

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28N9

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-01

% Solids: 78.7 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.11	J	12/23/2024	1443
7440-38-2	Arsenic	7.2		12/23/2024	1443
7440-39-3	Barium	62		12/23/2024	1443
7440-41-7	Beryllium	0.57		12/23/2024	1443
7440-43-9	Cadmium	0.29	J	12/23/2024	1443
7440-47-3	Chromium	13		12/23/2024	1443
7440-48-4	Cobalt	7.7		12/23/2024	1443
7440-50-8	Copper	16	*	12/23/2024	1443
7439-92-1	Lead	17		12/23/2024	1443
7439-96-5	Manganese	620		12/23/2024	1443
7440-02-0	Nickel	42	*	12/23/2024	1443
7782-49-2	Selenium	0.33	J	12/23/2024	1443
7440-22-4	Silver	0.078	J	12/23/2024	1443
7440-28-0	Thallium	0.17	J	12/23/2024	1443
7440-62-2	Vanadium	17		12/23/2024	1443
7440-66-6	Zinc	58		12/23/2024	1443

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

Comments:

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ME28P0

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-02

% Solids: 75.2 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.091	J	12/23/2024	1446
7440-38-2	Arsenic	8.9		12/23/2024	1446
7440-39-3	Barium	80		12/23/2024	1446
7440-41-7	Beryllium	0.80		12/23/2024	1446
7440-43-9	Cadmium	0.30	J	12/23/2024	1446
7440-47-3	Chromium	21		12/23/2024	1446
7440-48-4	Cobalt	14		12/23/2024	1446
7440-50-8	Copper	23	*	12/23/2024	1446
7439-92-1	Lead	14		12/23/2024	1446
7439-96-5	Manganese	470		12/23/2024	1446
7440-02-0	Nickel	36	*	12/23/2024	1446
7782-49-2	Selenium	2.8	U	12/23/2024	1446
7440-22-4	Silver	0.57	U	12/23/2024	1446
7440-28-0	Thallium	0.24	J	12/23/2024	1446
7440-62-2	Vanadium	27		12/23/2024	1446
7440-66-6	Zinc	69		12/23/2024	1446

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

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ME28P1

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-03

% Solids: 89.1 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.17	J	12/23/2024	1449
7440-38-2	Arsenic	5.8		12/23/2024	1449
7440-39-3	Barium	76		12/23/2024	1449
7440-41-7	Beryllium	0.40	J	12/23/2024	1449
7440-43-9	Cadmium	0.30	J	12/23/2024	1449
7440-47-3	Chromium	15		12/23/2024	1449
7440-48-4	Cobalt	8.5		12/23/2024	1449
7440-50-8	Copper	16	*	12/23/2024	1449
7439-92-1	Lead	7.2		12/23/2024	1449
7439-96-5	Manganese	340		12/23/2024	1449
7440-02-0	Nickel	23	*	12/23/2024	1449
7782-49-2	Selenium	0.35	J	12/23/2024	1449
7440-22-4	Silver	0.061	J	12/23/2024	1449
7440-28-0	Thallium	0.11	J	12/23/2024	1449
7440-62-2	Vanadium	21		12/23/2024	1449
7440-66-6	Zinc	50		12/23/2024	1449

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

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ME28P2

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-04

% Solids: 83.5 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.099	J	12/23/2024	1452
7440-38-2	Arsenic	7.0		12/23/2024	1452
7440-39-3	Barium	99		12/23/2024	1452
7440-41-7	Beryllium	0.46	J	12/23/2024	1452
7440-43-9	Cadmium	0.30	J	12/23/2024	1452
7440-47-3	Chromium	16		12/23/2024	1452
7440-48-4	Cobalt	8.4		12/23/2024	1452
7440-50-8	Copper	16	*	12/23/2024	1452
7439-92-1	Lead	14		12/23/2024	1452
7439-96-5	Manganese	470		12/23/2024	1452
7440-02-0	Nickel	21	*	12/23/2024	1452
7782-49-2	Selenium	2.5	U	12/23/2024	1452
7440-22-4	Silver	0.50	U	12/23/2024	1452
7440-28-0	Thallium	0.16	J	12/23/2024	1452
7440-62-2	Vanadium	19		12/23/2024	1452
7440-66-6	Zinc	64		12/23/2024	1452

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

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ME28P3

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-05

% Solids: 90.1 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.80	J	12/23/2024	1455
7440-38-2	Arsenic	42		12/23/2024	1455
7440-39-3	Barium	360		12/23/2024	1455
7440-41-7	Beryllium	0.56		12/23/2024	1455
7440-43-9	Cadmium	2.7		12/23/2024	1455
7440-47-3	Chromium	22		12/23/2024	1455
7440-48-4	Cobalt	4.7		12/23/2024	1455
7440-50-8	Copper	43	*	12/23/2024	1455
7439-92-1	Lead	600		12/23/2024	1455
7439-96-5	Manganese	280		12/23/2024	1455
7440-02-0	Nickel	18	*	12/23/2024	1455
7782-49-2	Selenium	2.9		12/23/2024	1455
7440-22-4	Silver	0.068	J	12/23/2024	1455
7440-28-0	Thallium	0.35	J	12/23/2024	1455
7440-62-2	Vanadium	20		12/23/2024	1455
7440-66-6	Zinc	590		12/23/2024	1455

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

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ME28P4

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-06

% Solids: 85.7 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.19	J	12/23/2024	1458
7440-38-2	Arsenic	5.4		12/23/2024	1458
7440-39-3	Barium	73		12/23/2024	1458
7440-41-7	Beryllium	0.60		12/23/2024	1458
7440-43-9	Cadmium	0.25	J	12/23/2024	1458
7440-47-3	Chromium	16		12/23/2024	1458
7440-48-4	Cobalt	6.1		12/23/2024	1458
7440-50-8	Copper	19	*	12/23/2024	1458
7439-92-1	Lead	15		12/23/2024	1458
7439-96-5	Manganese	510		12/23/2024	1458
7440-02-0	Nickel	18	*	12/23/2024	1458
7782-49-2	Selenium	0.42	J	12/23/2024	1458
7440-22-4	Silver	0.051	J	12/23/2024	1458
7440-28-0	Thallium	0.16	J	12/23/2024	1458
7440-62-2	Vanadium	14		12/23/2024	1458
7440-66-6	Zinc	87		12/23/2024	1458

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

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ME28P5

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-07

% Solids: 84.2 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.087	J	12/23/2024	1502
7440-38-2	Arsenic	9.7		12/23/2024	1502
7440-39-3	Barium	79		12/23/2024	1502
7440-41-7	Beryllium	0.79		12/23/2024	1502
7440-43-9	Cadmium	0.31	J	12/23/2024	1502
7440-47-3	Chromium	19		12/23/2024	1502
7440-48-4	Cobalt	14		12/23/2024	1502
7440-50-8	Copper	20	*	12/23/2024	1502
7439-92-1	Lead	19		12/23/2024	1502
7439-96-5	Manganese	1000		12/23/2024	1502
7440-02-0	Nickel	23	*	12/23/2024	1502
7782-49-2	Selenium	0.43	J	12/23/2024	1502
7440-22-4	Silver	0.058	J	12/23/2024	1502
7440-28-0	Thallium	0.17	J	12/23/2024	1502
7440-62-2	Vanadium	27		12/23/2024	1502
7440-66-6	Zinc	62		12/23/2024	1502

