65 |
| Tl | 205 | 175 | 3 | He | 0.121 | ug/l | 4995.85 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.554 | ug/l | 12653.17 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.540 | ug/l | 10699.45 |
| Pb | 208 | 175 | 1 | NO GAS | 0.546 | ug/l | 49505.30 |
| Th | 232 | 175 | 3 | He | 0.126 | ug/l | 7457.74 |
| U | 238 | 175 | 1 | NO GAS | 0.008 | ug/l | 1044.83 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2097292.14 | 100.7 |
| Sc | 45 | 2 | H2 | 88037.34 | 96.9 |
| Sc | 45 | 3 | He | 55482.14 | 101.0 |
| Ge | 72 | 1 | NO GAS | 910412.99 | 101.6 |
| Ge | 72 | 2 | H2 | 133621.16 | 103.2 |
| Ge | 72 | 3 | He | 84517.05 | 100.3 |
| Tb | 159 | 1 | NO GAS | 19625241.01 | 97.5 |
| Tb | 159 | 3 | He | 7103834.58 | 96.7 |
| Ho | 165 | 1 | NO GAS | 18672184.65 | 99.5 |
| Ho | 165 | 3 | He | 7062396.99 | 97.5 |
| Lu | 175 | 1 | NO GAS | 20403645.64 | 101.9 |
| Lu | 175 | 3 | He | 4287941.23 | 97.2 |

ICPMS206-B Analytical Data

Sample Name B22010974-001A
File Name 136SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 07:57:08
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 1.536 | ug/l | 3536.33 |
| Be | 9 | 45 | 1 | NO GAS | 0.001 | ug/l | 2.67 |
| B | 11 | 45 | 1 | NO GAS | 40.112 | ug/l | 9986.91 |
| Na | 23 | 45 | 3 | He | 33067.595 | ug/l | 3486207.73 |
| Mg | 24 | 45 | 3 | He | 9155.148 | ug/l | 502265.54 |
| Al | 27 | 45 | 1 | NO GAS | 5.574 | ug/l | 20556.82 |
| Si | 28 | 45 | 2 | H2 | 28856.464 | ug/l | 548313.42 |
| K | 39 | 72 | 3 | He | 3895.737 | ug/l | 202766.18 |
| Ca | 40 | 72 | 2 | H2 | 10871.227 | ug/l | 2744582.30 |
| Ti | 47 | 72 | 1 | NO GAS | 1.691 | ug/l | 1735.91 |
| V | 51 | 72 | 1 | NO GAS | 16.819 | ug/l | 243722.18 |
| V | 51 | 72 | 3 | He | 16.381 | ug/l | 24817.17 |
| Cr | 52 | 72 | 1 | NO GAS | 1.634 | ug/l | 40485.27 |
| Cr | 52 | 72 | 3 | He | 2.346 | ug/l | 4794.58 |
| Cr | 53 | 72 | 1 | NO GAS | -97.885 | ug/l | 29900.22 |
| Mn | 55 | 72 | 1 | NO GAS | 0.053 | ug/l | 2362.18 |
| Mn | 55 | 72 | 3 | He | 0.099 | ug/l | 106.34 |
| Fe | 56 | 72 | 2 | H2 | 1.306 | ug/l | 2254.06 |
| Fe | 56 | 72 | 3 | He | 1.219 | ug/l | 2810.54 |
| Co | 59 | 72 | 1 | NO GAS | 0.024 | ug/l | 535.62 |
| Ni | 60 | 72 | 1 | NO GAS | 0.536 | ug/l | 2235.74 |
| Ni | 60 | 72 | 3 | He | 0.457 | ug/l | 595.57 |
| Ni | 62 | 72 | 1 | NO GAS | 0.413 | ug/l | 715.27 |
| Cu | 63 | 72 | 1 | NO GAS | 1.264 | ug/l | 13851.66 |
| Cu | 63 | 72 | 3 | He | 0.927 | ug/l | 3604.67 |
| Cu | 65 | 72 | 1 | NO GAS | 0.909 | ug/l | 5009.10 |
| Zn | 66 | 72 | 1 | NO GAS | 8.810 | ug/l | 31024.91 |
| Zn | 66 | 72 | 3 | He | 10.095 | ug/l | 5519.84 |
| As | 75 | 72 | 1 | NO GAS | 0.357 | ug/l | 5457.85 |
| As | 75 | 72 | 3 | He | 0.184 | ug/l | 71.65 |
| Se | 78 | 72 | 2 | H2 | 0.179 | ug/l | 27.66 |
| Br | 79 | 72 | 1 | NO GAS | 4.604 | ug/l | 115256.83 |
| Br | 79 | 72 | 2 | H2 | 5.217 | ug/l | 18786.97 |
| Se | 82 | 72 | 1 | NO GAS | 1.337 | ug/l | 619.50 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 24996.08 |
| Sr | 88 | 72 | 1 | NO GAS | 68.148 | ug/l | 2932713.24 |
| Sr | 88 | 72 | 3 | He | 71.905 | ug/l | 125058.22 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.157 | ug/l | 1543.42 |
| Mo | 95 | 72 | 3 | He | 0.168 | ug/l | 524.46 |
| Mo | 98 | 72 | 1 | NO GAS | 0.150 | ug/l | 2530.22 |
| Ag | 107 | 72 | 1 | NO GAS | -0.076 | ug/l | 113.98 |
| Ag | 109 | 72 | 1 | NO GAS | -0.072 | ug/l | 108.65 |
| Cd | 111 | 159 | 1 | NO GAS | -0.003 | ug/l | -9.44 |
| Cd | 111 | 159 | 3 | He | 0.000 | ug/l | 4.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.021 | ug/l | 77.31 |
| Cd | 114 | 159 | 3 | He | 0.005 | ug/l | -9.85 |
| Sn | 118 | 159 | 1 | NO GAS | -1.846 | ug/l | 12643.32 |
| Sn | 118 | 159 | 3 | He | -1.828 | ug/l | 2265.73 |
| Sb | 121 | 159 | 1 | NO GAS | 0.264 | ug/l | 7166.10 |
| Sb | 121 | 159 | 3 | He | 0.301 | ug/l | 1153.38 |
| Sb | 123 | 159 | 1 | NO GAS | 0.271 | ug/l | 5854.43 |
| Sb | 123 | 159 | 3 | He | 0.290 | ug/l | 900.03 |
| Ba | 135 | 159 | 1 | NO GAS | 4.467 | ug/l | 23964.06 |
| Ba | 137 | 159 | 1 | NO GAS | 4.237 | ug/l | 39587.62 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 123.46 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 43.38 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 220.23 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 40.04 |
| Hg | 201 | 175 | 1 | NO GAS | 0.003 | ug/l | 33.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.007 | ug/l | 143.30 |
| Hg | 202 | 175 | 3 | He | 0.008 | ug/l | 91.65 |
| Tl | 203 | 175 | 3 | He | 0.163 | ug/l | 2721.05 |
| Tl | 205 | 175 | 1 | NO GAS | 0.125 | ug/l | 9934.47 |
| Tl | 205 | 175 | 3 | He | 0.157 | ug/l | 6526.79 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.012 | ug/l | 343.34 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.012 | ug/l | 295.56 |
| Pb | 208 | 175 | 1 | NO GAS | 0.013 | ug/l | 1405.59 |
| Th | 232 | 175 | 3 | He | -0.015 | ug/l | 642.56 |
| U | 238 | 175 | 1 | NO GAS | 0.021 | ug/l | 2321.39 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2460335.72 | 118.2 |
| Sc | 45 | 2 | H2 | 113049.58 | 124.5 |
| Sc | 45 | 3 | He | 63633.76 | 115.9 |
| Ge | 72 | 1 | NO GAS | 1030757.91 | 115.1 |
| Ge | 72 | 2 | H2 | 158520.46 | 122.4 |
| Ge | 72 | 3 | He | 94964.37 | 112.7 |
| Tb | 159 | 1 | NO GAS | 19958929.27 | 99.2 |
| Tb | 159 | 3 | He | 7436711.24 | 101.2 |
| Ho | 165 | 1 | NO GAS | 18604661.72 | 99.1 |
| Ho | 165 | 3 | He | 7165670.52 | 99.0 |
| Lu | 175 | 1 | NO GAS | 20567407.73 | 102.8 |
| Lu | 175 | 3 | He | 4494150.81 | 101.9 |

ICPMS206-B Analytical Data

Sample Name B22010974-001B
File Name 137SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 08:02:52
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 2.000 | ug/l | 4087.68 |
| Be | 9 | 45 | 1 | NO GAS | 0.002 | ug/l | 2.33 |
| B | 11 | 45 | 1 | NO GAS | 40.115 | ug/l | 8357.70 |
| Na | 23 | 45 | 3 | He | 36302.966 | ug/l | 2995109.29 |
| Mg | 24 | 45 | 3 | He | 9708.108 | ug/l | 417049.71 |
| Al | 27 | 45 | 1 | NO GAS | 26.100 | ug/l | 78335.56 |
| Si | 28 | 45 | 2 | H2 | 28390.470 | ug/l | 372706.78 |
| K | 39 | 72 | 3 | He | 4068.477 | ug/l | 177127.40 |
| Ca | 40 | 72 | 2 | H2 | 9744.534 | ug/l | 1851826.84 |
| Ti | 47 | 72 | 1 | NO GAS | 3.605 | ug/l | 3232.20 |
| V | 51 | 72 | 1 | NO GAS | 15.334 | ug/l | 193179.99 |
| V | 51 | 72 | 3 | He | 16.336 | ug/l | 20703.90 |
| Cr | 52 | 72 | 1 | NO GAS | 2.647 | ug/l | 48730.34 |
| Cr | 52 | 72 | 3 | He | 2.658 | ug/l | 4531.66 |
| Cr | 53 | 72 | 1 | NO GAS | 34.040 | ug/l | 161326.87 |
| Mn | 55 | 72 | 1 | NO GAS | 0.622 | ug/l | 13145.83 |
| Mn | 55 | 72 | 3 | He | 0.550 | ug/l | 453.38 |
| Fe | 56 | 72 | 2 | H2 | 28.529 | ug/l | 31357.43 |
| Fe | 56 | 72 | 3 | He | 31.550 | ug/l | 48076.46 |
| Co | 59 | 72 | 1 | NO GAS | 0.067 | ug/l | 1181.05 |
| Ni | 60 | 72 | 1 | NO GAS | 0.651 | ug/l | 2402.11 |
| Ni | 60 | 72 | 3 | He | 0.542 | ug/l | 584.46 |
| Ni | 62 | 72 | 1 | NO GAS | 0.548 | ug/l | 705.29 |
| Cu | 63 | 72 | 1 | NO GAS | 1.560 | ug/l | 14948.38 |
| Cu | 63 | 72 | 3 | He | 1.114 | ug/l | 3589.67 |
| Cu | 65 | 72 | 1 | NO GAS | 1.126 | ug/l | 5424.48 |
| Zn | 66 | 72 | 1 | NO GAS | 28.831 | ug/l | 88745.10 |
| Zn | 66 | 72 | 3 | He | 30.961 | ug/l | 14065.98 |
| As | 75 | 72 | 1 | NO GAS | 0.249 | ug/l | 4457.52 |
| As | 75 | 72 | 3 | He | 0.238 | ug/l | 75.99 |
| Se | 78 | 72 | 2 | H2 | 0.210 | ug/l | 24.00 |
| Br | 79 | 72 | 1 | NO GAS | 0.041 | ug/l | 71646.05 |
| Br | 79 | 72 | 2 | H2 | 0.495 | ug/l | 9933.40 |
| Se | 82 | 72 | 1 | NO GAS | 1.470 | ug/l | 586.23 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 24103.15 |
| Sr | 88 | 72 | 1 | NO GAS | 74.342 | ug/l | 2824330.58 |
| Sr | 88 | 72 | 3 | He | 79.103 | ug/l | 115114.71 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.221 | ug/l | 1886.79 |
| Mo | 95 | 72 | 3 | He | 0.209 | ug/l | 537.79 |
| Mo | 98 | 72 | 1 | NO GAS | 0.230 | ug/l | 3355.32 |
| Ag | 107 | 72 | 1 | NO GAS | -0.060 | ug/l | 468.58 |
| Ag | 109 | 72 | 1 | NO GAS | -0.058 | ug/l | 427.26 |
| Cd | 111 | 159 | 1 | NO GAS | 0.000 | ug/l | 13.00 |
| Cd | 111 | 159 | 3 | He | 0.002 | ug/l | 6.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.017 | ug/l | 19.53 |
| Cd | 114 | 159 | 3 | He | 0.004 | ug/l | -11.17 |
| Sn | 118 | 159 | 1 | NO GAS | -0.905 | ug/l | 30171.87 |
| Sn | 118 | 159 | 3 | He | -0.924 | ug/l | 4635.18 |
| Sb | 121 | 159 | 1 | NO GAS | 0.319 | ug/l | 8878.07 |
| Sb | 121 | 159 | 3 | He | 0.334 | ug/l | 1260.06 |
| Sb | 123 | 159 | 1 | NO GAS | 0.322 | ug/l | 7110.51 |
| Sb | 123 | 159 | 3 | He | 0.332 | ug/l | 1012.26 |
| Ba | 135 | 159 | 1 | NO GAS | 5.224 | ug/l | 29052.49 |
| Ba | 137 | 159 | 1 | NO GAS | 5.203 | ug/l | 50189.73 |
| La | 139 | 175 | 1 | NO GAS | 0.009 | ug/l | 887.60 |
| La | 139 | 175 | 3 | He | 0.011 | ug/l | 223.57 |
| Ce | 140 | 175 | 1 | NO GAS | 0.018 | ug/l | 1658.46 |
| Ce | 140 | 175 | 3 | He | 0.022 | ug/l | 540.56 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 52.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.017 | ug/l | 257.95 |
| Hg | 202 | 175 | 3 | He | 0.011 | ug/l | 111.65 |
| Tl | 203 | 175 | 3 | He | 0.043 | ug/l | 972.51 |
| Tl | 205 | 175 | 1 | NO GAS | 0.029 | ug/l | 3811.63 |
| Tl | 205 | 175 | 3 | He | 0.044 | ug/l | 2461.06 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.045 | ug/l | 1120.05 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.044 | ug/l | 963.37 |
| Pb | 208 | 175 | 1 | NO GAS | 0.045 | ug/l | 4455.86 |
| Th | 232 | 175 | 3 | He | 0.055 | ug/l | 4094.43 |
| U | 238 | 175 | 1 | NO GAS | 0.023 | ug/l | 2647.05 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1998354.36 | 96.0 |
| Sc | 45 | 2 | H2 | 78029.31 | 85.9 |
| Sc | 45 | 3 | He | 49812.13 | 90.7 |
| Ge | 72 | 1 | NO GAS | 897711.16 | 100.2 |
| Ge | 72 | 2 | H2 | 119558.56 | 92.3 |
| Ge | 72 | 3 | He | 79484.09 | 94.3 |
| Tb | 159 | 1 | NO GAS | 20301565.43 | 100.9 |
| Tb | 159 | 3 | He | 7353855.83 | 100.1 |
| Ho | 165 | 1 | NO GAS | 19347270.55 | 103.1 |
| Ho | 165 | 3 | He | 6895195.48 | 95.2 |
| Lu | 175 | 1 | NO GAS | 21071619.42 | 105.3 |
| Lu | 175 | 3 | He | 4342125.88 | 98.4 |