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

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ME28P6

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-08

% Solids: 89.8 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.12	J	12/23/2024	1505
7440-38-2	Arsenic	6.3		12/23/2024	1505
7440-39-3	Barium	64		12/23/2024	1505
7440-41-7	Beryllium	0.33	J	12/23/2024	1505
7440-43-9	Cadmium	0.14	J	12/23/2024	1505
7440-47-3	Chromium	12		12/23/2024	1505
7440-48-4	Cobalt	7.5		12/23/2024	1505
7440-50-8	Copper	18	*	12/23/2024	1505
7439-92-1	Lead	8.1		12/23/2024	1505
7439-96-5	Manganese	440		12/23/2024	1505
7440-02-0	Nickel	20	*	12/23/2024	1505
7782-49-2	Selenium	2.3	U	12/23/2024	1505
7440-22-4	Silver	0.47	U	12/23/2024	1505
7440-28-0	Thallium	0.17	J	12/23/2024	1505
7440-62-2	Vanadium	15		12/23/2024	1505
7440-66-6	Zinc	50		12/23/2024	1505

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

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ME28P7

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-09

% Solids: 91.1 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.075	J	12/23/2024	1508
7440-38-2	Arsenic	1.2		12/23/2024	1508
7440-39-3	Barium	20		12/23/2024	1508
7440-41-7	Beryllium	0.053	J	12/23/2024	1508
7440-43-9	Cadmium	0.44	U	12/23/2024	1508
7440-47-3	Chromium	4.1		12/23/2024	1508
7440-48-4	Cobalt	0.92		12/23/2024	1508
7440-50-8	Copper	2.3	*	12/23/2024	1508
7439-92-1	Lead	2.0		12/23/2024	1508
7439-96-5	Manganese	81		12/23/2024	1508
7440-02-0	Nickel	4.4	*	12/23/2024	1508
7782-49-2	Selenium	0.30	J	12/23/2024	1508
7440-22-4	Silver	0.44	U	12/23/2024	1508
7440-28-0	Thallium	0.044	J	12/23/2024	1508
7440-62-2	Vanadium	4.7		12/23/2024	1508
7440-66-6	Zinc	8.9		12/23/2024	1508

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

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ME28P8

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-10

% Solids: 72.2 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	1.8		12/23/2024	1511
7440-38-2	Arsenic	15		12/23/2024	1511
7440-39-3	Barium	180		12/23/2024	1511
7440-41-7	Beryllium	0.80		12/23/2024	1511
7440-43-9	Cadmium	1.3		12/23/2024	1511
7440-47-3	Chromium	240		12/23/2024	1511
7440-48-4	Cobalt	9.5		12/23/2024	1511
7440-50-8	Copper	390	*	12/23/2024	1511
7439-92-1	Lead	220		12/23/2024	1511
7439-96-5	Manganese	630		12/23/2024	1511
7440-02-0	Nickel	140	*	12/23/2024	1511
7782-49-2	Selenium	3.0	U	12/23/2024	1511
7440-22-4	Silver	0.57	J	12/23/2024	1511
7440-28-0	Thallium	0.12	J	12/23/2024	1511
7440-62-2	Vanadium	29		12/23/2024	1511
7440-66-6	Zinc	620		12/23/2024	1511

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

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ME28P9

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-11

% Solids: 81.4 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	2.7		12/23/2024	1514
7440-38-2	Arsenic	16		12/23/2024	1514
7440-39-3	Barium	250		12/23/2024	1514
7440-41-7	Beryllium	0.97		12/23/2024	1514
7440-43-9	Cadmium	1.4		12/23/2024	1514
7440-47-3	Chromium	260		12/23/2024	1514
7440-48-4	Cobalt	22		12/23/2024	1514
7440-50-8	Copper	370	*	12/23/2024	1514
7439-92-1	Lead	200		12/23/2024	1514
7439-96-5	Manganese	1100		12/23/2024	1514
7440-02-0	Nickel	180	*	12/23/2024	1514
7782-49-2	Selenium	2.7	U	12/23/2024	1514
7440-22-4	Silver	0.41	J	12/23/2024	1514
7440-28-0	Thallium	0.066	J	12/23/2024	1514
7440-62-2	Vanadium	34		12/23/2024	1514
7440-66-6	Zinc	250		12/23/2024	1514

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

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ME28Q0

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-12

% Solids: 68.8 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	1.2		12/23/2024	1517
7440-38-2	Arsenic	11		12/23/2024	1517
7440-39-3	Barium	430		12/23/2024	1517
7440-41-7	Beryllium	1.2		12/23/2024	1517
7440-43-9	Cadmium	2.6		12/23/2024	1517
7440-47-3	Chromium	110		12/23/2024	1517
7440-48-4	Cobalt	10		12/23/2024	1517
7440-50-8	Copper	270	*	12/23/2024	1517
7439-92-1	Lead	580		12/23/2024	1517
7439-96-5	Manganese	1300		12/23/2024	1517
7440-02-0	Nickel	170	*	12/23/2024	1517
7782-49-2	Selenium	0.56	J	12/23/2024	1517
7440-22-4	Silver	0.66		12/23/2024	1517
7440-28-0	Thallium	0.12	J	12/23/2024	1517
7440-62-2	Vanadium	25		12/23/2024	1517
7440-66-6	Zinc	610		12/23/2024	1517

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

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ME28Q1

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-13

% Solids: 87.5 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	3.6		12/23/2024	1520
7440-38-2	Arsenic	29		12/23/2024	1520
7440-39-3	Barium	210		12/23/2024	1520
7440-41-7	Beryllium	0.86		12/23/2024	1520
7440-43-9	Cadmium	2.1		12/23/2024	1520
7440-47-3	Chromium	440		12/23/2024	1520
7440-48-4	Cobalt	18		12/23/2024	1520
7440-50-8	Copper	1000	*	12/23/2024	1520
7439-92-1	Lead	510		12/23/2024	1520
7439-96-5	Manganese	1400		12/23/2024	1520
7440-02-0	Nickel	210	*	12/23/2024	1520
7782-49-2	Selenium	2.6	U	12/23/2024	1520
7440-22-4	Silver	0.55		12/23/2024	1520
7440-28-0	Thallium	0.072	J	12/23/2024	1520
7440-62-2	Vanadium	37		12/23/2024	1520
7440-66-6	Zinc	680		12/23/2024	1520

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

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ME28Q2

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-14

% Solids: 83.6 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	1.2		12/23/2024	1523
7440-38-2	Arsenic	11		12/23/2024	1523
7440-39-3	Barium	140		12/23/2024	1523
7440-41-7	Beryllium	0.76		12/23/2024	1523
7440-43-9	Cadmium	1.0		12/23/2024	1523
7440-47-3	Chromium	290		12/23/2024	1523
7440-48-4	Cobalt	11		12/23/2024	1523
7440-50-8	Copper	220	*	12/23/2024	1523
7439-92-1	Lead	150		12/23/2024	1523
7439-96-5	Manganese	880		12/23/2024	1523
7440-02-0	Nickel	120	*	12/23/2024	1523
7782-49-2	Selenium	2.7	U	12/23/2024	1523
7440-22-4	Silver	0.25	J	12/23/2024	1523
7440-28-0	Thallium	0.11	J	12/23/2024	1523
7440-62-2	Vanadium	29		12/23/2024	1523
7440-66-6	Zinc	520		12/23/2024	1523