ICPMS206-B Analytical Data

Sample Name B22010975-001A
File Name 138SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 08:08:35
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -1.513 | ug/l | 1548.43 |
| Be | 9 | 45 | 1 | NO GAS | -0.004 | ug/l | 1.00 |
| B | 11 | 45 | 1 | NO GAS | 53.446 | ug/l | 13679.35 |
| Na | 23 | 45 | 3 | He | 37118.100 | ug/l | 3848936.05 |
| Mg | 24 | 45 | 3 | He | 11145.397 | ug/l | 601948.73 |
| Al | 27 | 45 | 1 | NO GAS | 3.359 | ug/l | 13097.29 |
| Si | 28 | 45 | 2 | H2 | 28759.346 | ug/l | 529285.45 |
| K | 39 | 72 | 3 | He | 2081.284 | ug/l | 112223.56 |
| Ca | 40 | 72 | 2 | H2 | 11354.053 | ug/l | 2827744.84 |
| Ti | 47 | 72 | 1 | NO GAS | 1.892 | ug/l | 1972.49 |
| V | 51 | 72 | 1 | NO GAS | 17.108 | ug/l | 252234.77 |
| V | 51 | 72 | 3 | He | 16.165 | ug/l | 25029.63 |
| Cr | 52 | 72 | 1 | NO GAS | 1.549 | ug/l | 40054.72 |
| Cr | 52 | 72 | 3 | He | 2.314 | ug/l | 4831.16 |
| Cr | 53 | 72 | 1 | NO GAS | -99.232 | ug/l | 28830.49 |
| Mn | 55 | 72 | 1 | NO GAS | 0.239 | ug/l | 6564.96 |
| Mn | 55 | 72 | 3 | He | 0.282 | ug/l | 288.70 |
| Fe | 56 | 72 | 2 | H2 | 3.786 | ug/l | 5766.56 |
| Fe | 56 | 72 | 3 | He | 3.965 | ug/l | 7924.76 |
| Co | 59 | 72 | 1 | NO GAS | 0.028 | ug/l | 608.81 |
| Ni | 60 | 72 | 1 | NO GAS | 0.637 | ug/l | 2701.57 |
| Ni | 60 | 72 | 3 | He | 0.508 | ug/l | 672.24 |
| Ni | 62 | 72 | 1 | NO GAS | 0.441 | ug/l | 741.88 |
| Cu | 63 | 72 | 1 | NO GAS | 3.603 | ug/l | 39088.25 |
| Cu | 63 | 72 | 3 | He | 3.321 | ug/l | 12645.55 |
| Cu | 65 | 72 | 1 | NO GAS | 3.203 | ug/l | 17277.47 |
| Zn | 66 | 72 | 1 | NO GAS | 56.458 | ug/l | 199752.80 |
| Zn | 66 | 72 | 3 | He | 60.361 | ug/l | 33429.96 |
| As | 75 | 72 | 1 | NO GAS | 0.509 | ug/l | 6132.60 |
| As | 75 | 72 | 3 | He | 0.189 | ug/l | 75.32 |
| Se | 78 | 72 | 2 | H2 | 0.244 | ug/l | 35.99 |
| Br | 79 | 72 | 1 | NO GAS | 9.103 | ug/l | 151120.46 |
| Br | 79 | 72 | 2 | H2 | 9.790 | ug/l | 23856.54 |
| Se | 82 | 72 | 1 | NO GAS | 1.604 | ug/l | 724.64 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 28658.11 |
| Sr | 88 | 72 | 1 | NO GAS | 80.349 | ug/l | 3517416.14 |
| Sr | 88 | 72 | 3 | He | 81.816 | ug/l | 145401.74 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.337 | ug/l | 3268.13 |
| Mo | 95 | 72 | 3 | He | 0.382 | ug/l | 1163.38 |
| Mo | 98 | 72 | 1 | NO GAS | 0.347 | ug/l | 5742.79 |
| Ag | 107 | 72 | 1 | NO GAS | -0.071 | ug/l | 237.29 |
| Ag | 109 | 72 | 1 | NO GAS | -0.068 | ug/l | 217.30 |
| Cd | 111 | 159 | 1 | NO GAS | 0.003 | ug/l | 37.21 |
| Cd | 111 | 159 | 3 | He | 0.003 | ug/l | 8.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.019 | ug/l | 59.82 |
| Cd | 114 | 159 | 3 | He | 0.009 | ug/l | 8.18 |
| Sn | 118 | 159 | 1 | NO GAS | -2.319 | ug/l | 4821.20 |
| Sn | 118 | 159 | 3 | He | -2.421 | ug/l | 708.91 |
| Sb | 121 | 159 | 1 | NO GAS | 2.599 | ug/l | 71570.18 |
| Sb | 121 | 159 | 3 | He | 2.775 | ug/l | 10441.25 |
| Sb | 123 | 159 | 1 | NO GAS | 2.563 | ug/l | 56039.40 |
| Sb | 123 | 159 | 3 | He | 2.744 | ug/l | 8415.59 |
| Ba | 135 | 159 | 1 | NO GAS | 6.429 | ug/l | 37443.29 |
| Ba | 137 | 159 | 1 | NO GAS | 6.483 | ug/l | 65501.55 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 190.20 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 26.69 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 250.26 |
| Ce | 140 | 175 | 3 | He | 0.002 | ug/l | 53.39 |
| Hg | 201 | 175 | 1 | NO GAS | 0.003 | ug/l | 38.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.047 | ug/l | 586.56 |
| Hg | 202 | 175 | 3 | He | 0.034 | ug/l | 274.95 |
| Tl | 203 | 175 | 3 | He | 0.093 | ug/l | 1776.42 |
| Tl | 205 | 175 | 1 | NO GAS | 0.062 | ug/l | 6402.54 |
| Tl | 205 | 175 | 3 | He | 0.092 | ug/l | 4344.44 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.103 | ug/l | 2632.47 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.101 | ug/l | 2242.41 |
| Pb | 208 | 175 | 1 | NO GAS | 0.102 | ug/l | 10277.00 |
| Th | 232 | 175 | 3 | He | -0.018 | ug/l | 467.25 |
| U | 238 | 175 | 1 | NO GAS | 0.015 | ug/l | 1939.41 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2480039.54 | 119.1 |
| Sc | 45 | 2 | H2 | 109458.74 | 120.5 |
| Sc | 45 | 3 | He | 62627.71 | 114.0 |
| Ge | 72 | 1 | NO GAS | 1033876.00 | 115.4 |
| Ge | 72 | 2 | H2 | 156447.84 | 120.8 |
| Ge | 72 | 3 | He | 97037.85 | 115.1 |
| Tb | 159 | 1 | NO GAS | 21268512.97 | 105.7 |
| Tb | 159 | 3 | He | 7735226.67 | 105.3 |
| Ho | 165 | 1 | NO GAS | 20053030.24 | 106.8 |
| Ho | 165 | 3 | He | 7637756.45 | 105.5 |
| Lu | 175 | 1 | NO GAS | 22255228.61 | 111.2 |
| Lu | 175 | 3 | He | 4609208.37 | 104.5 |

ICPMS206-B Analytical Data

Sample Name B22010975-001B
File Name 139SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 08:14:19
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -0.895 | ug/l | 2060.39 |
| Be | 9 | 45 | 1 | NO GAS | 0.000 | ug/l | 2.00 |
| B | 11 | 45 | 1 | NO GAS | 50.006 | ug/l | 10705.84 |
| Na | 23 | 45 | 3 | He | 39835.094 | ug/l | 3352482.00 |
| Mg | 24 | 45 | 3 | He | 11449.005 | ug/l | 501829.78 |
| Al | 27 | 45 | 1 | NO GAS | 23.093 | ug/l | 71905.36 |
| Si | 28 | 45 | 2 | H2 | 29006.181 | ug/l | 376481.65 |
| K | 39 | 72 | 3 | He | 1884.290 | ug/l | 84896.74 |
| Ca | 40 | 72 | 2 | H2 | 10108.386 | ug/l | 1972296.35 |
| Ti | 47 | 72 | 1 | NO GAS | 4.317 | ug/l | 3956.26 |
| V | 51 | 72 | 1 | NO GAS | 13.863 | ug/l | 177594.07 |
| V | 51 | 72 | 3 | He | 16.834 | ug/l | 21691.75 |
| Cr | 52 | 72 | 1 | NO GAS | 2.949 | ug/l | 53929.13 |
| Cr | 52 | 72 | 3 | He | 2.853 | ug/l | 4927.68 |
| Cr | 53 | 72 | 1 | NO GAS | 51.930 | ug/l | 184362.21 |
| Mn | 55 | 72 | 1 | NO GAS | 1.317 | ug/l | 27331.44 |
| Mn | 55 | 72 | 3 | He | 1.276 | ug/l | 1058.14 |
| Fe | 56 | 72 | 2 | H2 | 47.292 | ug/l | 53159.06 |
| Fe | 56 | 72 | 3 | He | 54.608 | ug/l | 84221.07 |
| Co | 59 | 72 | 1 | NO GAS | 0.055 | ug/l | 1004.72 |
| Ni | 60 | 72 | 1 | NO GAS | 0.811 | ug/l | 3057.60 |
| Ni | 60 | 72 | 3 | He | 0.700 | ug/l | 758.91 |
| Ni | 62 | 72 | 1 | NO GAS | 0.671 | ug/l | 795.12 |
| Cu | 63 | 72 | 1 | NO GAS | 2.294 | ug/l | 22345.08 |
| Cu | 63 | 72 | 3 | He | 1.833 | ug/l | 5889.86 |
| Cu | 65 | 72 | 1 | NO GAS | 1.792 | ug/l | 8717.22 |
| Zn | 66 | 72 | 1 | NO GAS | 61.290 | ug/l | 193184.63 |
| Zn | 66 | 72 | 3 | He | 65.554 | ug/l | 30223.91 |
| As | 75 | 72 | 1 | NO GAS | -0.361 | ug/l | 2492.20 |
| As | 75 | 72 | 3 | He | 0.121 | ug/l | 42.32 |
| Se | 78 | 72 | 2 | H2 | 0.212 | ug/l | 24.99 |
| Br | 79 | 72 | 1 | NO GAS | 3.516 | ug/l | 97006.80 |
| Br | 79 | 72 | 2 | H2 | 3.534 | ug/l | 12976.15 |
| Se | 82 | 72 | 1 | NO GAS | 1.206 | ug/l | 532.31 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 27538.27 |
| Sr | 88 | 72 | 1 | NO GAS | 86.632 | ug/l | 3379727.19 |
| Sr | 88 | 72 | 3 | He | 87.111 | ug/l | 128926.18 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.429 | ug/l | 3679.33 |
| Mo | 95 | 72 | 3 | He | 0.421 | ug/l | 1064.49 |
| Mo | 98 | 72 | 1 | NO GAS | 0.421 | ug/l | 6182.69 |
| Ag | 107 | 72 | 1 | NO GAS | -0.038 | ug/l | 983.84 |
| Ag | 109 | 72 | 1 | NO GAS | -0.036 | ug/l | 953.84 |
| Cd | 111 | 159 | 1 | NO GAS | -0.009 | ug/l | -46.66 |
| Cd | 111 | 159 | 3 | He | -0.001 | ug/l | 2.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.010 | ug/l | -82.22 |
| Cd | 114 | 159 | 3 | He | 0.011 | ug/l | 13.58 |
| Sn | 118 | 159 | 1 | NO GAS | -1.806 | ug/l | 15260.45 |
| Sn | 118 | 159 | 3 | He | -1.913 | ug/l | 2064.59 |
| Sb | 121 | 159 | 1 | NO GAS | 1.351 | ug/l | 39329.12 |
| Sb | 121 | 159 | 3 | He | 1.468 | ug/l | 5410.94 |
| Sb | 123 | 159 | 1 | NO GAS | 1.361 | ug/l | 31439.64 |
| Sb | 123 | 159 | 3 | He | 1.473 | ug/l | 4417.31 |
| Ba | 135 | 159 | 1 | NO GAS | 6.846 | ug/l | 41815.77 |
| Ba | 137 | 159 | 1 | NO GAS | 7.012 | ug/l | 74323.37 |
| La | 139 | 175 | 1 | NO GAS | 0.013 | ug/l | 1354.78 |
| La | 139 | 175 | 3 | He | 0.013 | ug/l | 280.29 |
| Ce | 140 | 175 | 1 | NO GAS | 0.025 | ug/l | 2469.40 |
| Ce | 140 | 175 | 3 | He | 0.029 | ug/l | 750.79 |
| Hg | 201 | 175 | 1 | NO GAS | 0.005 | ug/l | 46.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.037 | ug/l | 487.25 |
| Hg | 202 | 175 | 3 | He | 0.026 | ug/l | 220.29 |
| Tl | 203 | 175 | 3 | He | 0.028 | ug/l | 816.53 |
| Tl | 205 | 175 | 1 | NO GAS | 0.015 | ug/l | 3047.01 |
| Tl | 205 | 175 | 3 | He | 0.025 | ug/l | 1924.41 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.274 | ug/l | 7011.70 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.248 | ug/l | 5499.93 |
| Pb | 208 | 175 | 1 | NO GAS | 0.257 | ug/l | 26101.18 |
| Th | 232 | 175 | 3 | He | 0.039 | ug/l | 3482.40 |
| U | 238 | 175 | 1 | NO GAS | 0.017 | ug/l | 2126.73 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2069640.53 | 99.4 |
| Sc | 45 | 2 | H2 | 77215.91 | 85.0 |
| Sc | 45 | 3 | He | 50826.07 | 92.5 |
| Ge | 72 | 1 | NO GAS | 921294.93 | 102.8 |
| Ge | 72 | 2 | H2 | 122639.70 | 94.7 |
| Ge | 72 | 3 | He | 80809.06 | 95.9 |
| Tb | 159 | 1 | NO GAS | 22314528.74 | 110.9 |
| Tb | 159 | 3 | He | 7526994.75 | 102.5 |
| Ho | 165 | 1 | NO GAS | 20463434.38 | 109.0 |
| Ho | 165 | 3 | He | 7452323.10 | 102.9 |
| Lu | 175 | 1 | NO GAS | 22713587.79 | 113.5 |
| Lu | 175 | 3 | He | 4584783.74 | 103.9 |

ICPMS206-B Analytical Data

Sample Name B22010976-001A
File Name 140SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 08:20:05
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -2.282 | ug/l | 934.51 |
| Be | 9 | 45 | 1 | NO GAS | 0.014 | ug/l | 6.67 |
| B | 11 | 45 | 1 | NO GAS | 39.106 | ug/l | 9263.31 |
| Na | 23 | 45 | 3 | He | 39611.719 | ug/l | 3914817.79 |
| Mg | 24 | 45 | 3 | He | 16976.147 | ug/l | 874004.93 |
| Al | 27 | 45 | 1 | NO GAS | 0.666 | ug/l | 2861.37 |
| Si | 28 | 45 | 2 | H2 | 24299.606 | ug/l | 408342.25 |
| K | 39 | 72 | 3 | He | 1228.739 | ug/l | 65709.26 |
| Ca | 40 | 72 | 2 | H2 | 16712.463 | ug/l | 3974639.71 |
| Ti | 47 | 72 | 1 | NO GAS | 1.660 | ug/l | 1689.26 |
| V | 51 | 72 | 1 | NO GAS | 1.746 | ug/l | 1330.43 |
| V | 51 | 72 | 3 | He | -0.046 | ug/l | 286.67 |
| Cr | 52 | 72 | 1 | NO GAS | -0.536 | ug/l | 9310.87 |
| Cr | 52 | 72 | 3 | He | 0.001 | ug/l | 149.71 |
| Cr | 53 | 72 | 1 | NO GAS | -102.731 | ug/l | 24041.51 |
| Mn | 55 | 72 | 1 | NO GAS | 352.540 | ug/l | 7674753.40 |
| Mn | 55 | 72 | 3 | He | 367.653 | ug/l | 352720.38 |
| Fe | 56 | 72 | 2 | H2 | 98.033 | ug/l | 133985.81 |
| Fe | 56 | 72 | 3 | He | 105.843 | ug/l | 189954.16 |
| Co | 59 | 72 | 1 | NO GAS | 0.168 | ug/l | 3240.58 |
| Ni | 60 | 72 | 1 | NO GAS | 0.326 | ug/l | 1357.38 |
| Ni | 60 | 72 | 3 | He | 0.179 | ug/l | 254.45 |
| Ni | 62 | 72 | 1 | NO GAS | 0.263 | ug/l | 608.81 |
| Cu | 63 | 72 | 1 | NO GAS | 0.622 | ug/l | 7001.42 |
| Cu | 63 | 72 | 3 | He | 0.123 | ug/l | 653.88 |
| Cu | 65 | 72 | 1 | NO GAS | 0.189 | ug/l | 1243.80 |
| Zn | 66 | 72 | 1 | NO GAS | 7.090 | ug/l | 24734.72 |
| Zn | 66 | 72 | 3 | He | 7.801 | ug/l | 4255.01 |
| As | 75 | 72 | 1 | NO GAS | 0.660 | ug/l | 6531.48 |
| As | 75 | 72 | 3 | He | 0.183 | ug/l | 70.99 |
| Se | 78 | 72 | 2 | H2 | -0.007 | ug/l | 3.00 |
| Br | 79 | 72 | 1 | NO GAS | 8.931 | ug/l | 145815.37 |
| Br | 79 | 72 | 2 | H2 | 9.070 | ug/l | 21971.22 |
| Se | 82 | 72 | 1 | NO GAS | 1.818 | ug/l | 772.55 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 48178.00 |
| Sr | 88 | 72 | 1 | NO GAS | 151.767 | ug/l | 6465838.28 |
| Sr | 88 | 72 | 3 | He | 156.516 | ug/l | 270141.59 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 6.435 | ug/l | 58868.49 |
| Mo | 95 | 72 | 3 | He | 7.082 | ug/l | 20206.98 |
| Mo | 98 | 72 | 1 | NO GAS | 6.532 | ug/l | 102165.79 |
| Ag | 107 | 72 | 1 | NO GAS | -0.077 | ug/l | 67.32 |
| Ag | 109 | 72 | 1 | NO GAS | -0.074 | ug/l | 62.66 |
| Cd | 111 | 159 | 1 | NO GAS | -0.002 | ug/l | 1.68 |
| Cd | 111 | 159 | 3 | He | 0.003 | ug/l | 7.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.016 | ug/l | 10.36 |
| Cd | 114 | 159 | 3 | He | 0.010 | ug/l | 12.35 |
| Sn | 118 | 159 | 1 | NO GAS | -2.469 | ug/l | 1979.55 |
| Sn | 118 | 159 | 3 | He | -2.571 | ug/l | 283.34 |
| Sb | 121 | 159 | 1 | NO GAS | -0.002 | ug/l | 537.79 |
| Sb | 121 | 159 | 3 | He | 0.005 | ug/l | 94.45 |
| Sb | 123 | 159 | 1 | NO GAS | -0.003 | ug/l | 404.45 |
| Sb | 123 | 159 | 3 | He | 0.007 | ug/l | 72.22 |
| Ba | 135 | 159 | 1 | NO GAS | 2.315 | ug/l | 13499.07 |
| Ba | 137 | 159 | 1 | NO GAS | 2.350 | ug/l | 23780.79 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 130.13 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 26.69 |
| Ce | 140 | 175 | 1 | NO GAS | 0.003 | ug/l | 323.67 |
| Ce | 140 | 175 | 3 | He | 0.003 | ug/l | 80.08 |
| Hg | 201 | 175 | 1 | NO GAS | 0.002 | ug/l | 32.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.087 | ug/l | 987.17 |
| Hg | 202 | 175 | 3 | He | 0.066 | ug/l | 492.58 |
| Tl | 203 | 175 | 3 | He | 0.058 | ug/l | 1232.48 |
| Tl | 205 | 175 | 1 | NO GAS | 0.038 | ug/l | 4516.27 |
| Tl | 205 | 175 | 3 | He | 0.055 | ug/l | 2959.05 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.008 | ug/l | 266.67 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.005 | ug/l | 165.56 |
| Pb | 208 | 175 | 1 | NO GAS | 0.007 | ug/l | 925.58 |
| Th | 232 | 175 | 3 | He | -0.018 | ug/l | 478.58 |
| U | 238 | 175 | 1 | NO GAS | 0.006 | ug/l | 805.53 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2271559.62 | 109.1 |
| Sc | 45 | 2 | H2 | 99911.99 | 110.0 |
| Sc | 45 | 3 | He | 59686.64 | 108.7 |
| Ge | 72 | 1 | NO GAS | 1006171.47 | 112.3 |
| Ge | 72 | 2 | H2 | 149473.41 | 115.4 |
| Ge | 72 | 3 | He | 94326.30 | 111.9 |
| Tb | 159 | 1 | NO GAS | 21273719.63 | 105.7 |
| Tb | 159 | 3 | He | 7557456.67 | 102.9 |
| Ho | 165 | 1 | NO GAS | 19574588.48 | 104.3 |
| Ho | 165 | 3 | He | 7372169.67 | 101.8 |
| Lu | 175 | 1 | NO GAS | 21625503.70 | 108.0 |
| Lu | 175 | 3 | He | 4529402.84 | 102.7 |