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28Q3

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-15

% Solids: 77.3 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	1.9		12/23/2024	1526
7440-38-2	Arsenic	15		12/23/2024	1526
7440-39-3	Barium	150		12/23/2024	1526
7440-41-7	Beryllium	0.88		12/23/2024	1526
7440-43-9	Cadmium	5.0		12/23/2024	1526
7440-47-3	Chromium	280		12/23/2024	1526
7440-48-4	Cobalt	7.6		12/23/2024	1526
7440-50-8	Copper	62	*	12/23/2024	1526
7439-92-1	Lead	920		12/23/2024	1526
7439-96-5	Manganese	7300	D	12/23/2024	1630
7440-02-0	Nickel	150	*	12/23/2024	1526
7782-49-2	Selenium	0.32	J	12/23/2024	1526
7440-22-4	Silver	2.9		12/23/2024	1526
7440-28-0	Thallium	1.3		12/23/2024	1526
7440-62-2	Vanadium	33		12/23/2024	1526
7440-66-6	Zinc	2700		12/23/2024	1526

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28Q4

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-16

% Solids: 77.8 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	2.0		12/23/2024	1529
7440-38-2	Arsenic	16		12/23/2024	1529
7440-39-3	Barium	140		12/23/2024	1529
7440-41-7	Beryllium	1.0		12/23/2024	1529
7440-43-9	Cadmium	5.1		12/23/2024	1529
7440-47-3	Chromium	300		12/23/2024	1529
7440-48-4	Cobalt	8.2		12/23/2024	1529
7440-50-8	Copper	65	*	12/23/2024	1529
7439-92-1	Lead	2800	D	12/23/2024	1633
7439-96-5	Manganese	6200	D	12/23/2024	1633
7440-02-0	Nickel	150	*	12/23/2024	1529
7782-49-2	Selenium	0.36	J	12/23/2024	1529
7440-22-4	Silver	3.0		12/23/2024	1529
7440-28-0	Thallium	1.1	D	12/23/2024	1633
7440-62-2	Vanadium	30		12/23/2024	1529
7440-66-6	Zinc	14000	D	12/23/2024	1616

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28Q5

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-19

% Solids: 84.5 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.20	J	12/23/2024	1542
7440-38-2	Arsenic	11		12/23/2024	1542
7440-39-3	Barium	65		12/23/2024	1542
7440-41-7	Beryllium	0.56		12/23/2024	1542
7440-43-9	Cadmium	0.79		12/23/2024	1542
7440-47-3	Chromium	24		12/23/2024	1542
7440-48-4	Cobalt	12		12/23/2024	1542
7440-50-8	Copper	44	*	12/23/2024	1542
7439-92-1	Lead	30		12/23/2024	1542
7439-96-5	Manganese	580		12/23/2024	1542
7440-02-0	Nickel	35	*	12/23/2024	1542
7782-49-2	Selenium	0.36	J	12/23/2024	1542
7440-22-4	Silver	0.12	J	12/23/2024	1542
7440-28-0	Thallium	0.14	J	12/23/2024	1542
7440-62-2	Vanadium	22		12/23/2024	1542
7440-66-6	Zinc	110		12/23/2024	1542

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28R3

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-20

% Solids: 77.5 Date Received: 12/06/2024

Analytical Method: ICP_MS

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.82	J	12/23/2024	1545
7440-38-2	Arsenic	9.3		12/23/2024	1545
7440-39-3	Barium	100		12/23/2024	1545
7440-41-7	Beryllium	0.63		12/23/2024	1545
7440-43-9	Cadmium	3.2		12/23/2024	1545
7440-47-3	Chromium	220		12/23/2024	1545
7440-48-4	Cobalt	8.6		12/23/2024	1545
7440-50-8	Copper	86	*	12/23/2024	1545
7439-92-1	Lead	330		12/23/2024	1545
7439-96-5	Manganese	3400		12/23/2024	1545
7440-02-0	Nickel	110	*	12/23/2024	1545
7782-49-2	Selenium	0.46	J	12/23/2024	1545
7440-22-4	Silver	1.2		12/23/2024	1545
7440-28-0	Thallium	0.45	J	12/23/2024	1545
7440-62-2	Vanadium	49		12/23/2024	1545
7440-66-6	Zinc	1200		12/23/2024	1545

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28R4

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-21

% Solids: 77.6 Date Received: 12/06/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	1.0	J	12/23/2024	1548
7440-38-2	Arsenic	11		12/23/2024	1548
7440-39-3	Barium	110		12/23/2024	1548
7440-41-7	Beryllium	0.68		12/23/2024	1548
7440-43-9	Cadmium	3.5		12/23/2024	1548
7440-47-3	Chromium	210		12/23/2024	1548
7440-48-4	Cobalt	11		12/23/2024	1548
7440-50-8	Copper	96	*	12/23/2024	1548
7439-92-1	Lead	370		12/23/2024	1548
7439-96-5	Manganese	3500		12/23/2024	1548
7440-02-0	Nickel	110	*	12/23/2024	1548
7782-49-2	Selenium	0.44	J	12/23/2024	1548
7440-22-4	Silver	1.4		12/23/2024	1548
7440-28-0	Thallium	0.49	J	12/23/2024	1548
7440-62-2	Vanadium	52		12/23/2024	1548
7440-66-6	Zinc	1200		12/23/2024	1548

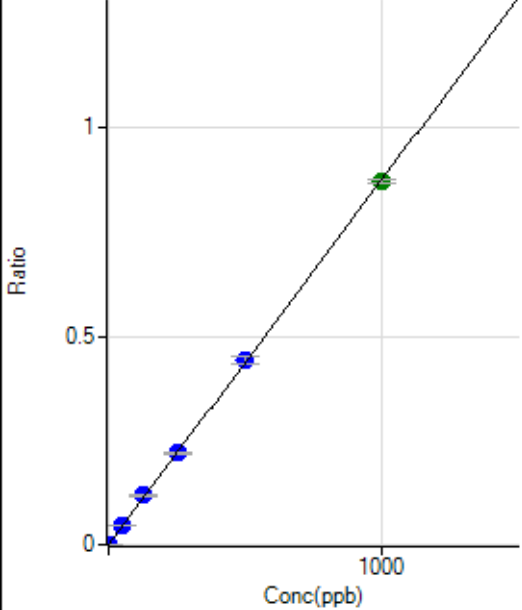
NOTE: Hardness (total) is reported in mg/L

Comments:

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7122324MS.b\
Analysis File: P7122324MS.batch.bin
DA Date-Time: 2024-12-23 17:01:15
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-12-23 10:59:16
2	006CALS.d	S02	2024-12-23 11:05:51
3	007CALS.d	S03	2024-12-23 11:09:06
4	008CALS.d	S04	2024-12-23 11:12:08
5	009CALS.d	S05	2024-12-23 11:14:58
6	010CALS.d	S06	2024-12-23 11:17:46
7	011CALS.d	S07	2024-12-23 11:20:30
8	012CALS.d	S08	2024-12-23 11:23:17