ICPMS206-B Analytical Data

Sample Name B22010976-001B
File Name 141SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 08:25:49
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -1.533 | ug/l | 1552.43 |
| Be | 9 | 45 | 1 | NO GAS | 0.016 | ug/l | 6.33 |
| B | 11 | 45 | 1 | NO GAS | 39.485 | ug/l | 8224.33 |
| Na | 23 | 45 | 3 | He | 40901.884 | ug/l | 3379584.57 |
| Mg | 24 | 45 | 3 | He | 18320.700 | ug/l | 788501.51 |
| Al | 27 | 45 | 1 | NO GAS | 2.329 | ug/l | 7482.78 |
| Si | 28 | 45 | 2 | H2 | 24637.852 | ug/l | 303137.55 |
| K | 39 | 72 | 3 | He | 1226.553 | ug/l | 55576.97 |
| Ca | 40 | 72 | 2 | H2 | 16032.203 | ug/l | 3004256.10 |
| Ti | 47 | 72 | 1 | NO GAS | 2.193 | ug/l | 1984.15 |
| V | 51 | 72 | 1 | NO GAS | -0.158 | ug/l | -25893.84 |
| V | 51 | 72 | 3 | He | 0.282 | ug/l | 655.57 |
| Cr | 52 | 72 | 1 | NO GAS | 0.424 | ug/l | 20545.38 |
| Cr | 52 | 72 | 3 | He | 0.126 | ug/l | 336.01 |
| Cr | 53 | 72 | 1 | NO GAS | 50.431 | ug/l | 178573.27 |
| Mn | 55 | 72 | 1 | NO GAS | 362.846 | ug/l | 7063471.10 |
| Mn | 55 | 72 | 3 | He | 381.983 | ug/l | 310516.38 |
| Fe | 56 | 72 | 2 | H2 | 127.222 | ug/l | 136927.11 |
| Fe | 56 | 72 | 3 | He | 143.221 | ug/l | 217587.42 |
| Co | 59 | 72 | 1 | NO GAS | 0.189 | ug/l | 3240.57 |
| Ni | 60 | 72 | 1 | NO GAS | 0.414 | ug/l | 1533.71 |
| Ni | 60 | 72 | 3 | He | 0.242 | ug/l | 280.00 |
| Ni | 62 | 72 | 1 | NO GAS | 0.347 | ug/l | 592.18 |
| Cu | 63 | 72 | 1 | NO GAS | 0.873 | ug/l | 8595.19 |
| Cu | 63 | 72 | 3 | He | 0.314 | ug/l | 1142.81 |
| Cu | 65 | 72 | 1 | NO GAS | 0.414 | ug/l | 2150.39 |
| Zn | 66 | 72 | 1 | NO GAS | 3.948 | ug/l | 12461.64 |
| Zn | 66 | 72 | 3 | He | 4.142 | ug/l | 1939.01 |
| As | 75 | 72 | 1 | NO GAS | 0.490 | ug/l | 5268.20 |
| As | 75 | 72 | 3 | He | 0.175 | ug/l | 57.66 |
| Se | 78 | 72 | 2 | H2 | 0.033 | ug/l | 6.33 |
| Br | 79 | 72 | 1 | NO GAS | 1.574 | ug/l | 81939.44 |
| Br | 79 | 72 | 2 | H2 | 2.502 | ug/l | 11551.27 |
| Se | 82 | 72 | 1 | NO GAS | 1.053 | ug/l | 476.42 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 45162.55 |
| Sr | 88 | 72 | 1 | NO GAS | 167.463 | ug/l | 6380502.55 |
| Sr | 88 | 72 | 3 | He | 171.703 | ug/l | 251083.69 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 7.846 | ug/l | 64168.21 |
| Mo | 95 | 72 | 3 | He | 8.587 | ug/l | 20754.33 |
| Mo | 98 | 72 | 1 | NO GAS | 7.923 | ug/l | 110803.90 |
| Ag | 107 | 72 | 1 | NO GAS | -0.071 | ug/l | 205.30 |
| Ag | 109 | 72 | 1 | NO GAS | -0.067 | ug/l | 207.30 |
| Cd | 111 | 159 | 1 | NO GAS | -0.001 | ug/l | 9.36 |
| Cd | 111 | 159 | 3 | He | 0.001 | ug/l | 4.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.012 | ug/l | -45.83 |
| Cd | 114 | 159 | 3 | He | 0.008 | ug/l | 4.84 |
| Sn | 118 | 159 | 1 | NO GAS | -2.164 | ug/l | 7952.93 |
| Sn | 118 | 159 | 3 | He | -2.262 | ug/l | 1104.49 |
| Sb | 121 | 159 | 1 | NO GAS | 0.012 | ug/l | 958.93 |
| Sb | 121 | 159 | 3 | He | 0.020 | ug/l | 147.78 |
| Sb | 123 | 159 | 1 | NO GAS | 0.019 | ug/l | 910.03 |
| Sb | 123 | 159 | 3 | He | 0.033 | ug/l | 146.67 |
| Ba | 135 | 159 | 1 | NO GAS | 2.284 | ug/l | 13648.96 |
| Ba | 137 | 159 | 1 | NO GAS | 2.256 | ug/l | 23404.41 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 176.85 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 46.71 |
| Ce | 140 | 175 | 1 | NO GAS | 0.004 | ug/l | 443.80 |
| Ce | 140 | 175 | 3 | He | 0.004 | ug/l | 110.11 |
| Hg | 201 | 175 | 1 | NO GAS | 0.007 | ug/l | 58.66 |
| Hg | 202 | 175 | 1 | NO GAS | 0.114 | ug/l | 1325.13 |
| Hg | 202 | 175 | 3 | He | 0.080 | ug/l | 590.89 |
| Tl | 203 | 175 | 3 | He | 0.013 | ug/l | 595.90 |
| Tl | 205 | 175 | 1 | NO GAS | 0.001 | ug/l | 2009.04 |
| Tl | 205 | 175 | 3 | He | 0.009 | ug/l | 1326.47 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.063 | ug/l | 1651.22 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.057 | ug/l | 1313.40 |
| Pb | 208 | 175 | 1 | NO GAS | 0.061 | ug/l | 6348.36 |
| Th | 232 | 175 | 3 | He | 0.023 | ug/l | 2615.72 |
| U | 238 | 175 | 1 | NO GAS | 0.006 | ug/l | 884.86 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1998977.73 | 96.0 |
| Sc | 45 | 2 | H2 | 73206.83 | 80.6 |
| Sc | 45 | 3 | He | 49941.17 | 90.9 |
| Ge | 72 | 1 | NO GAS | 899781.22 | 100.4 |
| Ge | 72 | 2 | H2 | 117763.30 | 91.0 |
| Ge | 72 | 3 | He | 79924.62 | 94.8 |
| Tb | 159 | 1 | NO GAS | 21808817.84 | 108.4 |
| Tb | 159 | 3 | He | 7434540.43 | 101.2 |
| Ho | 165 | 1 | NO GAS | 20338472.55 | 108.3 |
| Ho | 165 | 3 | He | 7238182.51 | 100.0 |
| Lu | 175 | 1 | NO GAS | 22612703.78 | 113.0 |
| Lu | 175 | 3 | He | 4527978.86 | 102.6 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 142_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 08:31:32
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 316.723 | ug/l | 247338.68 |
| Be | 9 | 45 | 1 | NO GAS | 40.967 | ug/l | 11430.10 |
| B | 11 | 45 | 1 | NO GAS | 40.962 | ug/l | 8540.41 |
| Na | 23 | 45 | 3 | He | 11640.702 | ug/l | 989132.37 |
| Mg | 24 | 45 | 3 | He | 11081.733 | ug/l | 487727.41 |
| Al | 27 | 45 | 1 | NO GAS | 42.599 | ug/l | 127966.93 |
| Si | 28 | 45 | 2 | H2 | 184.714 | ug/l | 3391.01 |
| K | 39 | 72 | 3 | He | 10415.526 | ug/l | 461924.80 |
| Ca | 40 | 72 | 2 | H2 | 11244.084 | ug/l | 2194798.70 |
| Ti | 47 | 72 | 1 | NO GAS | 41.874 | ug/l | 38850.28 |
| V | 51 | 72 | 1 | NO GAS | 40.926 | ug/l | 582405.54 |
| V | 51 | 72 | 3 | He | 49.364 | ug/l | 63713.68 |
| Cr | 52 | 72 | 1 | NO GAS | 41.959 | ug/l | 573869.43 |
| Cr | 52 | 72 | 3 | He | 49.878 | ug/l | 85004.42 |
| Cr | 53 | 72 | 1 | NO GAS | 34.439 | ug/l | 169465.85 |
| Mn | 55 | 72 | 1 | NO GAS | 43.376 | ug/l | 882167.06 |
| Mn | 55 | 72 | 3 | He | 48.291 | ug/l | 40130.14 |
| Fe | 56 | 72 | 2 | H2 | 1146.197 | ug/l | 1282687.07 |
| Fe | 56 | 72 | 3 | He | 1277.106 | ug/l | 1979257.85 |
| Co | 59 | 72 | 1 | NO GAS | 43.225 | ug/l | 761542.79 |
| Ni | 60 | 72 | 1 | NO GAS | 45.879 | ug/l | 175614.89 |
| Ni | 60 | 72 | 3 | He | 50.906 | ug/l | 53613.82 |
| Ni | 62 | 72 | 1 | NO GAS | 46.103 | ug/l | 27781.30 |
| Cu | 63 | 72 | 1 | NO GAS | 46.343 | ug/l | 451324.50 |
| Cu | 63 | 72 | 3 | He | 52.220 | ug/l | 164752.61 |
| Cu | 65 | 72 | 1 | NO GAS | 47.029 | ug/l | 227108.90 |
| Zn | 66 | 72 | 1 | NO GAS | 45.422 | ug/l | 146096.18 |
| Zn | 66 | 72 | 3 | He | 49.994 | ug/l | 23308.49 |
| As | 75 | 72 | 1 | NO GAS | 46.172 | ug/l | 164236.62 |
| As | 75 | 72 | 3 | He | 51.674 | ug/l | 15651.53 |
| Se | 78 | 72 | 2 | H2 | 53.145 | ug/l | 5458.81 |
| Br | 79 | 72 | 1 | NO GAS | 0.882 | ug/l | 80902.64 |
| Br | 79 | 72 | 2 | H2 | 2.052 | ug/l | 11634.39 |
| Se | 82 | 72 | 1 | NO GAS | 49.244 | ug/l | 14619.39 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 20758.73 |
| Sr | 88 | 72 | 1 | NO GAS | 50.895 | ug/l | 2024948.05 |
| Sr | 88 | 72 | 3 | He | 53.873 | ug/l | 80672.96 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 49.594 | ug/l | 423118.54 |
| Mo | 95 | 72 | 3 | He | 54.500 | ug/l | 134444.51 |
| Mo | 98 | 72 | 1 | NO GAS | 49.300 | ug/l | 719185.29 |
| Ag | 107 | 72 | 1 | NO GAS | 20.501 | ug/l | 497410.93 |
| Ag | 109 | 72 | 1 | NO GAS | 20.314 | ug/l | 485197.95 |
| Cd | 111 | 159 | 1 | NO GAS | 44.254 | ug/l | 292759.90 |
| Cd | 111 | 159 | 3 | He | 49.331 | ug/l | 69591.21 |
| Cd | 114 | 159 | 1 | NO GAS | 45.566 | ug/l | 698896.59 |
| Cd | 114 | 159 | 3 | He | 48.705 | ug/l | 179044.76 |
| Sn | 118 | 159 | 1 | NO GAS | 43.546 | ug/l | 889381.81 |
| Sn | 118 | 159 | 3 | He | 46.678 | ug/l | 127370.80 |
| Sb | 121 | 159 | 1 | NO GAS | 43.369 | ug/l | 1204874.14 |
| Sb | 121 | 159 | 3 | He | 47.892 | ug/l | 166025.12 |
| Sb | 123 | 159 | 1 | NO GAS | 43.508 | ug/l | 961682.64 |
| Sb | 123 | 159 | 3 | He | 48.433 | ug/l | 137036.76 |
| Ba | 135 | 159 | 1 | NO GAS | 45.846 | ug/l | 271845.56 |
| Ba | 137 | 159 | 1 | NO GAS | 46.008 | ug/l | 473213.18 |
| La | 139 | 175 | 1 | NO GAS | 46.070 | ug/l | 4354630.42 |
| La | 139 | 175 | 3 | He | 47.779 | ug/l | 892743.59 |
| Ce | 140 | 175 | 1 | NO GAS | 47.616 | ug/l | 4463518.93 |
| Ce | 140 | 175 | 3 | He | 48.088 | ug/l | 1138974.33 |
| Hg | 201 | 175 | 1 | NO GAS | 0.914 | ug/l | 4290.09 |
| Hg | 202 | 175 | 1 | NO GAS | 0.934 | ug/l | 10116.35 |
| Hg | 202 | 175 | 3 | He | 1.043 | ug/l | 6848.52 |
| Tl | 203 | 175 | 3 | He | 51.764 | ug/l | 706799.14 |
| Tl | 205 | 175 | 1 | NO GAS | 47.394 | ug/l | 3510611.16 |
| Tl | 205 | 175 | 3 | He | 51.902 | ug/l | 1736900.42 |
| [Pb] | 206 | 175 | 1 | NO GAS | 46.115 | ug/l | 1152434.04 |
| [Pb] | 207 | 175 | 1 | NO GAS | 46.050 | ug/l | 997114.84 |
| Pb | 208 | 175 | 1 | NO GAS | 46.487 | ug/l | 4607082.02 |
| Th | 232 | 175 | 3 | He | 53.143 | ug/l | 2595974.15 |
| U | 238 | 175 | 1 | NO GAS | 46.209 | ug/l | 5266075.32 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2017560.84 | 96.9 |
| Sc | 45 | 2 | H2 | 78392.30 | 86.3 |
| Sc | 45 | 3 | He | 51022.72 | 92.9 |
| Ge | 72 | 1 | NO GAS | 944092.67 | 105.4 |
| Ge | 72 | 2 | H2 | 122758.83 | 94.8 |
| Ge | 72 | 3 | He | 81679.46 | 96.9 |
| Tb | 159 | 1 | NO GAS | 21916106.37 | 108.9 |
| Tb | 159 | 3 | He | 7176021.55 | 97.7 |
| Ho | 165 | 1 | NO GAS | 20433119.90 | 108.9 |
| Ho | 165 | 3 | He | 7049151.82 | 97.3 |
| Lu | 175 | 1 | NO GAS | 22558525.02 | 112.7 |
| Lu | 175 | 3 | He | 4300035.66 | 97.5 |

ICPMS206-B Analytical Data

Sample Name CCB
File Name 143_CCB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 08:37:14
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -1.122 | ug/l | 1787.74 |
| Be | 9 | 45 | 1 | NO GAS | 0.003 | ug/l | 2.67 |
| B | 11 | 45 | 1 | NO GAS | -0.262 | ug/l | 233.96 |
| Na | 23 | 45 | 3 | He | 8.883 | ug/l | 8890.10 |
| Mg | 24 | 45 | 3 | He | 1.016 | ug/l | 106.45 |
| Al | 27 | 45 | 1 | NO GAS | 0.008 | ug/l | 537.79 |
| Si | 28 | 45 | 2 | H2 | -69.965 | ug/l | 45.99 |
| K | 39 | 72 | 3 | He | -4.509 | ug/l | 2480.20 |
| Ca | 40 | 72 | 2 | H2 | 1.245 | ug/l | 741.32 |
| Ti | 47 | 72 | 1 | NO GAS | 0.034 | ug/l | 66.63 |
| V | 51 | 72 | 1 | NO GAS | 0.023 | ug/l | -22789.55 |
| V | 51 | 72 | 3 | He | -0.019 | ug/l | 277.78 |
| Cr | 52 | 72 | 1 | NO GAS | -0.139 | ug/l | 13059.20 |
| Cr | 52 | 72 | 3 | He | -0.012 | ug/l | 106.45 |
| Cr | 53 | 72 | 1 | NO GAS | -11.257 | ug/l | 112491.58 |
| Mn | 55 | 72 | 1 | NO GAS | 0.003 | ug/l | 1104.52 |
| Mn | 55 | 72 | 3 | He | 0.008 | ug/l | 15.33 |
| Fe | 56 | 72 | 2 | H2 | 0.092 | ug/l | 371.49 |
| Fe | 56 | 72 | 3 | He | 0.090 | ug/l | 654.69 |
| Co | 59 | 72 | 1 | NO GAS | 0.001 | ug/l | 73.19 |
| Ni | 60 | 72 | 1 | NO GAS | 0.010 | ug/l | 53.23 |
| Ni | 60 | 72 | 3 | He | -0.018 | ug/l | 12.22 |
| Ni | 62 | 72 | 1 | NO GAS | -0.112 | ug/l | 322.70 |
| Cu | 63 | 72 | 1 | NO GAS | 0.076 | ug/l | 1151.82 |
| Cu | 63 | 72 | 3 | He | 0.166 | ug/l | 685.21 |
| Cu | 65 | 72 | 1 | NO GAS | 0.064 | ug/l | 518.57 |
| Zn | 66 | 72 | 1 | NO GAS | -0.009 | ug/l | 292.52 |
| Zn | 66 | 72 | 3 | He | -0.023 | ug/l | 44.45 |
| As | 75 | 72 | 1 | NO GAS | -0.284 | ug/l | 2627.61 |
| As | 75 | 72 | 3 | He | 0.000 | ug/l | 6.00 |
| Se | 78 | 72 | 2 | H2 | 0.040 | ug/l | 7.00 |
| Br | 79 | 72 | 1 | NO GAS | 0.364 | ug/l | 72156.65 |
| Br | 79 | 72 | 2 | H2 | 0.692 | ug/l | 10043.24 |
| Se | 82 | 72 | 1 | NO GAS | 0.564 | ug/l | 330.69 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 7030.94 |
| Sr | 88 | 72 | 1 | NO GAS | 0.007 | ug/l | 625.44 |
| Sr | 88 | 72 | 3 | He | 0.003 | ug/l | 216.67 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.015 | ug/l | 208.89 |
| Mo | 95 | 72 | 3 | He | 0.020 | ug/l | 85.56 |
| Mo | 98 | 72 | 1 | NO GAS | 0.010 | ug/l | 284.18 |
| Ag | 107 | 72 | 1 | NO GAS | 0.002 | ug/l | 1855.08 |
| Ag | 109 | 72 | 1 | NO GAS | 0.005 | ug/l | 1808.41 |
| Cd | 111 | 159 | 1 | NO GAS | 0.004 | ug/l | 41.53 |
| Cd | 111 | 159 | 3 | He | 0.002 | ug/l | 6.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.001 | ug/l | -199.97 |
| Cd | 114 | 159 | 3 | He | 0.000 | ug/l | -26.09 |
| Sn | 118 | 159 | 1 | NO GAS | 0.003 | ug/l | 46478.69 |
| Sn | 118 | 159 | 3 | He | -0.094 | ug/l | 6693.67 |
| Sb | 121 | 159 | 1 | NO GAS | 0.033 | ug/l | 1426.74 |
| Sb | 121 | 159 | 3 | He | 0.026 | ug/l | 164.45 |
| Sb | 123 | 159 | 1 | NO GAS | 0.036 | ug/l | 1188.94 |
| Sb | 123 | 159 | 3 | He | 0.036 | ug/l | 151.11 |
| Ba | 135 | 159 | 1 | NO GAS | 0.003 | ug/l | 39.92 |
| Ba | 137 | 159 | 1 | NO GAS | 0.005 | ug/l | 93.15 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 180.19 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 33.37 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 223.56 |
| Ce | 140 | 175 | 3 | He | 0.003 | ug/l | 76.74 |
| Hg | 201 | 175 | 1 | NO GAS | 0.003 | ug/l | 35.33 |
| Hg | 202 | 175 | 1 | NO GAS | 0.005 | ug/l | 131.97 |
| Hg | 202 | 175 | 3 | He | 0.002 | ug/l | 48.66 |
| Tl | 203 | 175 | 3 | He | 0.042 | ug/l | 951.84 |
| Tl | 205 | 175 | 1 | NO GAS | 0.034 | ug/l | 4169.50 |
| Tl | 205 | 175 | 3 | He | 0.043 | ug/l | 2386.39 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.002 | ug/l | 112.22 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.001 | ug/l | 90.00 |
| Pb | 208 | 175 | 1 | NO GAS | 0.002 | ug/l | 418.90 |
| Th | 232 | 175 | 3 | He | 0.033 | ug/l | 2953.05 |
| U | 238 | 175 | 1 | NO GAS | 0.005 | ug/l | 688.88 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1932353.57 | 92.8 |
| Sc | 45 | 2 | H2 | 75968.82 | 83.7 |
| Sc | 45 | 3 | He | 48403.61 | 88.1 |
| Ge | 72 | 1 | NO GAS | 877692.21 | 98.0 |
| Ge | 72 | 2 | H2 | 118763.93 | 91.7 |
| Ge | 72 | 3 | He | 79954.68 | 94.9 |
| Tb | 159 | 1 | NO GAS | 20250645.35 | 100.6 |
| Tb | 159 | 3 | He | 7214048.59 | 98.2 |
| Ho | 165 | 1 | NO GAS | 19415110.89 | 103.4 |
| Ho | 165 | 3 | He | 7157306.12 | 98.8 |
| Lu | 175 | 1 | NO GAS | 21284827.41 | 106.3 |
| Lu | 175 | 3 | He | 4262501.42 | 96.6 |

ICPMS206-B Analytical Data

Sample Name B22010977-001A
File Name 144SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 08:43:02
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -1.968 | ug/l | 1163.81 |
| Be | 9 | 45 | 1 | NO GAS | 0.006 | ug/l | 4.00 |
| B | 11 | 45 | 1 | NO GAS | 76.326 | ug/l | 17122.33 |
| Na | 23 | 45 | 3 | He | 57020.152 | ug/l | 5439338.98 |
| Mg | 24 | 45 | 3 | He | 32130.350 | ug/l | 1597354.15 |
| Al | 27 | 45 | 1 | NO GAS | 2.784 | ug/l | 9683.91 |
| Si | 28 | 45 | 2 | H2 | 24047.386 | ug/l | 390542.00 |
| K | 39 | 72 | 3 | He | 2694.312 | ug/l | 137379.43 |
| Ca | 40 | 72 | 2 | H2 | 27246.299 | ug/l | 6350507.41 |
| Ti | 47 | 72 | 1 | NO GAS | 1.552 | ug/l | 1481.02 |
| V | 51 | 72 | 1 | NO GAS | 9.490 | ug/l | 116321.36 |
| V | 51 | 72 | 3 | He | 7.898 | ug/l | 11814.22 |
| Cr | 52 | 72 | 1 | NO GAS | -0.190 | ug/l | 13325.58 |
| Cr | 52 | 72 | 3 | He | 0.329 | ug/l | 778.48 |
| Cr | 53 | 72 | 1 | NO GAS | -98.210 | ug/l | 27339.79 |
| Mn | 55 | 72 | 1 | NO GAS | 215.801 | ug/l | 4395628.44 |
| Mn | 55 | 72 | 3 | He | 214.835 | ug/l | 201752.37 |
| Fe | 56 | 72 | 2 | H2 | 3.700 | ug/l | 5273.26 |
| Fe | 56 | 72 | 3 | He | 3.890 | ug/l | 7406.34 |
| Co | 59 | 72 | 1 | NO GAS | 0.362 | ug/l | 6438.52 |
| Ni | 60 | 72 | 1 | NO GAS | 2.399 | ug/l | 9210.99 |
| Ni | 60 | 72 | 3 | He | 2.291 | ug/l | 2760.24 |
| Ni | 62 | 72 | 1 | NO GAS | 2.245 | ug/l | 1746.64 |
| Cu | 63 | 72 | 1 | NO GAS | 1.016 | ug/l | 10385.18 |
| Cu | 63 | 72 | 3 | He | 0.284 | ug/l | 1213.47 |
| Cu | 65 | 72 | 1 | NO GAS | 0.389 | ug/l | 2127.72 |
| Zn | 66 | 72 | 1 | NO GAS | 2.999 | ug/l | 9984.06 |
| Zn | 66 | 72 | 3 | He | 3.131 | ug/l | 1708.99 |
| As | 75 | 72 | 1 | NO GAS | 0.981 | ug/l | 7225.95 |
| As | 75 | 72 | 3 | He | 0.657 | ug/l | 231.62 |
| Se | 78 | 72 | 2 | H2 | 0.134 | ug/l | 20.00 |
| Br | 79 | 72 | 1 | NO GAS | 46.064 | ug/l | 392059.17 |
| Br | 79 | 72 | 2 | H2 | 44.426 | ug/l | 60193.46 |
| Se | 82 | 72 | 1 | NO GAS | 2.232 | ug/l | 844.40 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 60497.08 |
| Sr | 88 | 72 | 1 | NO GAS | 240,148 | ug/l | 9570977.46 |
| Sr | 88 | 72 | 3 | He | 238.728 | ug/l | 403133.97 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 10.695 | ug/l | 91454.20 |
| Mo | 95 | 72 | 3 | He | 11.175 | ug/l | 31188.58 |
| Mo | 98 | 72 | 1 | NO GAS | 10.585 | ug/l | 154794.78 |
| Ag | 107 | 72 | 1 | NO GAS | -0.077 | ug/l | 71.99 |
| Ag | 109 | 72 | 1 | NO GAS | -0.074 | ug/l | 65.32 |
| Cd | 111 | 159 | 1 | NO GAS | -0.005 | ug/l | -14.12 |
| Cd | 111 | 159 | 3 | He | 0.005 | ug/l | 10.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.016 | ug/l | 16.90 |
| Cd | 114 | 159 | 3 | He | 0.015 | ug/l | 27.68 |
| Sn | 118 | 159 | 1 | NO GAS | -2.424 | ug/l | 2731.50 |
| Sn | 118 | 159 | 3 | He | -2.522 | ug/l | 406.68 |
| Sb | 121 | 159 | 1 | NO GAS | 0.343 | ug/l | 9615.16 |
| Sb | 121 | 159 | 3 | He | 0.401 | ug/l | 1493.42 |
| Sb | 123 | 159 | 1 | NO GAS | 0.348 | ug/l | 7718.58 |
| Sb | 123 | 159 | 3 | He | 0.390 | ug/l | 1175.61 |
| Ba | 135 | 159 | 1 | NO GAS | 4.175 | ug/l | 23440.85 |
| Ba | 137 | 159 | 1 | NO GAS | 4.028 | ug/l | 39237.53 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 186.86 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 46.71 |
| Ce | 140 | 175 | 1 | NO GAS | 0.002 | ug/l | 273.62 |
| Ce | 140 | 175 | 3 | He | 0.003 | ug/l | 86.75 |
| Hg | 201 | 175 | 1 | NO GAS | 0.003 | ug/l | 35.99 |
| Hg | 202 | 175 | 1 | NO GAS | 0.055 | ug/l | 644.55 |
| Hg | 202 | 175 | 3 | He | 0.046 | ug/l | 346.94 |
| Tl | 203 | 175 | 3 | He | 0.044 | ug/l | 1020.50 |
| Tl | 205 | 175 | 1 | NO GAS | 0.033 | ug/l | 4146.15 |
| Tl | 205 | 175 | 3 | He | 0.042 | ug/l | 2459.05 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.005 | ug/l | 186.67 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.005 | ug/l | 158.89 |
| Pb | 208 | 175 | 1 | NO GAS | 0.005 | ug/l | 733.35 |
| Th | 232 | 175 | 3 | He | -0.008 | ug/l | 1002.50 |
| U | 238 | 175 | 1 | NO GAS | 0.070 | ug/l | 7796.83 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2190173.10 | 105.2 |
| Sc | 45 | 2 | H2 | 96599.10 | 106.4 |
| Sc | 45 | 3 | He | 57646.79 | 105.0 |
| Ge | 72 | 1 | NO GAS | 941185.73 | 105.1 |
| Ge | 72 | 2 | H2 | 146416.04 | 113.1 |
| Ge | 72 | 3 | He | 92324.52 | 109.5 |
| Tb | 159 | 1 | NO GAS | 20499265.63 | 101.9 |
| Tb | 159 | 3 | He | 7334585.06 | 99.8 |
| Ho | 165 | 1 | NO GAS | 19485138.20 | 103.8 |
| Ho | 165 | 3 | He | 7320796.47 | 101.1 |
| Lu | 175 | 1 | NO GAS | 21285291.63 | 106.3 |
| Lu | 175 | 3 | He | 4451328.72 | 100.9 |

ICPMS206-B Analytical Data

Sample Name B22010977-001B
File Name 145SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 08:48:48
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -1.373 | ug/l | 1582.43 |
| Be | 9 | 45 | 1 | NO GAS | 0.004 | ug/l | 2.67 |
| B | 11 | 45 | 1 | NO GAS | 79.872 | ug/l | 15174.97 |
| Na | 23 | 45 | 3 | He | 58888.330 | ug/l | 4669818.72 |
| Mg | 24 | 45 | 3 | He | 32481.726 | ug/l | 1342856.55 |
| Al | 27 | 45 | 1 | NO GAS | 6.696 | ug/l | 19025.05 |
| Si | 28 | 45 | 2 | H2 | 23468.928 | ug/l | 278072.19 |
| K | 39 | 72 | 3 | He | 2640.462 | ug/l | 109172.58 |
| Ca | 40 | 72 | 2 | H2 | 24735.658 | ug/l | 4435013.39 |
| Ti | 47 | 72 | 1 | NO GAS | 1.896 | ug/l | 1682.60 |
| V | 51 | 72 | 1 | NO GAS | 6.627 | ug/l | 69828.45 |
| V | 51 | 72 | 3 | He | 8.397 | ug/l | 10162.00 |
| Cr | 52 | 72 | 1 | NO GAS | 0.695 | ug/l | 23583.20 |
| Cr | 52 | 72 | 3 | He | 0.519 | ug/l | 928.20 |
| Cr | 53 | 72 | 1 | NO GAS | 32.769 | ug/l | 157325.37 |
| Mn | 55 | 72 | 1 | NO GAS | 199.789 | ug/l | 3806626.74 |
| Mn | 55 | 72 | 3 | He | 223.394 | ug/l | 170049.44 |
| Fe | 56 | 72 | 2 | H2 | 9.484 | ug/l | 9993.06 |
| Fe | 56 | 72 | 3 | He | 10.585 | ug/l | 15507.86 |
| Co | 59 | 72 | 1 | NO GAS | 0.365 | ug/l | 6109.06 |
| Ni | 60 | 72 | 1 | NO GAS | 2.554 | ug/l | 9181.05 |
| Ni | 60 | 72 | 3 | He | 2.444 | ug/l | 2384.63 |
| Ni | 62 | 72 | 1 | NO GAS | 1.800 | ug/l | 1407.28 |
| Cu | 63 | 72 | 1 | NO GAS | 0.966 | ug/l | 9298.11 |
| Cu | 63 | 72 | 3 | He | 0.250 | ug/l | 884.18 |
| Cu | 65 | 72 | 1 | NO GAS | 0.371 | ug/l | 1926.40 |
| Zn | 66 | 72 | 1 | NO GAS | 4.652 | ug/l | 14321.83 |
| Zn | 66 | 72 | 3 | He | 5.017 | ug/l | 2190.16 |
| As | 75 | 72 | 1 | NO GAS | 0.734 | ug/l | 6084.92 |
| As | 75 | 72 | 3 | He | 0.689 | ug/l | 196.63 |
| Se | 78 | 72 | 2 | H2 | 0.195 | ug/l | 21.33 |
| Br | 79 | 72 | 1 | NO GAS | 4.538 | ug/l | 99378.49 |
| Br | 79 | 72 | 2 | H2 | 5.936 | ug/l | 13938.35 |
| Se | 82 | 72 | 1 | NO GAS | 0.098 | ug/l | 208.93 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 57439.18 |
| Sr | 88 | 72 | 1 | NO GAS | 234.605 | ug/l | 8756315.30 |
| Sr | 88 | 72 | 3 | He | 257.933 | ug/l | 353067.62 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 11.761 | ug/l | 94201.76 |
| Mo | 95 | 72 | 3 | He | 13.106 | ug/l | 29647.91 |
| Mo | 98 | 72 | 1 | NO GAS | 11.709 | ug/l | 160602.85 |
| Ag | 107 | 72 | 1 | NO GAS | -0.068 | ug/l | 277.28 |
| Ag | 109 | 72 | 1 | NO GAS | -0.064 | ug/l | 281.95 |
| Cd | 111 | 159 | 1 | NO GAS | 0.003 | ug/l | 32.71 |
| Cd | 111 | 159 | 3 | He | 0.010 | ug/l | 17.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.025 | ug/l | 152.97 |
| Cd | 114 | 159 | 3 | He | 0.013 | ug/l | 21.45 |
| Sn | 118 | 159 | 1 | NO GAS | -2.094 | ug/l | 8555.35 |
| Sn | 118 | 159 | 3 | He | -2.192 | ug/l | 1230.06 |
| Sb | 121 | 159 | 1 | NO GAS | 0.368 | ug/l | 10013.16 |
| Sb | 121 | 159 | 3 | He | 0.407 | ug/l | 1455.64 |
| Sb | 123 | 159 | 1 | NO GAS | 0.370 | ug/l | 7989.82 |
| Sb | 123 | 159 | 3 | He | 0.386 | ug/l | 1122.27 |
| Ba | 135 | 159 | 1 | NO GAS | 4.023 | ug/l | 22028.43 |
| Ba | 137 | 159 | 1 | NO GAS | 4.263 | ug/l | 40441.39 |
| La | 139 | 175 | 1 | NO GAS | 0.003 | ug/l | 367.05 |
| La | 139 | 175 | 3 | He | 0.006 | ug/l | 116.79 |
| Ce | 140 | 175 | 1 | NO GAS | 0.009 | ug/l | 880.93 |
| Ce | 140 | 175 | 3 | He | 0.007 | ug/l | 183.52 |
| Hg | 201 | 175 | 1 | NO GAS | 0.010 | ug/l | 64.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.083 | ug/l | 911.18 |
| Hg | 202 | 175 | 3 | He | 0.059 | ug/l | 416.92 |
| Tl | 203 | 175 | 3 | He | 0.017 | ug/l | 599.23 |
| Tl | 205 | 175 | 1 | NO GAS | 0.008 | ug/l | 2343.53 |
| Tl | 205 | 175 | 3 | He | 0.014 | ug/l | 1395.13 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.012 | ug/l | 338.90 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.012 | ug/l | 305.56 |
| Pb | 208 | 175 | 1 | NO GAS | 0.012 | ug/l | 1362.26 |
| Th | 232 | 175 | 3 | He | 0.077 | ug/l | 4979.85 |
| U | 238 | 175 | 1 | NO GAS | 0.078 | ug/l | 8420.72 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1867909.24 | 89.7 |
| Sc | 45 | 2 | H2 | 70450.09 | 77.6 |
| Sc | 45 | 3 | He | 47929.71 | 87.3 |
| Ge | 72 | 1 | NO GAS | 892562.48 | 99.6 |
| Ge | 72 | 2 | H2 | 112710.07 | 87.1 |
| Ge | 72 | 3 | He | 74836.84 | 88.8 |
| Tb | 159 | 1 | NO GAS | 20136181.93 | 100.1 |
| Tb | 159 | 3 | He | 7061610.84 | 96.1 |
| Ho | 165 | 1 | NO GAS | 19350126.53 | 103.1 |
| Ho | 165 | 3 | He | 6915627.26 | 95.5 |
| Lu | 175 | 1 | NO GAS | 21112510.31 | 105.5 |
| Lu | 175 | 3 | He | 4216036.20 | 95.6 |