9 Be [No Gas] ISTD:6 Li [No Gas]

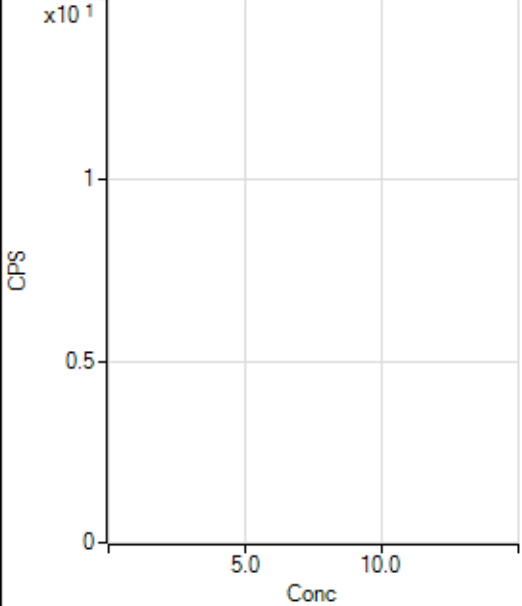


	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	56.67	0.0000	P	11.8
2	☐	1.000	1.175	1823.46	0.0011	P	6.6
3	☐	50.000	54.527	83405.72	0.0477	P	1.3
4	☐	125.000	135.026	209945.46	0.1182	P	2.2
5	☐	250.000	251.410	399224.25	0.2200	P	1.6
6	☐	500.000	506.043	759413.90	0.4428	P	3.3
7	☐	1000.000	995.146	1486101.64	0.8707	A	0.9
8	☐			530.01	0.0003	P	7.2

$y = 8.7489E-004 * x + 3.3492E-005$
R = 0.9999
DL = 0.01351
BEC = 0.03828

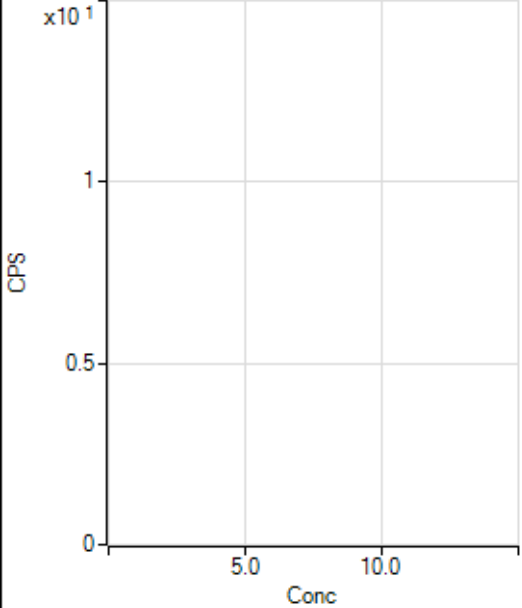
Weight: <None>
Min Conc: 0

12 C [No Gas] No available calibration points



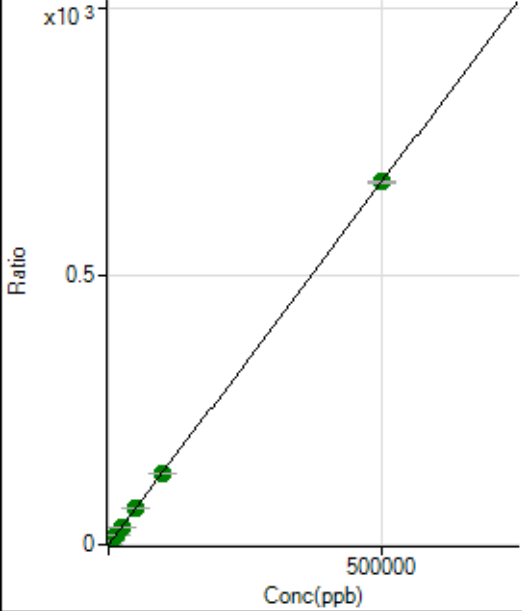
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

23 Na [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22209.44	0.0375	P	1.7
2	☐	500.000	509.986	434280.33	0.7258	P	0.3
3	☐	5000.000	4936.720	3985543.38	6.7000	A	1.2
4	☐	12500.000	12559.490	9771609.85	16.9876	A	0.4
5	☐	25000.000	24690.286	16732555.31	33.3592	A	1.0
6	☐	50000.000	49576.905	32400303.68	66.9458	A	0.5
7	☐	100000.00	98623.807	64898651.81	133.1388	A	0.2
8	☐	500000.00	500332.16	350546243.67	675.2788	A	0.8

$y = 0.0013 * x + 0.0375$

R = 1.0000

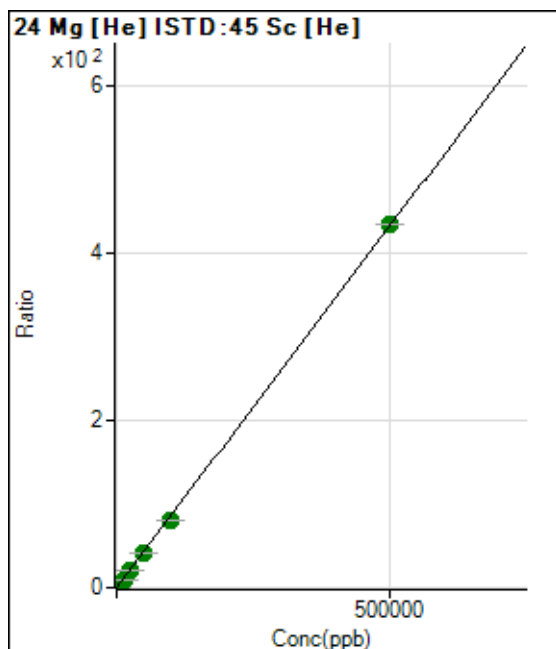
DL = 1.398

BEC = 27.78

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	582.24	0.0010	P	5.9
2	☐	500.000	522.237	271108.56	0.4531	P	0.1
3	☐	5000.000	4700.869	2421363.60	4.0704	A	0.4
4	☐	12500.000	11775.989	5864395.05	10.1952	A	0.6
5	☐	25000.000	23316.065	10125072.49	20.1852	A	0.4
6	☐	50000.000	46762.604	19592580.82	40.4823	A	0.4
7	☐	100000.00	92700.541	39117677.47	80.2498	A	0.4
8	☐	500000.00	501888.89	225542414.42	434.4750	A	0.1

$$y = 8.6568E-004 * x + 9.8288E-004$$

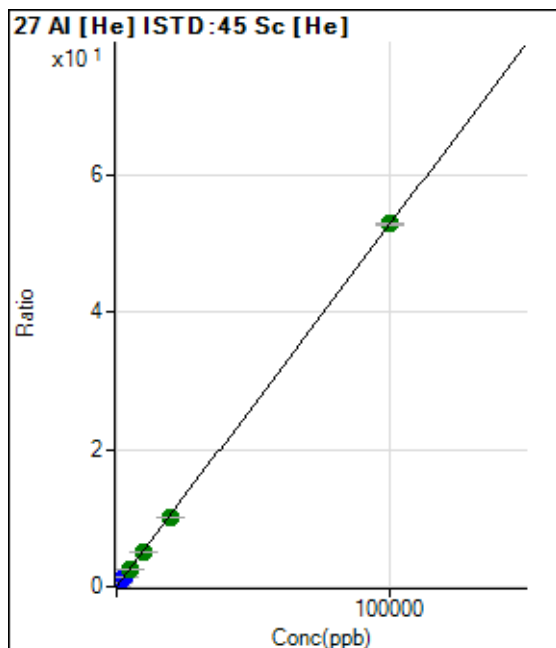
R = 0.9999

DL = 0.2012

BEC = 1.135

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	151.12	0.0003	P	13.4
2	☐	20.000	19.892	6434.73	0.0108	P	2.6
3	☐	1000.000	971.777	305255.07	0.5132	P	0.8
4	☐	2500.000	2457.738	746262.79	1.2974	P	1.2
5	☐	5000.000	4804.346	1272026.55	2.5360	A	0.9
6	☐	10000.000	9691.032	2475598.02	5.1152	A	0.7
7	☐	20000.000	19212.774	4943020.69	10.1407	A	1.0
8	☐	100000.00	100199.46	27453679.31	52.8853	A	0.6

$$y = 5.2780E-004 * x + 2.5514E-004$$

R = 1.0000

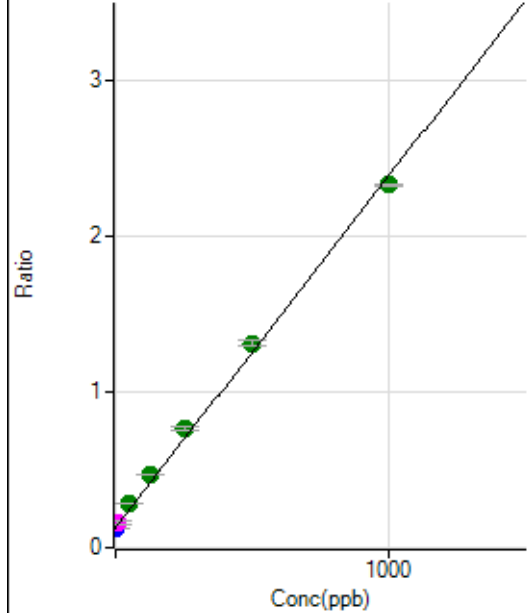
DL = 0.1943

BEC = 0.4834

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD : 45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	850085.00	0.1280	P	0.8
2	☐	10.000	14.916	1063374.44	0.1616	M	15.2
3	☐	50.000	71.146	1922438.81	0.2882	A	0.9
4	☐	125.000	151.579	3097499.08	0.4694	A	0.4
5	☐	250.000	280.694	4760621.56	0.7602	A	3.3
6	☐	500.000	525.120	7304793.78	1.3108	A	2.7
7	☐	1000.000	975.338	13142040.91	2.3249	A	0.5
8	☐			754768.23	0.1293	P	4.4

$$y = 0.0023 * x + 0.1280$$

R = 0.9989

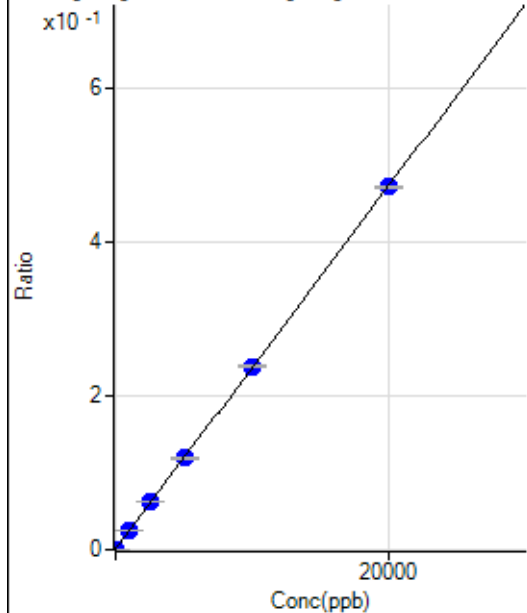
DL = 1.316

BEC = 56.82

Weight: <None>

Min Conc: 0

31 P [He] ISTD : 45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-15.688	177.78	0.0003	P	9.1
2	☐	0.000	15.688	623.35	0.0010	P	11.3
3	☐	1000.000	1031.310	14901.80	0.0251	P	1.2
4	☐	2500.000	2622.293	36043.40	0.0627	P	0.4
5	☐	5000.000	5009.190	59732.46	0.1191	P	0.9
6	☐	10000.000	10056.228	115377.06	0.2384	P	0.7
7	☐	20000.000	19952.736	230239.19	0.4723	P	0.7
8	☐			252.22	0.0005	P	15.7

$$y = 2.3639E-005 * x + 6.7098E-004$$

R = 1.0000

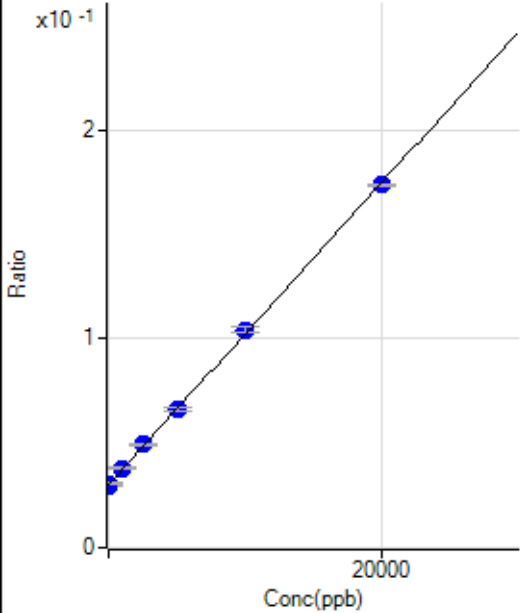
DL = 9.185

BEC = 28.38

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]

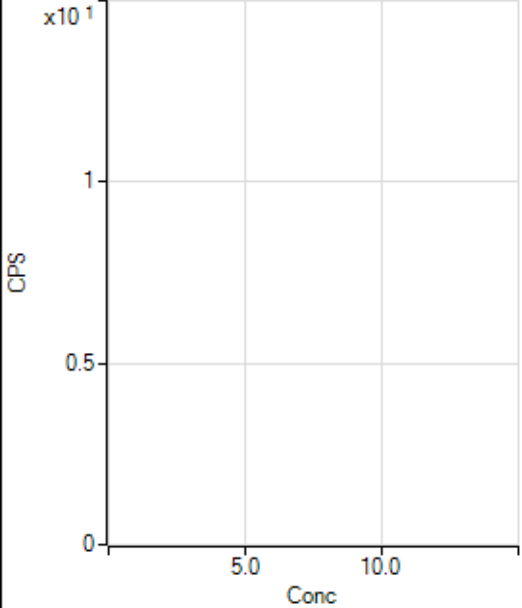


	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-77.910	196606.49	0.0296	P	0.6
2	☐	0.000	77.910	202372.66	0.0307	P	2.5
3	☐	1000.000	1090.931	253700.38	0.0380	P	0.9
4	☐	2500.000	2643.072	324925.97	0.0492	P	0.4
5	☐	5000.000	4971.865	413639.16	0.0661	P	2.9
6	☐	10000.000	10257.775	580680.73	0.1042	P	3.2
7	☐	20000.000	19855.716	980722.64	0.1735	P	0.2
8	☐			157410.28	0.0270	P	5.2