ICPMS206-B Analytical Data

Sample Name B22010978-001A
File Name 146SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 08:54:34
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 2.160 | ug/l | 4113.01 |
| Be | 9 | 45 | 1 | NO GAS | 0.003 | ug/l | 3.00 |
| B | 11 | 45 | 1 | NO GAS | 90.260 | ug/l | 19818.61 |
| Na | 23 | 45 | 3 | He | 103133.304 | ug/l | 9603280.90 |
| Mg | 24 | 45 | 3 | He | 26729.064 | ug/l | 1299018.90 |
| Al | 27 | 45 | 1 | NO GAS | 1.240 | ug/l | 4550.64 |
| Si | 28 | 45 | 2 | H2 | 30163.972 | ug/l | 481656.55 |
| K | 39 | 72 | 3 | He | 6812.540 | ug/l | 330173.26 |
| Ca | 40 | 72 | 2 | H2 | 23556.407 | ug/l | 5298455.73 |
| Ti | 47 | 72 | 1 | NO GAS | 1.805 | ug/l | 1699.26 |
| V | 51 | 72 | 1 | NO GAS | 14.468 | ug/l | 188450.93 |
| V | 51 | 72 | 3 | He | 13.585 | ug/l | 19343.35 |
| Cr | 52 | 72 | 1 | NO GAS | 0.997 | ug/l | 28824.14 |
| Cr | 52 | 72 | 3 | He | 1.500 | ug/l | 2921.15 |
| Cr | 53 | 72 | 1 | NO GAS | -99.375 | ug/l | 25815.96 |
| Mn | 55 | 72 | 1 | NO GAS | 0.315 | ug/l | 7446.94 |
| Mn | 55 | 72 | 3 | He | 0.366 | ug/l | 340.70 |
| Fe | 56 | 72 | 2 | H2 | 0.822 | ug/l | 1386.05 |
| Fe | 56 | 72 | 3 | He | 0.690 | ug/l | 1740.91 |
| Co | 59 | 72 | 1 | NO GAS | 0.057 | ug/l | 1057.94 |
| Ni | 60 | 72 | 1 | NO GAS | 1.306 | ug/l | 4977.59 |
| Ni | 60 | 72 | 3 | He | 1.085 | ug/l | 1277.84 |
| Ni | 62 | 72 | 1 | NO GAS | 1.103 | ug/l | 1057.95 |
| Cu | 63 | 72 | 1 | NO GAS | 1.953 | ug/l | 19317.96 |
| Cu | 63 | 72 | 3 | He | 0.706 | ug/l | 2616.68 |
| Cu | 65 | 72 | 1 | NO GAS | 0.805 | ug/l | 4098.37 |
| Zn | 66 | 72 | 1 | NO GAS | 2.104 | ug/l | 7036.66 |
| Zn | 66 | 72 | 3 | He | 2.307 | ug/l | 1230.05 |
| As | 75 | 72 | 1 | NO GAS | 4.051 | ug/l | 17729.10 |
| As | 75 | 72 | 3 | He | 3.839 | ug/l | 1272.79 |
| Se | 78 | 72 | 2 | H2 | 0.707 | ug/l | 87.32 |
| Br | 79 | 72 | 1 | NO GAS | 38.481 | ug/l | 336452.13 |
| Br | 79 | 72 | 2 | H2 | 38.400 | ug/l | 51745.11 |
| Se | 82 | 72 | 1 | NO GAS | 3.058 | ug/l | 1078.64 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 74051.51 |
| Sr | 88 | 72 | 1 | NO GAS | 290.662 | ug/l | 11468578.76 |
| Sr | 88 | 72 | 3 | He | 296.816 | ug/l | 483079.69 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 11.383 | ug/l | 96376.02 |
| Mo | 95 | 72 | 3 | He | 12.162 | ug/l | 32714.77 |
| Mo | 98 | 72 | 1 | NO GAS | 11.399 | ug/l | 165002.13 |
| Ag | 107 | 72 | 1 | NO GAS | -0.076 | ug/l | 93.31 |
| Ag | 109 | 72 | 1 | NO GAS | -0.072 | ug/l | 107.98 |
| Cd | 111 | 159 | 1 | NO GAS | 0.001 | ug/l | 22.25 |
| Cd | 111 | 159 | 3 | He | 0.003 | ug/l | 8.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.018 | ug/l | 36.40 |
| Cd | 114 | 159 | 3 | He | 0.012 | ug/l | 17.16 |
| Sn | 118 | 159 | 1 | NO GAS | -2.222 | ug/l | 6332.08 |
| Sn | 118 | 159 | 3 | He | -2.310 | ug/l | 968.92 |
| Sb | 121 | 159 | 1 | NO GAS | 0.302 | ug/l | 8431.16 |
| Sb | 121 | 159 | 3 | He | 0.353 | ug/l | 1327.84 |
| Sb | 123 | 159 | 1 | NO GAS | 0.306 | ug/l | 6758.13 |
| Sb | 123 | 159 | 3 | He | 0.321 | ug/l | 981.15 |
| Ba | 135 | 159 | 1 | NO GAS | 26.560 | ug/l | 147204.45 |
| Ba | 137 | 159 | 1 | NO GAS | 25.849 | ug/l | 248598.61 |
| La | 139 | 175 | 1 | NO GAS | 0.001 | ug/l | 130.13 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 36.70 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 163.50 |
| Ce | 140 | 175 | 3 | He | 0.002 | ug/l | 56.72 |
| Hg | 201 | 175 | 1 | NO GAS | 0.086 | ug/l | 398.26 |
| Hg | 202 | 175 | 1 | NO GAS | 1.529 | ug/l | 15394.40 |
| Hg | 202 | 175 | 3 | He | 1.184 | ug/l | 7946.84 |
| Tl | 203 | 175 | 3 | He | 0.034 | ug/l | 869.19 |
| Tl | 205 | 175 | 1 | NO GAS | 0.019 | ug/l | 3094.78 |
| Tl | 205 | 175 | 3 | He | 0.027 | ug/l | 1899.08 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.011 | ug/l | 333.34 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.010 | ug/l | 266.67 |
| Pb | 208 | 175 | 1 | NO GAS | 0.011 | ug/l | 1278.92 |
| Th | 232 | 175 | 3 | He | 0.016 | ug/l | 2151.07 |
| U | 238 | 175 | 1 | NO GAS | 0.360 | ug/l | 38456.24 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2149323.31 | 103.2 |
| Sc | 45 | 2 | H2 | 94968.77 | 104.6 |
| Sc | 45 | 3 | He | 56355.98 | 102.6 |
| Ge | 72 | 1 | NO GAS | 931744.25 | 104.0 |
| Ge | 72 | 2 | H2 | 141324.00 | 109.2 |
| Ge | 72 | 3 | He | 88976.80 | 105.6 |
| Tb | 159 | 1 | NO GAS | 20258095.09 | 100.7 |
| Tb | 159 | 3 | He | 7365352.23 | 100.3 |
| Ho | 165 | 1 | NO GAS | 18887984.61 | 100.6 |
| Ho | 165 | 3 | He | 7208516.86 | 99.5 |
| Lu | 175 | 1 | NO GAS | 20930854.91 | 104.6 |
| Lu | 175 | 3 | He | 4387198.30 | 99.5 |

ICPMS206-B Analytical Data

Sample Name B22010978-001B
File Name 147SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 09:00:19
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | 2.100 | ug/l | 4139.68 |
| Be | 9 | 45 | 1 | NO GAS | 0.004 | ug/l | 3.00 |
| B | 11 | 45 | 1 | NO GAS | 92.543 | ug/l | 18632.88 |
| Na | 23 | 45 | 3 | He | 112262.439 | ug/l | 8980380.21 |
| Mg | 24 | 45 | 3 | He | 29486.635 | ug/l | 1231079.94 |
| Al | 27 | 45 | 1 | NO GAS | 5.302 | ug/l | 16129.87 |
| Si | 28 | 45 | 2 | H2 | 29101.736 | ug/l | 373038.67 |
| K | 39 | 72 | 3 | He | 6614.911 | ug/l | 284569.73 |
| Ca | 40 | 72 | 2 | H2 | 22379.016 | ug/l | 4273638.53 |
| Ti | 47 | 72 | 1 | NO GAS | 2.392 | ug/l | 2104.11 |
| V | 51 | 72 | 1 | NO GAS | 12.491 | ug/l | 150391.58 |
| V | 51 | 72 | 3 | He | 13.671 | ug/l | 17269.99 |
| Cr | 52 | 72 | 1 | NO GAS | 1.903 | ug/l | 38374.19 |
| Cr | 52 | 72 | 3 | He | 1.688 | ug/l | 2901.19 |
| Cr | 53 | 72 | 1 | NO GAS | 47.084 | ug/l | 170649.75 |
| Mn | 55 | 72 | 1 | NO GAS | 1.228 | ug/l | 24346.10 |
| Mn | 55 | 72 | 3 | He | 1.179 | ug/l | 956.12 |
| Fe | 56 | 72 | 2 | H2 | 6.066 | ug/l | 6909.70 |
| Fe | 56 | 72 | 3 | He | 6.507 | ug/l | 10261.45 |
| Co | 59 | 72 | 1 | NO GAS | 0.075 | ug/l | 1294.17 |
| Ni | 60 | 72 | 1 | NO GAS | 1.515 | ug/l | 5436.81 |
| Ni | 60 | 72 | 3 | He | 1.324 | ug/l | 1377.85 |
| Ni | 62 | 72 | 1 | NO GAS | 1.061 | ug/l | 971.44 |
| Cu | 63 | 72 | 1 | NO GAS | 2.360 | ug/l | 21883.89 |
| Cu | 63 | 72 | 3 | He | 0.975 | ug/l | 3143.00 |
| Cu | 65 | 72 | 1 | NO GAS | 1.066 | ug/l | 5031.76 |
| Zn | 66 | 72 | 1 | NO GAS | 1.542 | ug/l | 4943.98 |
| Zn | 66 | 72 | 3 | He | 1.396 | ug/l | 681.13 |
| As | 75 | 72 | 1 | NO GAS | 3.343 | ug/l | 14407.66 |
| As | 75 | 72 | 3 | He | 3.468 | ug/l | 1020.83 |
| Se | 78 | 72 | 2 | H2 | 0.703 | ug/l | 73.65 |
| Br | 79 | 72 | 1 | NO GAS | 5.389 | ug/l | 104390.40 |
| Br | 79 | 72 | 2 | H2 | 6.215 | ug/l | 15100.33 |
| Se | 82 | 72 | 1 | NO GAS | 1.458 | ug/l | 575.56 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 69438.10 |
| Sr | 88 | 72 | 1 | NO GAS | 302.269 | ug/l | 11228106.06 |
| Sr | 88 | 72 | 3 | He | 305.153 | ug/l | 440679.68 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Mo | 95 | 72 | 1 | NO GAS | 12.607 | ug/l | 100465.39 |
| Mo | 95 | 72 | 3 | He | 13.364 | ug/l | 31893.25 |
| Mo | 98 | 72 | 1 | NO GAS | 12.606 | ug/l | 171791.77 |
| Ag | 107 | 72 | 1 | NO GAS | -0.062 | ug/l | 402.59 |
| Ag | 109 | 72 | 1 | NO GAS | -0.059 | ug/l | 385.26 |
| Cd | 111 | 159 | 1 | NO GAS | -0.012 | ug/l | -59.50 |
| Cd | 111 | 159 | 3 | He | 0.003 | ug/l | 7.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.007 | ug/l | -115.68 |
| Cd | 114 | 159 | 3 | He | 0.011 | ug/l | 14.55 |
| Sn | 118 | 159 | 1 | NO GAS | -1.863 | ug/l | 12806.52 |
| Sn | 118 | 159 | 3 | He | -1.951 | ug/l | 1831.24 |
| Sb | 121 | 159 | 1 | NO GAS | 0.328 | ug/l | 9101.52 |
| Sb | 121 | 159 | 3 | He | 0.322 | ug/l | 1161.16 |
| Sb | 123 | 159 | 1 | NO GAS | 0.328 | ug/l | 7219.45 |
| Sb | 123 | 159 | 3 | He | 0.367 | ug/l | 1064.49 |
| Ba | 135 | 159 | 1 | NO GAS | 26.172 | ug/l | 145103.09 |
| Ba | 137 | 159 | 1 | NO GAS | 26.172 | ug/l | 251641.81 |
| La | 139 | 175 | 1 | NO GAS | 0.004 | ug/l | 397.08 |
| La | 139 | 175 | 3 | He | 0.003 | ug/l | 70.07 |
| Ce | 140 | 175 | 1 | NO GAS | 0.007 | ug/l | 647.35 |
| Ce | 140 | 175 | 3 | He | 0.007 | ug/l | 183.52 |
| Hg | 201 | 175 | 1 | NO GAS | 0.107 | ug/l | 492.58 |
| Hg | 202 | 175 | 1 | NO GAS | 1.890 | ug/l | 19235.65 |
| Hg | 202 | 175 | 3 | He | 1.394 | ug/l | 9099.25 |
| Tl | 203 | 175 | 3 | He | 0.009 | ug/l | 501.24 |
| Tl | 205 | 175 | 1 | NO GAS | -0.001 | ug/l | 1755.67 |
| Tl | 205 | 175 | 3 | He | 0.001 | ug/l | 1002.51 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.032 | ug/l | 818.92 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.030 | ug/l | 667.80 |
| Pb | 208 | 175 | 1 | NO GAS | 0.031 | ug/l | 3131.27 |
| Th | 232 | 175 | 3 | He | 0.039 | ug/l | 3223.72 |
| U | 238 | 175 | 1 | NO GAS | 0.375 | ug/l | 40554.04 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 1971890.14 | 94.7 |
| Sc | 45 | 2 | H2 | 76273.09 | 84.0 |
| Sc | 45 | 3 | He | 48399.37 | 88.1 |
| Ge | 72 | 1 | NO GAS | 877399.54 | 97.9 |
| Ge | 72 | 2 | H2 | 120022.74 | 92.7 |
| Ge | 72 | 3 | He | 78968.78 | 93.7 |
| Tb | 159 | 1 | NO GAS | 20256111.23 | 100.7 |
| Tb | 159 | 3 | He | 7025119.66 | 95.6 |
| Ho | 165 | 1 | NO GAS | 19233778.10 | 102.5 |
| Ho | 165 | 3 | He | 6909926.56 | 95.4 |
| Lu | 175 | 1 | NO GAS | 21183812.23 | 105.8 |
| Lu | 175 | 3 | He | 4268654.91 | 96.8 |

ICPMS206-B Analytical Data

Sample Name B22010979-001A
File Name 148SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 09:06:02
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -1.353 | ug/l | 1587.09 |
| Be | 9 | 45 | 1 | NO GAS | 0.009 | ug/l | 5.33 |
| B | 11 | 45 | 1 | NO GAS | 39.791 | ug/l | 9800.83 |
| Na | 23 | 45 | 3 | He | 39905.210 | ug/l | 4165230.56 |
| Mg | 24 | 45 | 3 | He | 16926.031 | ug/l | 920364.68 |
| Al | 27 | 45 | 1 | NO GAS | 58.399 | ug/l | 206835.10 |
| Si | 28 | 45 | 2 | H2 | 34940.827 | ug/l | 642428.42 |
| K | 39 | 72 | 3 | He | 4180.602 | ug/l | 221001.71 |
| Ca | 40 | 72 | 2 | H2 | 16510.084 | ug/l | 4116324.00 |
| Ti | 47 | 72 | 1 | NO GAS | 4.184 | ug/l | 4164.13 |
| V | 51 | 72 | 1 | NO GAS | 9.297 | ug/l | 120169.15 |
| V | 51 | 72 | 3 | He | 8.278 | ug/l | 12924.99 |
| Cr | 52 | 72 | 1 | NO GAS | 0.555 | ug/l | 24609.26 |
| Cr | 52 | 72 | 3 | He | 1.078 | ug/l | 2318.92 |
| Cr | 53 | 72 | 1 | NO GAS | -99.741 | ug/l | 27226.14 |
| Mn | 55 | 72 | 1 | NO GAS | 19.619 | ug/l | 424496.30 |
| Mn | 55 | 72 | 3 | He | 20.132 | ug/l | 19774.46 |
| Fe | 56 | 72 | 2 | H2 | 22.577 | ug/l | 32559.43 |
| Fe | 56 | 72 | 3 | He | 22.865 | ug/l | 42472.65 |
| Co | 59 | 72 | 1 | NO GAS | 0.204 | ug/l | 3879.46 |
| Ni | 60 | 72 | 1 | NO GAS | 1.398 | ug/l | 5693.15 |
| Ni | 60 | 72 | 3 | He | 1.358 | ug/l | 1727.88 |
| Ni | 62 | 72 | 1 | NO GAS | 1.323 | ug/l | 1270.87 |
| Cu | 63 | 72 | 1 | NO GAS | 1.611 | ug/l | 17146.66 |
| Cu | 63 | 72 | 3 | He | 1.180 | ug/l | 4601.71 |
| Cu | 65 | 72 | 1 | NO GAS | 1.238 | ug/l | 6602.00 |
| Zn | 66 | 72 | 1 | NO GAS | 3.024 | ug/l | 10662.28 |
| Zn | 66 | 72 | 3 | He | 2.956 | ug/l | 1690.10 |
| As | 75 | 72 | 1 | NO GAS | 0.131 | ug/l | 4516.16 |
| As | 75 | 72 | 3 | He | 0.137 | ug/l | 56.32 |
| Se | 78 | 72 | 2 | H2 | 0.333 | ug/l | 47.66 |
| Br | 79 | 72 | 1 | NO GAS | 6.278 | ug/l | 125143.58 |
| Br | 79 | 72 | 2 | H2 | 6.731 | ug/l | 20299.00 |
| Se | 82 | 72 | 1 | NO GAS | 0.965 | ug/l | 499.72 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 53206.85 |
| Sr | 88 | 72 | 1 | NO GAS | 187.131 | ug/l | 7901080.59 |
| Sr | 88 | 72 | 3 | He | 195.630 | ug/l | 345451.00 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.514 | ug/l | 4748.51 |
| Mo | 95 | 72 | 3 | He | 0.528 | ug/l | 1583.42 |
| Mo | 98 | 72 | 1 | NO GAS | 0.524 | ug/l | 8285.00 |
| Ag | 107 | 72 | 1 | NO GAS | -0.069 | ug/l | 267.95 |
| Ag | 109 | 72 | 1 | NO GAS | -0.066 | ug/l | 259.95 |
| Cd | 111 | 159 | 1 | NO GAS | 0.005 | ug/l | 42.46 |
| Cd | 111 | 159 | 3 | He | 0.003 | ug/l | 8.00 |
| Cd | 114 | 159 | 1 | NO GAS | 0.018 | ug/l | 45.73 |
| Cd | 114 | 159 | 3 | He | 0.013 | ug/l | 22.38 |
| Sn | 118 | 159 | 1 | NO GAS | -2.417 | ug/l | 2801.39 |
| Sn | 118 | 159 | 3 | He | -2.519 | ug/l | 430.01 |
| Sb | 121 | 159 | 1 | NO GAS | 0.069 | ug/l | 2352.42 |
| Sb | 121 | 159 | 3 | He | 0.075 | ug/l | 353.34 |
| Sb | 123 | 159 | 1 | NO GAS | 0.066 | ug/l | 1783.45 |
| Sb | 123 | 159 | 3 | He | 0.081 | ug/l | 293.34 |
| Ba | 135 | 159 | 1 | NO GAS | 6.115 | ug/l | 33608.93 |
| Ba | 137 | 159 | 1 | NO GAS | 6.268 | ug/l | 59747.29 |
| La | 139 | 175 | 1 | NO GAS | 0.055 | ug/l | 4738.92 |
| La | 139 | 175 | 3 | He | 0.056 | ug/l | 1117.86 |
| Ce | 140 | 175 | 1 | NO GAS | 0.119 | ug/l | 10198.46 |
| Ce | 140 | 175 | 3 | He | 0.106 | ug/l | 2689.65 |
| Hg | 201 | 175 | 1 | NO GAS | -0.001 | ug/l | 19.67 |
| Hg | 202 | 175 | 1 | NO GAS | 0.001 | ug/l | 88.98 |
| Hg | 202 | 175 | 3 | He | 0.002 | ug/l | 48.99 |
| Tl | 203 | 175 | 3 | He | 0.016 | ug/l | 637.22 |
| Tl | 205 | 175 | 1 | NO GAS | 0.011 | ug/l | 2476.89 |
| Tl | 205 | 175 | 3 | He | 0.017 | ug/l | 1637.77 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.042 | ug/l | 1008.93 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.037 | ug/l | 778.92 |
| Pb | 208 | 175 | 1 | NO GAS | 0.039 | ug/l | 3805.78 |
| Th | 232 | 175 | 3 | He | -0.019 | ug/l | 411.26 |
| U | 238 | 175 | 1 | NO GAS | 0.014 | ug/l | 1641.77 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2363551.40 | 113.5 |
| Sc | 45 | 2 | H2 | 109414.06 | 120.5 |
| Sc | 45 | 3 | He | 63049.17 | 114.8 |
| Ge | 72 | 1 | NO GAS | 997322.24 | 111.3 |
| Ge | 72 | 2 | H2 | 156597.28 | 120.9 |
| Ge | 72 | 3 | He | 96526.32 | 114.5 |
| Tb | 159 | 1 | NO GAS | 20070476.44 | 99.7 |
| Tb | 159 | 3 | He | 7601288.11 | 103.5 |
| Ho | 165 | 1 | NO GAS | 19082899.10 | 101.7 |
| Ho | 165 | 3 | He | 7383149.19 | 102.0 |
| Lu | 175 | 1 | NO GAS | 20389191.60 | 101.9 |
| Lu | 175 | 3 | He | 4574200.08 | 103.7 |