y = 7.2186E-006 * x + 0.0302
R = 0.9998
DL = 196.2
BEC = 4178

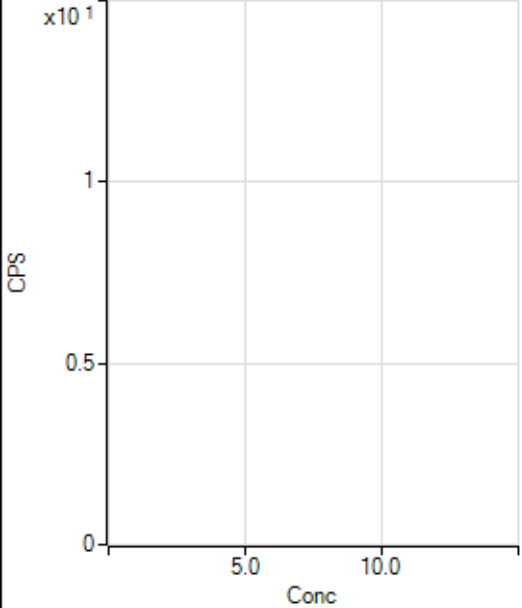
Weight: <None>
Min Conc: 0

35 Cl [No Gas] No available calibration points



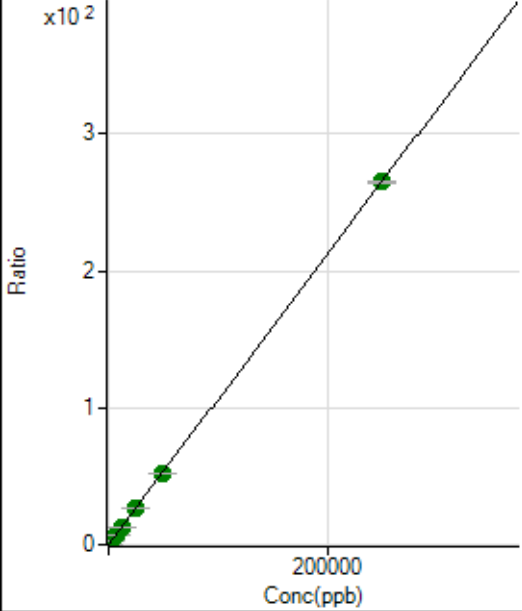
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

39 K [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	51499.00	0.0870	P	0.7
2	☐	500.000	550.087	400419.98	0.6692	P	0.1
3	☐	2500.000	2518.457	1637320.50	2.7525	A	2.0
4	☐	6250.000	6304.056	3887990.74	6.7593	A	0.7
5	☐	12500.000	12150.258	6494166.85	12.9470	A	0.8
6	☐	25000.000	24577.965	12632125.64	26.1007	A	0.4
7	☐	50000.000	48986.099	25315818.79	51.9346	A	0.6
8	☐	250000.00	250260.83	137548343.51	264.9669	A	0.3

$y = 0.0011 * x + 0.0870$

$R = 1.0000$

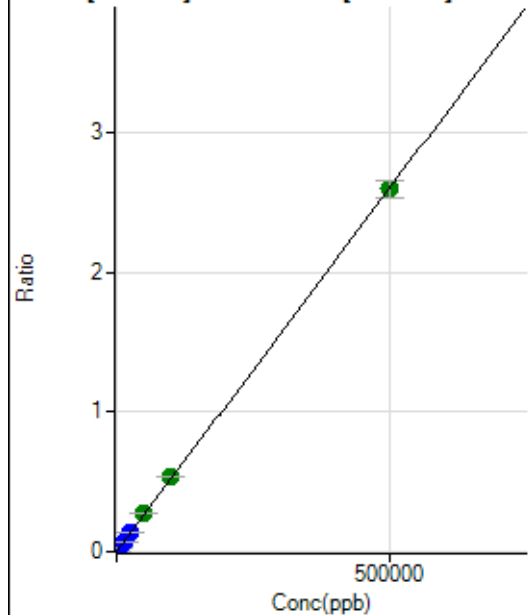
$DL = 1.604$

$BEC = 82.15$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	314.45	0.0000	P	13.1
2	☐	500.000	587.545	20450.52	0.0031	P	2.1
3	☐	5000.000	5443.947	189259.65	0.0284	P	0.2
4	☐	12500.000	13678.357	469954.87	0.0712	P	1.3
5	☐	25000.000	26526.710	864768.21	0.1381	P	2.4
6	☐	50000.000	52825.661	1532080.20	0.2749	A	2.8
7	☐	100000.00	102459.83	3014058.12	0.5332	A	0.6
8	☐	500000.00	499115.14	15152756.58	2.5972	A	5.0

$$y = 5.2034\text{E-}006 * x + 4.7351\text{E-}005$$

$$R = 1.0000$$

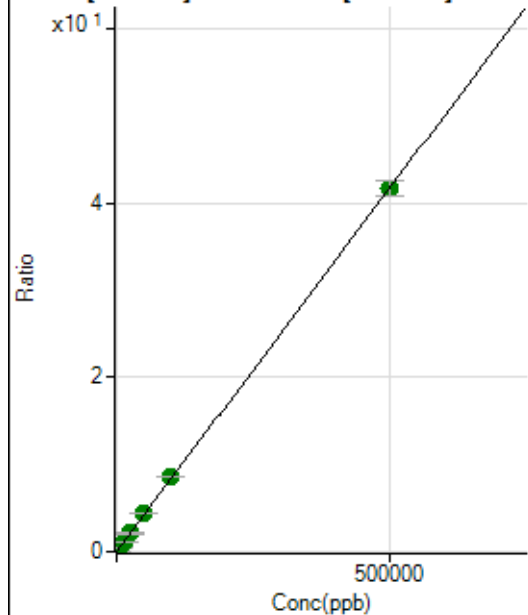
$$DL = 3.58$$

$$BEC = 9.1$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11684.60	0.0018	P	0.7
2	☐	500.000	586.291	333470.32	0.0506	P	1.2
3	☐	5000.000	5125.377	2860913.29	0.4289	A	0.8
4	☐	12500.000	12950.889	7134322.25	1.0811	A	0.1
5	☐	25000.000	25223.599	13178846.05	2.1040	A	1.9
6	☐	50000.000	52529.936	24407824.36	4.3798	A	2.7
7	☐	100000.00	102348.60	48229505.39	8.5319	A	0.5
8	☐	500000.00	499253.49	242823911.94	41.6114	A	4.4