ICPMS206-B Analytical Data

Sample Name B22010979-001B
File Name 149SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 09:11:45
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | -1.175 | ug/l | 1800.41 |
| Be | 9 | 45 | 1 | NO GAS | -0.001 | ug/l | 1.67 |
| B | 11 | 45 | 1 | NO GAS | 41.746 | ug/l | 8855.17 |
| Na | 23 | 45 | 3 | He | 42095.798 | ug/l | 3543579.81 |
| Mg | 24 | 45 | 3 | He | 17413.817 | ug/l | 764021.17 |
| Al | 27 | 45 | 1 | NO GAS | 23.965 | ug/l | 73475.35 |
| Si | 28 | 45 | 2 | H2 | 35292.867 | ug/l | 464647.84 |
| K | 39 | 72 | 3 | He | 3995.530 | ug/l | 175139.06 |
| Ca | 40 | 72 | 2 | H2 | 15296.114 | ug/l | 2994668.16 |
| Ti | 47 | 72 | 1 | NO GAS | 3.514 | ug/l | 3235.40 |
| V | 51 | 72 | 1 | NO GAS | 6.722 | ug/l | 73594.09 |
| V | 51 | 72 | 3 | He | 8.106 | ug/l | 10494.44 |
| Cr | 52 | 72 | 1 | NO GAS | 1.381 | ug/l | 33540.14 |
| Cr | 52 | 72 | 3 | He | 1.181 | ug/l | 2092.67 |
| Cr | 53 | 72 | 1 | NO GAS | 54.943 | ug/l | 187807.16 |
| Mn | 55 | 72 | 1 | NO GAS | 9.029 | ug/l | 181234.14 |
| Mn | 55 | 72 | 3 | He | 9.943 | ug/l | 8096.75 |
| Fe | 56 | 72 | 2 | H2 | 15.636 | ug/l | 17797.29 |
| Fe | 56 | 72 | 3 | He | 17.125 | ug/l | 26487.68 |
| Co | 59 | 72 | 1 | NO GAS | 0.080 | ug/l | 1443.87 |
| Ni | 60 | 72 | 1 | NO GAS | 1.321 | ug/l | 4977.58 |
| Ni | 60 | 72 | 3 | He | 1.187 | ug/l | 1253.39 |
| Ni | 62 | 72 | 1 | NO GAS | 1.128 | ug/l | 1061.27 |
| Cu | 63 | 72 | 1 | NO GAS | 1.298 | ug/l | 12866.38 |
| Cu | 63 | 72 | 3 | He | 0.773 | ug/l | 2560.35 |
| Cu | 65 | 72 | 1 | NO GAS | 0.855 | ug/l | 4293.70 |
| Zn | 66 | 72 | 1 | NO GAS | 3.371 | ug/l | 10954.99 |
| Zn | 66 | 72 | 3 | He | 3.482 | ug/l | 1640.10 |
| As | 75 | 72 | 1 | NO GAS | 0.023 | ug/l | 3807.26 |
| As | 75 | 72 | 3 | He | 0.147 | ug/l | 49.66 |
| Se | 78 | 72 | 2 | H2 | 0.274 | ug/l | 31.33 |
| Br | 79 | 72 | 1 | NO GAS | 1.104 | ug/l | 80822.12 |
| Br | 79 | 72 | 2 | H2 | 1.468 | ug/l | 11105.11 |
| Se | 82 | 72 | 1 | NO GAS | 1.601 | ug/l | 646.12 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 49376.16 |
| Sr | 88 | 72 | 1 | NO GAS | 187.119 | ug/l | 7307771.73 |
| Sr | 88 | 72 | 3 | He | 194.074 | ug/l | 283905.09 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 1.810 | ug/l | 15243.84 |
| Mo | 95 | 72 | 3 | He | 1.997 | ug/l | 4858.54 |
| Mo | 98 | 72 | 1 | NO GAS | 1.837 | ug/l | 26450.46 |
| Ag | 107 | 72 | 1 | NO GAS | -0.070 | ug/l | 235.96 |
| Ag | 109 | 72 | 1 | NO GAS | -0.066 | ug/l | 247.95 |
| Cd | 111 | 159 | 1 | NO GAS | -0.003 | ug/l | -7.09 |
| Cd | 111 | 159 | 3 | He | 0.006 | ug/l | 11.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.016 | ug/l | 19.93 |
| Cd | 114 | 159 | 3 | He | 0.013 | ug/l | 22.86 |
| Sn | 118 | 159 | 1 | NO GAS | -2.117 | ug/l | 8538.77 |
| Sn | 118 | 159 | 3 | He | -2.220 | ug/l | 1202.27 |
| Sb | 121 | 159 | 1 | NO GAS | 0.075 | ug/l | 2606.90 |
| Sb | 121 | 159 | 3 | He | 0.094 | ug/l | 406.67 |
| Sb | 123 | 159 | 1 | NO GAS | 0.078 | ug/l | 2136.82 |
| Sb | 123 | 159 | 3 | He | 0.098 | ug/l | 332.23 |
| Ba | 135 | 159 | 1 | NO GAS | 4.762 | ug/l | 27386.06 |
| Ba | 137 | 159 | 1 | NO GAS | 4.623 | ug/l | 46125.48 |
| La | 139 | 175 | 1 | NO GAS | 0.008 | ug/l | 767.47 |
| La | 139 | 175 | 3 | He | 0.007 | ug/l | 146.82 |
| Ce | 140 | 175 | 1 | NO GAS | 0.015 | ug/l | 1444.90 |
| Ce | 140 | 175 | 3 | He | 0.016 | ug/l | 390.41 |
| Hg | 201 | 175 | 1 | NO GAS | 0.003 | ug/l | 37.32 |
| Hg | 202 | 175 | 1 | NO GAS | 0.009 | ug/l | 180.97 |
| Hg | 202 | 175 | 3 | He | 0.009 | ug/l | 94.65 |
| Tl | 203 | 175 | 3 | He | -0.002 | ug/l | 361.94 |
| Tl | 205 | 175 | 1 | NO GAS | -0.005 | ug/l | 1474.53 |
| Tl | 205 | 175 | 3 | He | -0.005 | ug/l | 828.53 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.021 | ug/l | 574.46 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.023 | ug/l | 535.57 |
| Pb | 208 | 175 | 1 | NO GAS | 0.022 | ug/l | 2372.31 |
| Th | 232 | 175 | 3 | He | 0.020 | ug/l | 2359.73 |
| U | 238 | 175 | 1 | NO GAS | 0.012 | ug/l | 1478.12 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2038787.30 | 97.9 |
| Sc | 45 | 2 | H2 | 78375.93 | 86.3 |
| Sc | 45 | 3 | He | 50906.14 | 92.7 |
| Ge | 72 | 1 | NO GAS | 922326.28 | 103.0 |
| Ge | 72 | 2 | H2 | 122902.04 | 94.9 |
| Ge | 72 | 3 | He | 79965.61 | 94.9 |
| Tb | 159 | 1 | NO GAS | 20997072.58 | 104.3 |
| Tb | 159 | 3 | He | 7330605.40 | 99.8 |
| Ho | 165 | 1 | NO GAS | 20004743.00 | 106.6 |
| Ho | 165 | 3 | He | 7093581.35 | 98.0 |
| Lu | 175 | 1 | NO GAS | 21538224.55 | 107.6 |
| Lu | 175 | 3 | He | 4389779.21 | 99.5 |

ICPMS206-B Analytical Data

Sample Name B22010980-001A
File Name 150SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 09:17:28
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | -1.510 | ug/l | 1472.44 |
| Be | 9 | 45 | 1 | NO GAS | 0.001 | ug/l | 2.67 |
| B | 11 | 45 | 1 | NO GAS | 72.828 | ug/l | 18664.93 |
| Na | 23 | 45 | 3 | He | 94472.564 | ug/l | 10159030.41 |
| Mg | 24 | 45 | 3 | He | 36939.437 | ug/l | 2071223.21 |
| Al | 27 | 45 | 1 | NO GAS | 3.276 | ug/l | 12888.27 |
| Si | 28 | 45 | 2 | H2 | 30139.599 | ug/l | 563239.23 |
| K | 39 | 72 | 3 | He | 3086.086 | ug/l | 167034.10 |
| Ca | 40 | 72 | 2 | H2 | 40828.366 | ug/l | 10269802.29 |
| Ti | 47 | 72 | 1 | NO GAS | 1.911 | ug/l | 1909.18 |
| V | 51 | 72 | 1 | NO GAS | 15.788 | ug/l | 221098.26 |
| V | 51 | 72 | 3 | He | 14.507 | ug/l | 22793.15 |
| Cr | 52 | 72 | 1 | NO GAS | 0.115 | ug/l | 18303.70 |
| Cr | 52 | 72 | 3 | He | 0.599 | ug/l | 1380.67 |
| Cr | 53 | 72 | 1 | NO GAS | -97.621 | ug/l | 29455.41 |
| Mn | 55 | 72 | 1 | NO GAS | 5.412 | ug/l | 117200.31 |
| Mn | 55 | 72 | 3 | He | 5.663 | ug/l | 5673.52 |
| Fe | 56 | 72 | 2 | H2 | 12.159 | ug/l | 17895.72 |
| Fe | 56 | 72 | 3 | He | 12.641 | ug/l | 24207.04 |
| Co | 59 | 72 | 1 | NO GAS | 0.121 | ug/l | 2312.26 |
| Ni | 60 | 72 | 1 | NO GAS | 0.963 | ug/l | 3906.10 |
| Ni | 60 | 72 | 3 | He | 0.530 | ug/l | 708.91 |
| Ni | 62 | 72 | 1 | NO GAS | 0.471 | ug/l | 728.58 |
| Cu | 63 | 72 | 1 | NO GAS | 2.233 | ug/l | 23418.29 |
| Cu | 63 | 72 | 3 | He | 0.988 | ug/l | 3958.68 |
| Cu | 65 | 72 | 1 | NO GAS | 1.194 | ug/l | 6337.29 |
| Zn | 66 | 72 | 1 | NO GAS | 2.364 | ug/l | 8363.91 |
| Zn | 66 | 72 | 3 | He | 2.460 | ug/l | 1444.52 |
| As | 75 | 72 | 1 | NO GAS | 2.342 | ug/l | 12588.62 |
| As | 75 | 72 | 3 | He | 2.028 | ug/l | 746.20 |
| Se | 78 | 72 | 2 | H2 | 0.474 | ug/l | 66.65 |
| Br | 79 | 72 | 1 | NO GAS | 67.083 | ug/l | 565332.37 |
| Br | 79 | 72 | 2 | H2 | 66.788 | ug/l | 91353.30 |
| Se | 82 | 72 | 1 | NO GAS | 3.216 | ug/l | 1191.78 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 80561.41 |
| Sr | 88 | 72 | 1 | NO GAS | 300.717 | ug/l | 12616912.96 |
| Sr | 88 | 72 | 3 | He | 304.799 | ug/l | 547943.56 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 3.798 | ug/l | 34259.05 |
| Mo | 95 | 72 | 3 | He | 3.974 | ug/l | 11833.24 |
| Mo | 98 | 72 | 1 | NO GAS | 3.749 | ug/l | 57828.17 |
| Ag | 107 | 72 | 1 | NO GAS | -0.069 | ug/l | 265.95 |
| Ag | 109 | 72 | 1 | NO GAS | -0.067 | ug/l | 227.29 |
| Cd | 111 | 159 | 1 | NO GAS | 0.003 | ug/l | 33.26 |
| Cd | 111 | 159 | 3 | He | 0.006 | ug/l | 12.67 |
| Cd | 114 | 159 | 1 | NO GAS | 0.020 | ug/l | 64.12 |
| Cd | 114 | 159 | 3 | He | 0.013 | ug/l | 21.28 |
| Sn | 118 | 159 | 1 | NO GAS | -2.454 | ug/l | 2179.17 |
| Sn | 118 | 159 | 3 | He | -2.541 | ug/l | 372.23 |
| Sb | 121 | 159 | 1 | NO GAS | 0.054 | ug/l | 2011.26 |
| Sb | 121 | 159 | 3 | He | 0.058 | ug/l | 293.34 |
| Sb | 123 | 159 | 1 | NO GAS | 0.055 | ug/l | 1603.43 |
| Sb | 123 | 159 | 3 | He | 0.068 | ug/l | 257.78 |
| Ba | 135 | 159 | 1 | NO GAS | 9.943 | ug/l | 55913.43 |
| Ba | 137 | 159 | 1 | NO GAS | 9.896 | ug/l | 96543.13 |
| La | 139 | 175 | 1 | NO GAS | 0.000 | ug/l | 93.43 |
| La | 139 | 175 | 3 | He | 0.001 | ug/l | 33.37 |
| Ce | 140 | 175 | 1 | NO GAS | 0.001 | ug/l | 160.17 |
| Ce | 140 | 175 | 3 | He | 0.001 | ug/l | 46.71 |
| Hg | 201 | 175 | 1 | NO GAS | 0.162 | ug/l | 722.54 |
| Hg | 202 | 175 | 1 | NO GAS | 2.999 | ug/l | 29889.28 |
| Hg | 202 | 175 | 3 | He | 2.283 | ug/l | 16298.46 |
| Tl | 203 | 175 | 3 | He | 0.019 | ug/l | 691.21 |
| Tl | 205 | 175 | 1 | NO GAS | 0.001 | ug/l | 1843.47 |
| Tl | 205 | 175 | 3 | He | 0.003 | ug/l | 1161.82 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.005 | ug/l | 181.12 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.004 | ug/l | 142.22 |
| Pb | 208 | 175 | 1 | NO GAS | 0.005 | ug/l | 691.12 |
| Th | 232 | 175 | 3 | He | -0.020 | ug/l | 393.26 |
| U | 238 | 175 | 1 | NO GAS | 0.193 | ug/l | 20579.78 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2497794.47 | 120.0 |
| Sc | 45 | 2 | H2 | 111197.36 | 122.4 |
| Sc | 45 | 3 | He | 65039.38 | 118.4 |
| Ge | 72 | 1 | NO GAS | 991053.59 | 110.6 |
| Ge | 72 | 2 | H2 | 158095.19 | 122.1 |
| Ge | 72 | 3 | He | 98292.90 | 116.6 |
| Tb | 159 | 1 | NO GAS | 20543957.61 | 102.1 |
| Tb | 159 | 3 | He | 7684030.90 | 104.6 |
| Ho | 165 | 1 | NO GAS | 19071160.28 | 101.6 |
| Ho | 165 | 3 | He | 7602081.29 | 105.0 |
| Lu | 175 | 1 | NO GAS | 20813106.12 | 104.0 |
| Lu | 175 | 3 | He | 4676132.48 | 106.0 |

ICPMS206-B Analytical Data

Sample Name B22010980-001B
File Name 151SMPL.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 09:23:10
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 165 | 1 | NO GAS | -0.958 | ug/l | 1793.74 |
| Be | 9 | 45 | 1 | NO GAS | 0.018 | ug/l | 7.33 |
| B | 11 | 45 | 1 | NO GAS | 90.858 | ug/l | 18512.14 |
| Na | 23 | 45 | 3 | He | 97614.968 | ug/l | 9196378.82 |
| Mg | 24 | 45 | 3 | He | 38554.810 | ug/l | 1894652.32 |
| Al | 27 | 45 | 1 | NO GAS | 37.695 | ug/l | 113824.87 |
| Si | 28 | 45 | 2 | H2 | 29486.224 | ug/l | 437862.54 |
| K | 39 | 72 | 3 | He | 3082.712 | ug/l | 144763.86 |
| Ca | 40 | 72 | 2 | H2 | 38911.559 | ug/l | 8118705.60 |
| Ti | 47 | 72 | 1 | NO GAS | 4.986 | ug/l | 4418.48 |
| V | 51 | 72 | 1 | NO GAS | 13.714 | ug/l | 169905.24 |
| V | 51 | 72 | 3 | He | 15.437 | ug/l | 21027.56 |
| Cr | 52 | 72 | 1 | NO GAS | 1.949 | ug/l | 39450.23 |
| Cr | 52 | 72 | 3 | He | 1.488 | ug/l | 2778.08 |
| Cr | 53 | 72 | 1 | NO GAS | 67.510 | ug/l | 193823.47 |
| Mn | 55 | 72 | 1 | NO GAS | 6.994 | ug/l | 136427.57 |
| Mn | 55 | 72 | 3 | He | 7.486 | ug/l | 6503.24 |
| Fe | 56 | 72 | 2 | H2 | 187.745 | ug/l | 224176.77 |
| Fe | 56 | 72 | 3 | He | 205.099 | ug/l | 332376.38 |
| Co | 59 | 72 | 1 | NO GAS | 0.172 | ug/l | 2924.50 |
| Ni | 60 | 72 | 1 | NO GAS | 1.424 | ug/l | 5077.59 |
| Ni | 60 | 72 | 3 | He | 0.663 | ug/l | 762.25 |
| Ni | 62 | 72 | 1 | NO GAS | 0.715 | ug/l | 778.49 |
| Cu | 63 | 72 | 1 | NO GAS | 3.894 | ug/l | 36440.38 |
| Cu | 63 | 72 | 3 | He | 2.473 | ug/l | 8320.06 |
| Cu | 65 | 72 | 1 | NO GAS | 2.727 | ug/l | 12741.15 |
| Zn | 66 | 72 | 1 | NO GAS | 53.411 | ug/l | 146100.70 |
| Zn | 66 | 72 | 3 | He | 3.977 | ug/l | 1989.04 |
| As | 75 | 72 | 1 | NO GAS | 1.725 | ug/l | 9342.68 |
| As | 75 | 72 | 3 | He | 2.094 | ug/l | 668.55 |
| Se | 78 | 72 | 2 | H2 | 0.392 | ug/l | 45.99 |
| Br | 79 | 72 | 1 | NO GAS | 11.247 | ug/l | 144196.20 |
| Br | 79 | 72 | 2 | H2 | 11.009 | ug/l | 21115.19 |
| Se | 82 | 72 | 1 | NO GAS | 1.349 | ug/l | 543.63 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 75512.22 |
| Sr | 88 | 72 | 1 | NO GAS | 314.205 | ug/l | 11882329.08 |
| Sr | 88 | 72 | 3 | He | 328.366 | ug/l | 512280.65 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 4.412 | ug/l | 35866.89 |
| Mo | 95 | 72 | 3 | He | 4.929 | ug/l | 12731.65 |
| Mo | 98 | 72 | 1 | NO GAS | 4.456 | ug/l | 61981.44 |
| Ag | 107 | 72 | 1 | NO GAS | -0.049 | ug/l | 696.55 |
| Ag | 109 | 72 | 1 | NO GAS | -0.048 | ug/l | 633.23 |
| Cd | 111 | 159 | 1 | NO GAS | 0.001 | ug/l | 15.66 |
| Cd | 111 | 159 | 3 | He | 0.001 | ug/l | 5.33 |
| Cd | 114 | 159 | 1 | NO GAS | 0.007 | ug/l | -114.94 |
| Cd | 114 | 159 | 3 | He | 0.012 | ug/l | 19.88 |
| Sn | 118 | 159 | 1 | NO GAS | -1.917 | ug/l | 10895.76 |
| Sn | 118 | 159 | 3 | He | -2.151 | ug/l | 1386.74 |
| Sb | 121 | 159 | 1 | NO GAS | 0.077 | ug/l | 2420.20 |
| Sb | 121 | 159 | 3 | He | 0.081 | ug/l | 363.34 |
| Sb | 123 | 159 | 1 | NO GAS | 0.087 | ug/l | 2126.83 |
| Sb | 123 | 159 | 3 | He | 0.101 | ug/l | 340.00 |
| Ba | 135 | 159 | 1 | NO GAS | 10.447 | ug/l | 54474.56 |
| Ba | 137 | 159 | 1 | NO GAS | 10.345 | ug/l | 93821.93 |
| La | 139 | 175 | 1 | NO GAS | 0.020 | ug/l | 1711.86 |
| La | 139 | 175 | 3 | He | 0.021 | ug/l | 400.42 |
| Ce | 140 | 175 | 1 | NO GAS | 0.050 | ug/l | 4178.20 |
| Ce | 140 | 175 | 3 | He | 0.055 | ug/l | 1328.09 |
| Hg | 201 | 175 | 1 | NO GAS | 0.216 | ug/l | 901.85 |
| Hg | 202 | 175 | 1 | NO GAS | 3.823 | ug/l | 35933.11 |
| Hg | 202 | 175 | 3 | He | 2.553 | ug/l | 16995.77 |
| Tl | 203 | 175 | 3 | He | 0.013 | ug/l | 569.23 |
| Tl | 205 | 175 | 1 | NO GAS | -0.006 | ug/l | 1258.95 |
| Tl | 205 | 175 | 3 | He | -0.002 | ug/l | 912.52 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.054 | ug/l | 1224.51 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.050 | ug/l | 988.93 |
| Pb | 208 | 175 | 1 | NO GAS | 0.052 | ug/l | 4619.24 |
| Th | 232 | 175 | 3 | He | 0.014 | ug/l | 2046.41 |
| U | 238 | 175 | 1 | NO GAS | 0.205 | ug/l | 20703.25 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2049283.84 | 98.4 |
| Sc | 45 | 2 | H2 | 88305.32 | 97.2 |
| Sc | 45 | 3 | He | 56986.72 | 103.8 |
| Ge | 72 | 1 | NO GAS | 894246.95 | 99.8 |
| Ge | 72 | 2 | H2 | 130760.13 | 101.0 |
| Ge | 72 | 3 | He | 85300.51 | 101.2 |
| Tb | 159 | 1 | NO GAS | 19159434.38 | 95.2 |
| Tb | 159 | 3 | He | 7343468.63 | 100.0 |
| Ho | 165 | 1 | NO GAS | 18342721.35 | 97.7 |
| Ho | 165 | 3 | He | 7105510.84 | 98.1 |
| Lu | 175 | 1 | NO GAS | 19762342.90 | 98.7 |
| Lu | 175 | 3 | He | 4363576.13 | 98.9 |

ICPMS206-B Analytical Data

Sample Name CCV
File Name 152_CCV.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 09:28:53
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|------------|
| Li | 7 | 165 | 1 | NO GAS | 449.634 | ug/l | 341574.97 |
| Be | 9 | 45 | 1 | NO GAS | 46.423 | ug/l | 15533.42 |
| B | 11 | 45 | 1 | NO GAS | 47.707 | ug/l | 11862.36 |
| Na | 23 | 45 | 3 | He | 13178.430 | ug/l | 1402622.17 |
| Mg | 24 | 45 | 3 | He | 12286.470 | ug/l | 677937.94 |
| Al | 27 | 45 | 1 | NO GAS | 48.060 | ug/l | 172877.48 |
| Si | 28 | 45 | 2 | H2 | 261.677 | ug/l | 6313.92 |
| K | 39 | 72 | 3 | He | 11463.002 | ug/l | 603557.21 |
| Ca | 40 | 72 | 2 | H2 | 12828.296 | ug/l | 3152643.16 |
| Ti | 47 | 72 | 1 | NO GAS | 47.639 | ug/l | 47412.49 |
| V | 51 | 72 | 1 | NO GAS | 49.529 | ug/l | 762207.80 |
| V | 51 | 72 | 3 | He | 49.678 | ug/l | 76154.25 |
| Cr | 52 | 72 | 1 | NO GAS | 47.584 | ug/l | 695376.71 |
| Cr | 52 | 72 | 3 | He | 50.705 | ug/l | 102658.89 |
| Cr | 53 | 72 | 1 | NO GAS | 51.308 | ug/l | 201154.12 |
| Mn | 55 | 72 | 1 | NO GAS | 47.477 | ug/l | 1037054.04 |
| Mn | 55 | 72 | 3 | He | 50.154 | ug/l | 49510.98 |
| Fe | 56 | 72 | 2 | H2 | 1310.371 | ug/l | 1845954.28 |
| Fe | 56 | 72 | 3 | He | 1302.677 | ug/l | 2397437.63 |
| Co | 59 | 72 | 1 | NO GAS | 47.750 | ug/l | 902287.81 |
| Ni | 60 | 72 | 1 | NO GAS | 49.088 | ug/l | 201594.31 |
| Ni | 60 | 72 | 3 | He | 51.733 | ug/l | 64711.26 |
| Ni | 62 | 72 | 1 | NO GAS | 48.884 | ug/l | 31577.17 |
| Cu | 63 | 72 | 1 | NO GAS | 49.897 | ug/l | 521230.87 |
| Cu | 63 | 72 | 3 | He | 51.060 | ug/l | 191361.38 |
| Cu | 65 | 72 | 1 | NO GAS | 49.383 | ug/l | 255960.11 |
| Zn | 66 | 72 | 1 | NO GAS | 48.214 | ug/l | 166457.04 |
| Zn | 66 | 72 | 3 | He | 50.454 | ug/l | 27947.72 |
| As | 75 | 72 | 1 | NO GAS | 47.678 | ug/l | 181824.89 |
| As | 75 | 72 | 3 | He | 50.835 | ug/l | 18291.65 |
| Se | 78 | 72 | 2 | H2 | 53.081 | ug/l | 6859.72 |
| Br | 79 | 72 | 1 | NO GAS | 1.307 | ug/l | 89860.34 |
| Br | 79 | 72 | 2 | H2 | 1.828 | ug/l | 14371.17 |
| Se | 82 | 72 | 1 | NO GAS | 49.462 | ug/l | 15768.38 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 20565.35 |
| Sr | 88 | 72 | 1 | NO GAS | 49.262 | ug/l | 2103785.50 |
| Sr | 88 | 72 | 3 | He | 50.768 | ug/l | 90311.79 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Mo | 95 | 72 | 1 | NO GAS | 48.799 | ug/l | 446717.93 |
| Mo | 95 | 72 | 3 | He | 50.818 | ug/l | 148910.87 |
| Mo | 98 | 72 | 1 | NO GAS | 48.626 | ug/l | 761213.35 |
| Ag | 107 | 72 | 1 | NO GAS | 19.863 | ug/l | 516932.53 |
| Ag | 109 | 72 | 1 | NO GAS | 19.620 | ug/l | 502705.30 |
| Cd | 111 | 159 | 1 | NO GAS | 48.592 | ug/l | 309304.71 |
| Cd | 111 | 159 | 3 | He | 49.772 | ug/l | 74977.40 |
| Cd | 114 | 159 | 1 | NO GAS | 48.715 | ug/l | 719200.48 |
| Cd | 114 | 159 | 3 | He | 48.910 | ug/l | 192030.62 |
| Sn | 118 | 159 | 1 | NO GAS | 46.631 | ug/l | 913323.39 |
| Sn | 118 | 159 | 3 | He | 47.990 | ug/l | 139640.13 |
| Sb | 121 | 159 | 1 | NO GAS | 46.182 | ug/l | 1236207.77 |
| Sb | 121 | 159 | 3 | He | 48.722 | ug/l | 180374.98 |
| Sb | 123 | 159 | 1 | NO GAS | 45.656 | ug/l | 970129.20 |
| Sb | 123 | 159 | 3 | He | 48.528 | ug/l | 146598.18 |
| Ba | 135 | 159 | 1 | NO GAS | 47.963 | ug/l | 273518.50 |
| Ba | 137 | 159 | 1 | NO GAS | 47.675 | ug/l | 471660.79 |
| La | 139 | 175 | 1 | NO GAS | 49.256 | ug/l | 4477306.68 |
| La | 139 | 175 | 3 | He | 47.760 | ug/l | 952242.23 |
| Ce | 140 | 175 | 1 | NO GAS | 47.981 | ug/l | 4327300.48 |
| Ce | 140 | 175 | 3 | He | 47.596 | ug/l | 1203329.31 |
| Hg | 201 | 175 | 1 | NO GAS | 0.972 | ug/l | 4396.76 |
| Hg | 202 | 175 | 1 | NO GAS | 0.932 | ug/l | 9728.83 |
| Hg | 202 | 175 | 3 | He | 0.994 | ug/l | 6966.87 |
| Tl | 203 | 175 | 3 | He | 49.118 | ug/l | 715618.45 |
| Tl | 205 | 175 | 1 | NO GAS | 47.067 | ug/l | 3363683.14 |
| Tl | 205 | 175 | 3 | He | 50.188 | ug/l | 1792700.38 |
| [Pb] | 206 | 175 | 1 | NO GAS | 46.549 | ug/l | 1120802.36 |
| [Pb] | 207 | 175 | 1 | NO GAS | 45.979 | ug/l | 960047.99 |
| Pb | 208 | 175 | 1 | NO GAS | 46.668 | ug/l | 4459136.41 |
| Th | 232 | 175 | 3 | He | 50.417 | ug/l | 2627961.76 |
| U | 238 | 175 | 1 | NO GAS | 46.379 | ug/l | 5100248.03 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2399877.57 | 115.3 |
| Sc | 45 | 2 | H2 | 112321.34 | 123.7 |
| Sc | 45 | 3 | He | 63977.00 | 116.5 |
| Ge | 72 | 1 | NO GAS | 1008489.50 | 112.6 |
| Ge | 72 | 2 | H2 | 154445.08 | 119.3 |
| Ge | 72 | 3 | He | 97031.34 | 115.1 |
| Tb | 159 | 1 | NO GAS | 20838404.34 | 103.6 |
| Tb | 159 | 3 | He | 7661174.76 | 104.3 |
| Ho | 165 | 1 | NO GAS | 19700610.54 | 105.0 |
| Ho | 165 | 3 | He | 7286169.19 | 100.6 |
| Lu | 175 | 1 | NO GAS | 21629691.64 | 108.1 |
| Lu | 175 | 3 | He | 4579338.45 | 103.8 |

ICPMS206-B Analytical Data

Sample Name CCB
File Name 153_CCB.d
Data Path Name D:\Data\220118ADoD.b
Acq Time 2022-01-19 09:36:39
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
ISTD Ref FileName 100CALB.d
Operator SRH/AEM/JPV/CAR
Method EPA 6020/6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 165 | 1 | NO GAS | -1.346 | ug/l | 1628.42 |
| Be | 9 | 45 | 1 | NO GAS | 0.005 | ug/l | 4.00 |
| B | 11 | 45 | 1 | NO GAS | -0.092 | ug/l | 329.27 |
| Na | 23 | 45 | 3 | He | 17.547 | ug/l | 12184.34 |
| Mg | 24 | 45 | 3 | He | 3.667 | ug/l | 276.12 |
| Al | 27 | 45 | 1 | NO GAS | 0.056 | ug/l | 830.03 |
| Si | 28 | 45 | 2 | H2 | -28.931 | ug/l | 822.53 |
| K | 39 | 72 | 3 | He | 6.194 | ug/l | 3407.03 |
| Ca | 40 | 72 | 2 | H2 | 4.921 | ug/l | 1885.85 |
| Ti | 47 | 72 | 1 | NO GAS | 0.019 | ug/l | 61.64 |
| V | 51 | 72 | 1 | NO GAS | 0.977 | ug/l | -10829.01 |
| V | 51 | 72 | 3 | He | 0.017 | ug/l | 373.34 |
| Cr | 52 | 72 | 1 | NO GAS | 0.005 | ug/l | 16941.69 |
| Cr | 52 | 72 | 3 | He | 0.012 | ug/l | 169.67 |
| Cr | 53 | 72 | 1 | NO GAS | -4.113 | ug/l | 136511.01 |
| Mn | 55 | 72 | 1 | NO GAS | 0.018 | ug/l | 1573.63 |
| Mn | 55 | 72 | 3 | He | 0.006 | ug/l | 15.67 |
| Fe | 56 | 72 | 2 | H2 | 0.212 | ug/l | 659.69 |
| Fe | 56 | 72 | 3 | He | 0.252 | ug/l | 1041.19 |
| Co | 59 | 72 | 1 | NO GAS | 0.003 | ug/l | 129.74 |
| Ni | 60 | 72 | 1 | NO GAS | 0.014 | ug/l | 76.51 |
| Ni | 60 | 72 | 3 | He | -0.010 | ug/l | 23.33 |
| Ni | 62 | 72 | 1 | NO GAS | -0.114 | ug/l | 365.95 |
| Cu | 63 | 72 | 1 | NO GAS | 0.077 | ug/l | 1325.80 |
| Cu | 63 | 72 | 3 | He | 0.200 | ug/l | 914.51 |
| Cu | 65 | 72 | 1 | NO GAS | 0.071 | ug/l | 629.89 |
| Zn | 66 | 72 | 1 | NO GAS | 0.030 | ug/l | 465.51 |
| Zn | 66 | 72 | 3 | He | 0.002 | ug/l | 64.44 |
| As | 75 | 72 | 1 | NO GAS | 0.503 | ug/l | 5915.99 |
| As | 75 | 72 | 3 | He | 0.002 | ug/l | 7.67 |
| Se | 78 | 72 | 2 | H2 | 0.005 | ug/l | 4.67 |
| Br | 79 | 72 | 1 | NO GAS | 0.254 | ug/l | 81537.14 |
| Br | 79 | 72 | 2 | H2 | 0.171 | ug/l | 12586.62 |
| Se | 82 | 72 | 1 | NO GAS | 0.875 | ug/l | 474.43 |
| Kr | 84 | 72 | 1 | NO GAS | | ug/l | 8771.65 |
| Sr | 88 | 72 | 1 | NO GAS | 0.042 | ug/l | 2222.44 |
| Sr | 88 | 72 | 3 | He | 0.054 | ug/l | 336.67 |