$$y = 8.3344\text{E-}005 * x + 0.0018$$

$$R = 1.0000$$

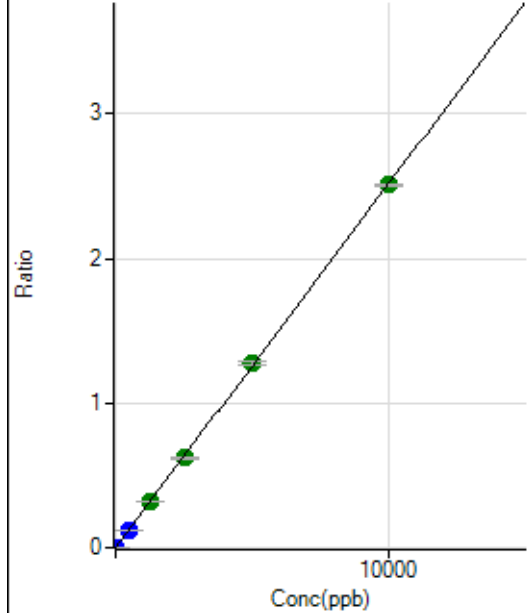
$$DL = 0.4546$$

$$BEC = 21.11$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD :45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	100.00	0.0000	P	11.6
2	☐	5.000	5.388	9024.99	0.0014	P	2.4
3	☐	500.000	501.054	840285.09	0.1260	P	0.3
4	☐	1250.000	1262.737	2094847.38	0.3175	A	0.9
5	☐	2500.000	2470.623	3889649.60	0.6211	A	2.8
6	☐	5000.000	5063.171	7094422.74	1.2729	A	2.2
7	☐	10000.000	9974.114	14174578.54	2.5075	A	0.4
8	☐			4023.92	0.0007	P	17.4

$$y = 2.5140E-004 * x + 1.5055E-005$$

$$R = 1.0000$$

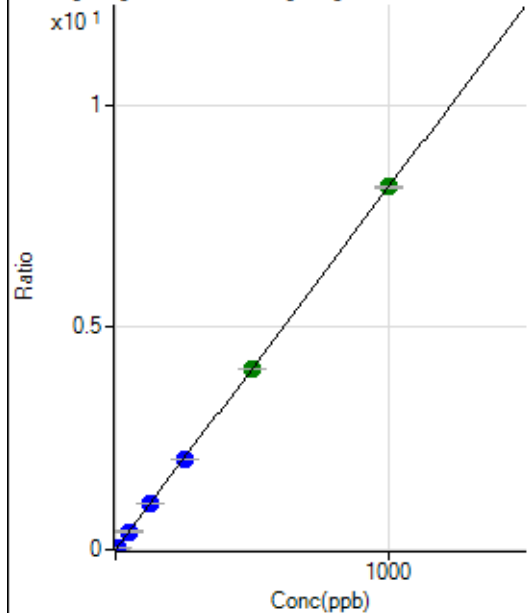
$$DL = 0.02078$$

$$BEC = 0.05989$$

Weight: <None>

Min Conc: 0

51 V [He] ISTD :45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	45.5
2	☐	5.000	5.431	26491.02	0.0443	P	0.3
3	☐	50.000	50.298	243796.96	0.4098	P	0.7
4	☐	125.000	127.486	597494.36	1.0388	P	1.0
5	☐	250.000	248.044	1013816.15	2.0211	P	0.2
6	☐	500.000	498.830	1967070.04	4.0644	A	0.6
7	☐	1000.000	1000.746	3974628.41	8.1540	A	0.7
8	☐			904.48	0.0017	P	4.9

$$y = 0.0081 * x + 1.8744E-005$$

$$R = 1.0000$$

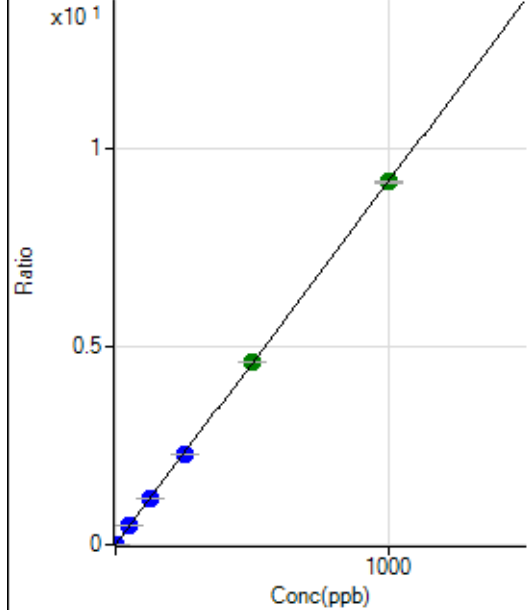
$$DL = 0.003143$$

$$BEC = 0.0023$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1567.87	0.0026	P	1.9
2	☐	2.000	2.192	13612.89	0.0227	P	1.9
3	☐	50.000	50.715	278220.19	0.4677	P	1.3
4	☐	125.000	128.183	677647.26	1.1781	P	0.7
5	☐	250.000	249.059	1146964.14	2.2866	P	0.3
6	☐	500.000	501.646	2227665.99	4.6028	A	0.1
7	☐	1000.000	998.978	4466704.21	9.1634	A	0.5
8	☐			7403.18	0.0143	P	2.6

$$y = 0.0092 * x + 0.0026$$

$$R = 1.0000$$

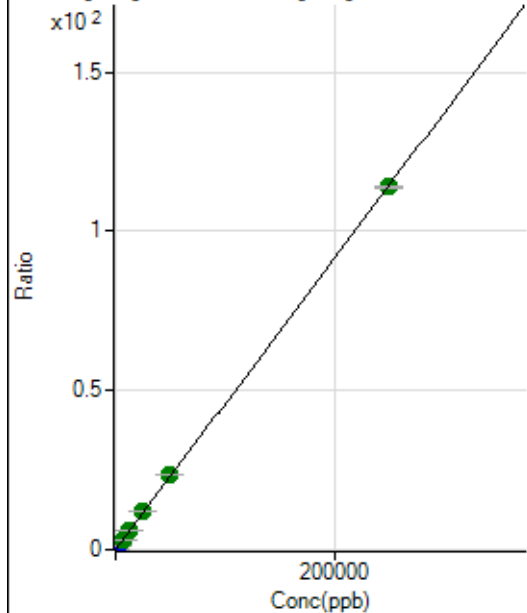
$$DL = 0.01602$$

$$BEC = 0.2887$$

Weight: <None>

Min Conc: 0

54 Fe [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2503.57	0.0042	P	2.7
2	☐	50.000	60.076	18954.26	0.0317	P	1.1
3	☐	2500.000	2691.404	733985.63	1.2339	P	0.8
4	☐	6250.000	6647.884	1749468.41	3.0415	A	1.2
5	☐	12500.000	13027.820	2987924.44	5.9564	A	0.6
6	☐	25000.000	26133.002	5780691.58	11.9440	A	0.8
7	☐	50000.000	51748.608	11526849.41	23.6473	A	0.5
8	☐	250000.00	249498.72	59176762.45	113.9961	A	0.6