ICPMS206-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Mo | 95 | 72 | 1 | NO GAS | 0.010 | ug/l | 191.12 |
| Mo | 95 | 72 | 3 | He | 0.007 | ug/l | 62.22 |
| Mo | 98 | 72 | 1 | NO GAS | 0.006 | ug/l | 269.66 |
| Ag | 107 | 72 | 1 | NO GAS | -0.003 | ug/l | 1985.74 |
| Ag | 109 | 72 | 1 | NO GAS | 0.003 | ug/l | 2000.40 |
| Cd | 111 | 159 | 1 | NO GAS | -0.005 | ug/l | -15.37 |
| Cd | 111 | 159 | 3 | He | 0.005 | ug/l | 11.33 |
| Cd | 114 | 159 | 1 | NO GAS | -0.011 | ug/l | -380.09 |
| Cd | 114 | 159 | 3 | He | -0.001 | ug/l | -29.98 |
| Sn | 118 | 159 | 1 | NO GAS | 0.037 | ug/l | 48763.69 |
| Sn | 118 | 159 | 3 | He | 0.016 | ug/l | 7356.18 |
| Sb | 121 | 159 | 1 | NO GAS | 0.017 | ug/l | 1064.49 |
| Sb | 121 | 159 | 3 | He | 0.024 | ug/l | 163.33 |
| Sb | 123 | 159 | 1 | NO GAS | 0.017 | ug/l | 821.14 |
| Sb | 123 | 159 | 3 | He | 0.019 | ug/l | 108.89 |
| Ba | 135 | 159 | 1 | NO GAS | 0.017 | ug/l | 123.09 |
| Ba | 137 | 159 | 1 | NO GAS | 0.010 | ug/l | 146.38 |
| La | 139 | 175 | 1 | NO GAS | 0.004 | ug/l | 407.09 |
| La | 139 | 175 | 3 | He | 0.002 | ug/l | 56.72 |
| Ce | 140 | 175 | 1 | NO GAS | 0.005 | ug/l | 497.19 |
| Ce | 140 | 175 | 3 | He | 0.005 | ug/l | 140.14 |
| Hg | 201 | 175 | 1 | NO GAS | 0.001 | ug/l | 29.00 |
| Hg | 202 | 175 | 1 | NO GAS | 0.003 | ug/l | 109.31 |
| Hg | 202 | 175 | 3 | He | 0.003 | ug/l | 58.66 |
| Tl | 203 | 175 | 3 | He | 0.017 | ug/l | 635.23 |
| Tl | 205 | 175 | 1 | NO GAS | 0.015 | ug/l | 2819.18 |
| Tl | 205 | 175 | 3 | He | 0.017 | ug/l | 1594.44 |
| [Pb] | 206 | 175 | 1 | NO GAS | 0.004 | ug/l | 170.00 |
| [Pb] | 207 | 175 | 1 | NO GAS | 0.003 | ug/l | 118.89 |
| Pb | 208 | 175 | 1 | NO GAS | 0.004 | ug/l | 683.35 |
| Th | 232 | 175 | 3 | He | 0.018 | ug/l | 2306.40 |
| U | 238 | 175 | 1 | NO GAS | 0.006 | ug/l | 809.53 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | NO GAS | 2379932.18 | 114.3 |
| Sc | 45 | 2 | H2 | 109882.07 | 121.0 |
| Sc | 45 | 3 | He | 61535.44 | 112.0 |
| Ge | 72 | 1 | NO GAS | 1001671.02 | 111.8 |
| Ge | 72 | 2 | H2 | 155956.81 | 120.5 |
| Ge | 72 | 3 | He | 92543.96 | 109.8 |
| Tb | 159 | 1 | NO GAS | 20988626.85 | 104.3 |
| Tb | 159 | 3 | He | 7595274.54 | 103.4 |
| Ho | 165 | 1 | NO GAS | 19499381.61 | 103.9 |
| Ho | 165 | 3 | He | 7368572.27 | 101.8 |
| Lu | 175 | 1 | NO GAS | 21168585.75 | 105.8 |
| Lu | 175 | 3 | He | 4485558.26 | 101.7 |

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, $X_{CRM/RM}$, 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 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

Analyses

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: | Calcium, Potassium, Magnesium, Sodium, |
| | 1 000 µg/mL ea: | Phosphorus, |
| Value / Analyte(s): | 500 µg/mL ea: | Manganese, Iron, Aluminum, |
| | 100 µg/mL ea: | Arsenic, Boron, Barium, Cobalt, Chromium, Copper, Lithium, Nickel, Lead, Selenium, Strontium, Thallium, Vanadium, Zinc, |
| Value / Analyte(s): | 50 µg/mL ea: | Cadmium, Beryllium, |
| | 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° ± 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: ME220106 AUDIGSPK
Standard Name: AUDIGSPK
Date Prepared: 1/6/2022
Date Expires: 10/25/2022
Department: ME
Vendor:
Lot Number:
Balance ID:
Comments:

Type: Secondary
BY: Amanda E. McDani
Status: Open

| <u>Stock Source</u> | <u>Base Units</u> | <u>Final Volume:</u> 50 mL | <u>Amount Added</u> |
|-------------------------------------|-------------------|-------------------------------|---------------------|
| ME211202A U Stock | ug/mL | | 5 mL |
| ME 211025 Th Sec Th Seondary Stock | ug/mL | | 5 mL |
| ME211222 Ce 2nd Ce Secondary Stock | ug/mL | | 5 mL |
| ME211222 La Sec La Secondary Stock | ug/mL | | 5 mL |
| ME211229A AU 2n Au 2nd source Stock | ug/mL | | 15 mL |
| ME211025A Te Stock | ug/mL | | 15 mL |

| <u>Analytes</u> | <u>CAS</u> | <u>Conc:</u> | <u>ug/mL</u> |
|-----------------|------------|--------------|--------------|
|-----------------|------------|--------------|--------------|

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

Energav 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 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 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
Phone: +49 (0) 8342-89560-61
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%

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

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:
Comments: opened 12/22/2021, expires 12/22/2022

Type: Primary
BY: Amanda E. McDani
Status: Open

| 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**

A Cerium

7440-45-1

1000

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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Fax: +1 (800) 253-5549

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SILIC 642, 91965
Villebon sur Yvette, France
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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: 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.*

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 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 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 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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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

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

Analvtes

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:

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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 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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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: ME211207 2008TS
Standard Name: 200.8 Tune Solution
Date Prepared: 12/7/2021
Date Expires: 12/7/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: R2-MEB691898
Balance ID:
Comments: Opened 12/7/2021; Expired 12/7/2022

Type: Primary
BY: Stacy R. Hendricks
Status: New

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|-------------------------------------|----------|-----|-------|-------|
| Multi Analyte Custom Grade Solution | 13795 | 125 | mL | 12/7/ |

Final Volume: 125 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: 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° - 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 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



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

| <u>Stock Source</u> | Base Units | Amount Added |
|-------------------------------------|-------------------|---------------------|
| ME211208 MSCAL MSCAL 2B | ug/mL | 0.5 mL |
| ME211118 MSCAL EL-MSCAL-5A | ug/mL | 0.5 mL |
| ME211229A AU 2n Au 2nd source Stock | ug/mL | 0.01 mL |

| <u>Analytes</u> | 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**

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:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

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

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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

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 (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 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 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 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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Marktoberdorf
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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

| <u>Stock Source</u> | <u>Base Units</u> | <u>Amount Added</u> |
|--|-------------------|---------------------|
| ME211221 MSCAL MSCAL 3C | ug/mL | 0.05 mL |
| ME211118 MSCAL EL-MSCAL-5A | ug/mL | 0.25 mL |
| ME220105 HgPrim Primary Hg Stock 2 PPM | ug/mL | 0.05 mL |
| ME211208 MSCAL MSCAL 2B | ug/mL | 0.05 mL |
| ME211229A AU 2n Au 2nd source Stock | ug/mL | 0.01 mL |
| ME220110 Ce, La Ce, La Primary | ug/mL | 0.05 mL |

| <u>Analytes</u> | <u>CAS</u> | Conc: | <u>mg/L</u> |
|-----------------|------------|-------|-------------|
|-----------------|------------|-------|-------------|

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:

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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Marktberdorf
Phone: +49 (0) 8342-89560-61
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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

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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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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:

$$w_i = (1/u_{char\ i}^2) / (\sum (1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

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:

Type: Primary
BY: Amanda E. McDani

Status: Open

Comments: opened 12/29/2021; expires 12/29/2022

| 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 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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Marktoberdorf
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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,
 Titanium,
 Antimony

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

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

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: +1 (800) 253-5549

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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 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).
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- 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:

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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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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: 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 (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

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 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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Marktoberdorf
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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 | | |

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 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 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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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
 Energy 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, $X_{\text{CRM/RM}}$, 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: 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

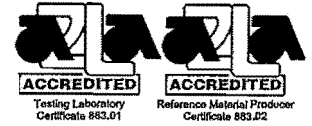
Analvtes

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) HNO₃
 Value / Analyte(s):
 5 000 µg/mL ea:
 Calcium, Potassium, Magnesium,
 Sodium,
 1 000 µg/mL ea:
 Phosphorus,
 500 µg/mL ea:
 Manganese, Iron, Aluminum,
 100 µg/mL ea:
 Arsenic, Boron, Barium,
 Cobalt, Chromium, Copper,
 Lithium, Nickel, Lead,
 Selenium, Strontium, Thallium,
 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
measured at 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 n with

$u_{\text{char } n}$ = the standard uncertainty of characterization Method n

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } n}^2 + u_{\text{bb}}^2 + u_{\text{its}}^2 + u_{\text{ts}}^2)^{1/2}$$

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 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 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 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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Fax: +1 (800) 253-5549

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SILIC 642, 91965
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Phone: +33 (0) 1 69 18 71 17
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: 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
 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 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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Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME210901 ICSA
Standard Name: ICSA
Date Prepared: 9/1/2021
Date Expires: 9/1/2022
Department: ME
Vendor:
Lot Number:
Balance ID:
Comments: Made fresh every Monday, Wednesday, and Friday

Type: Secondary
BY: Cindy Rohrer
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|---------------------------------------|----------|------|-------|-------|
| Nitric Acid, 69.0-70.0%,0000282671 | 14178 | 1 | mL | 4/11/ |
| Milli-Q H2O | 391 | 46.5 | 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

Base Units
ug/mL

Amount Added
2 mL

Analvtes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Standard LOG

Standard ID: ME210901 6020ICS-8A
Standard Name: 6020ICS-8A
Date Prepared: 9/1/2021
Date Expires: 9/1/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: P2-MEB684490
Balance ID:
Comments: Opened on 9/01/2021; Expires on 9/01/2022.

Type: Primary
BY: Alyssa A. espinoza
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|----------|
| Multi Analyte Custom Grade Solution | 13794 | 500 | mL | 9/1/2022 |

Final Volume:
500 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-8A
 Lot Number: R2-MEB693957
 Matrix: 1% (v/v) HNO₃
 Value / Analyte(s):
 18 000 µg/mL ea:
 Chloride,
 3 000 µg/mL ea:
 Calcium,
 2 500 µg/mL ea:
 Iron,
 2 000 µg/mL ea:
 Carbon,
 1 000 µg/mL ea:
 Aluminum,
 Sulfur,
 Magnesium,
 20 µg/mL ea:
 Molybdenum,

Sodium,

 Phosphorus,
 Potassium,

Titanium

ID #: 13794

Opened:

Multi Analyte Custom Grade Solution

Expires: 6/18/2024

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 |
|----------------|--------------------|---------------|-----------------------|
| Aluminum, Al | 1 001 ± 4 µg/mL | Calcium, Ca | 3 003 ± 12 µg/mL |
| Carbon, C | 2 002 ± 5 µg/mL | Chloride, Cl | 18 020.0 ± 90.0 µg/mL |
| Iron, Fe | 2 502 ± 10 µg/mL | Magnesium, Mg | 1 001 ± 4 µg/mL |
| Molybdenum, Mo | 20.02 ± 0.09 µg/mL | Phosphorus, P | 1 001 ± 6 µg/mL |
| Potassium, K | 1 001 ± 4 µg/mL | Sodium, Na | 2 502 ± 9 µg/mL |
| Sulfur, S | 1 001 ± 4 µg/mL | Titanium, Ti | 20.02 ± 0.12 µg/mL |

Density: 1.050 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|-------------------|--------------|
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| C | Acidimetric | 84L | 84L |
| 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 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mo | ICP Assay | 3134 | 130418 |
| Mo | Calculated | | See Sec. 4.2 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| P | ICP Assay | 3139a | 060717 |
| P | Acidimetric | 84L | 84L |
| S | Acidimetric | 84L | 84L |
| S | ICP Assay | traceable to 3154 | M2-S657208 |
| Ti | ICP Assay | 3162a | 130925 |
| Ti | Calculated | | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

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 ($\mu\text{g/mL}$)

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 | < | 0.000110 | M | Eu | < | 0.000067 | s | Na | < | | M | Se | < | 0.003300 | M | Zn | < | 0.007900 | |
| s | Al | < | | s | Fe | < | | | M | Nb | < | 0.000140 | O | Si | < | 0.011000 | M | Zr | < | 0.000770 |
| O | As | < | 0.021000 | M | Ga | < | 0.026000 | M | Nd | < | 0.000034 | M | Sm | < | 0.000034 | | | | | |
| M | Au | < | 0.000067 | M | Gd | < | 0.000067 | O | Ni | < | 0.002900 | M | Sn | < | 0.000210 | | | | | |
| M | B | < | 0.001200 | M | Ge | < | 0.002600 | M | Os | < | 0.000034 | M | Sr | < | 0.031000 | | | | | |
| M | Ba | < | 0.001400 | M | Hf | < | 0.000034 | s | P | < | | M | Ta | < | 0.000340 | | | | | |
| O | Be | < | 0.000210 | M | Hg | < | 0.000140 | M | Pb | < | 0.000510 | M | Tb | < | 0.000034 | | | | | |
| M | Bi | < | 0.000210 | M | Ho | < | 0.000034 | M | Pd | < | 0.000110 | M | Te | < | 0.000670 | | | | | |
| s | Ca | < | | M | In | < | 0.000067 | M | Pr | < | 0.000034 | M | Th | < | 0.000034 | | | | | |
| O | Cd | < | 0.002700 | M | Ir | < | 0.000034 | M | Pt | < | 0.000034 | s | Ti | < | | | | | | |
| M | Ce | < | 0.000140 | s | K | < | | | M | Rb | < | 0.056000 | M | Tl | < | 0.000210 | | | | |
| M | Co | < | 0.014000 | M | La | < | 0.000410 | M | Re | < | 0.000034 | M | Tm | < | 0.000034 | | | | | |
| M | Cr | < | 0.022000 | O | Li | < | 0.002500 | M | Rh | < | 0.000067 | M | U | < | 0.000034 | | | | | |
| M | Cs | < | 0.000970 | M | Lu | < | 0.000034 | M | Ru | < | 0.000340 | M | V | < | 0.000410 | | | | | |
| M | Cu | < | 0.009900 | s | Mg | < | | | s | S | < | | M | W | < | 0.001800 | | | | |
| M | Dy | < | 0.000034 | M | Mn | < | 0.005300 | M | Sb | < | 0.000640 | M | Y | < | 0.000034 | | | | | |
| M | Er | < | 0.000034 | s | Mo | < | | | M | Sc | < | 0.000540 | M | Yb | < | 0.000034 | | | | |

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

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA. Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 18, 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

- **June 18, 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: 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, Copper,
 Manganese, Nickel, Vanadium,
 10 µg/mL ea:
 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

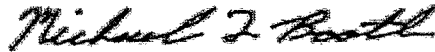
- Sealed TCT Bag Open Date: _____

- 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:
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

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: +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.*

CORPORATE HEADQUARTERS
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Baie D'Urfé (Montréal), Quebec,
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12 Ave. de Québec, Bat. IRIS
91140, Villebon-sur-Yvette
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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,
 Boron,
 Beryllium,
 Cobalt,
 Copper,
 Manganese,
 Lead,
 Strontium,
 Thallium,
 Vanadium,
 40 µg/mL ea:
 Silver

Arsenic,
 Barium,
 Cadmium,
 Chromium,
 Iron,
 Nickel,
 Selenium,
 Thorium,
 Uranium,
 Zinc,

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 206 INTERNAL STANDARD
 Standard Name Internal Standards 2 mg/L
 Date Prepared 1/12/2022
 Date Expires: 2/8/2022
 Department ME
 Vendor:
 Lot Number:
 Balance ID:
 Comments:

Type: Secondary
 BY: Cindy Rohrer
 Status: New

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|--|----------|-----|-------|------------|
| Hydrochloric Acid E1421 | 14721 | 10 | mL | 1/4/2027 |
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 20 | mL | 12/14/2026 |
| ICP/ICPMS Standard Germanium | 13639 | 2 | mL | 4/20/2022 |
| Holmium Single Analyte Custom Grade S | 13443 | 2 | mL | 2/12/2022 |
| Terbium Single Analyte Atomic Absorption | 13445 | 2 | mL | 2/12/2022 |
| Lutetium Single Analyte Atomic Absorptio | 13444 | 2 | mL | 3/1/2024 |
| PlasmaCal Standard Scandium | 13520 | 2 | mL | 8/31/2022 |
| ICP/ICPMS Standard Gold | 14710 | 0.2 | mL | 12/29/2022 |

Final Volume:
1000 mL

Stock Source

Base Units

Amount Added

Analytes

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
 Enerav 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 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.*

CORPORATE HEADQUARTERS
21800 Clark Graham
Baie D'Urfé (Montréal), Quebec,
H9X 4B6 Canada
Phone: +1 (800) 361-6820
Fax: +1 (800) 253-5549

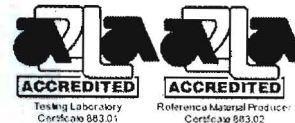
USA
3rd Party Distribution Center
348 Route 11, Champlain,
N.Y. 12919-4816
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Fax: +1 (800) 253-5549

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Villebon sur Yvette, France
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Fax: +33 (0) 1 60 92 05 67

GERMANY
Alte Marktobderdorfer Straße 14, 87616
Marktobderdorf
Phone: +49 (0) 8342-89560-61
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

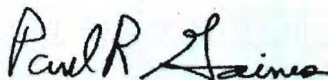
Certificate Approved By:

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: 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
Eneray 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):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|---|
| 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



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

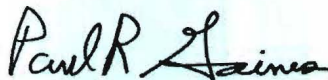
Certificate Approved By:

Michael Booth
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



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 #: 13520
 Opened: _____
 PlasmaCal Standard Scandium
Expires: 8/31/2022
 Rec'd: 1/26/2021
 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 | <0.0244 | 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 (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 présupant 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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Marktoberdorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

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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