$$y = 4.5688E-004 * x + 0.0042$$

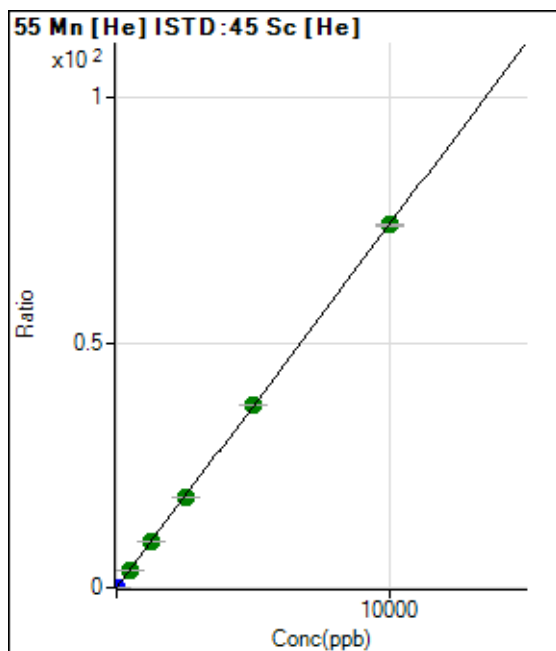
$$R = 1.0000$$

$$DL = 0.7513$$

$$BEC = 9.253$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	262.23	0.0004	P	9.6
2	☐	1.000	1.105	5166.49	0.0086	P	4.1
3	☐	500.000	497.267	2193194.03	3.6869	A	0.6
4	☐	1250.000	1259.459	5370900.75	9.3373	A	0.8
5	☐	2500.000	2497.757	9288500.77	18.5174	A	0.5
6	☐	5000.000	5028.939	18043984.04	37.2821	A	0.5
7	☐	10000.000	9985.046	36083213.90	74.0238	A	0.7
8	☐			17960.17	0.0346	P	9.5

$$y = 0.0074 * x + 4.4277E-004$$

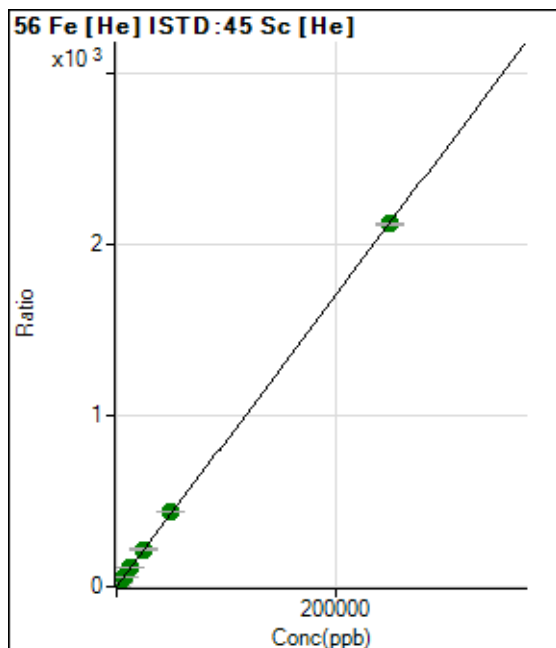
$$R = 1.0000$$

$$DL = 0.01718$$

$$BEC = 0.05972$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20023.41	0.0338	P	0.9
2	☐	50.000	56.467	307187.22	0.5134	P	0.5
3	☐	2500.000	2557.956	12942913.00	21.7579	A	0.7
4	☐	6250.000	6498.422	31765592.86	55.2234	A	1.1
5	☐	12500.000	12779.640	54460526.97	108.5684	A	0.6
6	☐	25000.000	25770.815	105943836.20	218.8995	A	0.6
7	☐	50000.000	51346.411	212583070.17	436.1072	A	0.7
8	☐	250000.00	249632.86	1100580036.9	2,120.109	A	0.2

$$y = 0.0085 * x + 0.0338$$

$$R = 1.0000$$

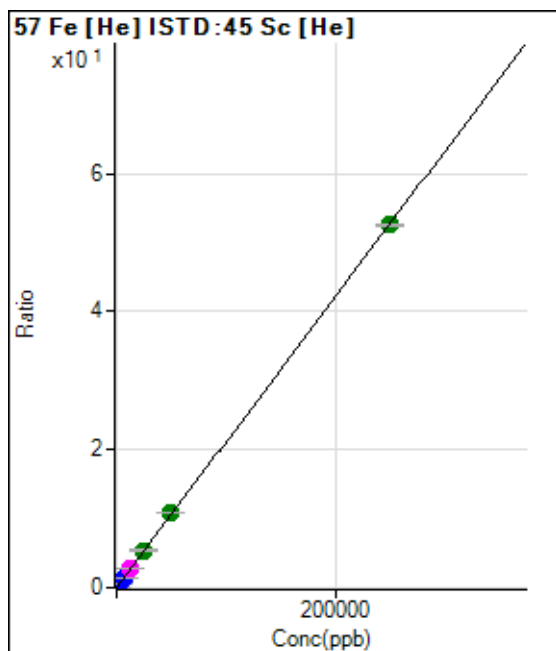
$$DL = 0.1113$$

$$BEC = 3.981$$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	916.71	0.0015	P	5.2
2	☐	50.000	58.166	8252.32	0.0138	P	2.3
3	☐	2500.000	2632.356	330526.62	0.5556	P	0.5
4	☐	6250.000	6643.138	805198.64	1.3999	P	1.1
5	☐	12500.000	13011.322	1374445.87	2.7403	M	1.7
6	☐	25000.000	25791.527	2628201.58	5.4305	A	1.3
7	☐	50000.000	51152.350	5249196.13	10.7687	A	0.5
8	☐	250000.00	249653.65	27280362.09	52.5516	A	0.7

$$y = 2.1049E-004 * x + 0.0015$$

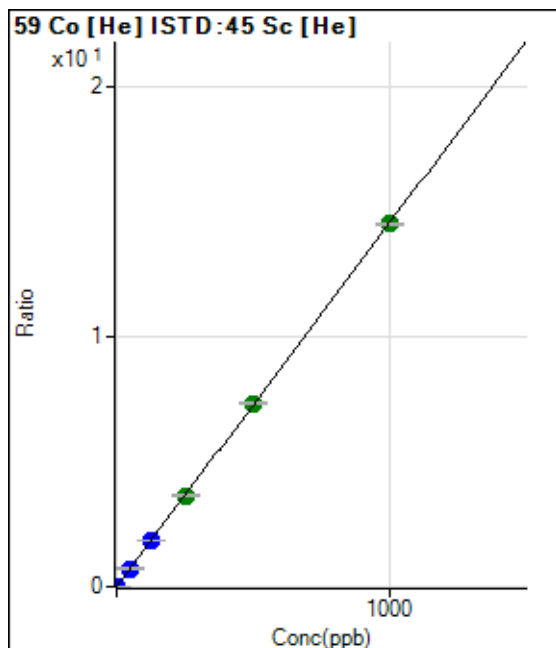
R = 1.0000

DL = 1.14

BEC = 7.353

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	112.22	0.0002	P	12.5
2	☐	1.000	1.138	10032.31	0.0168	P	1.0
3	☐	50.000	50.218	435327.46	0.7318	P	0.6
4	☐	125.000	126.742	1062210.56	1.8467	P	0.9
5	☐	250.000	250.994	1834407.14	3.6569	A	0.9
6	☐	500.000	503.762	3552153.70	7.3394	A	0.6
7	☐	1000.000	997.641	7084861.84	14.5347	A	0.6
8	☐			18961.01	0.0365	P	1.8

$$y = 0.0146 * x + 1.8955E-004$$

R = 1.0000

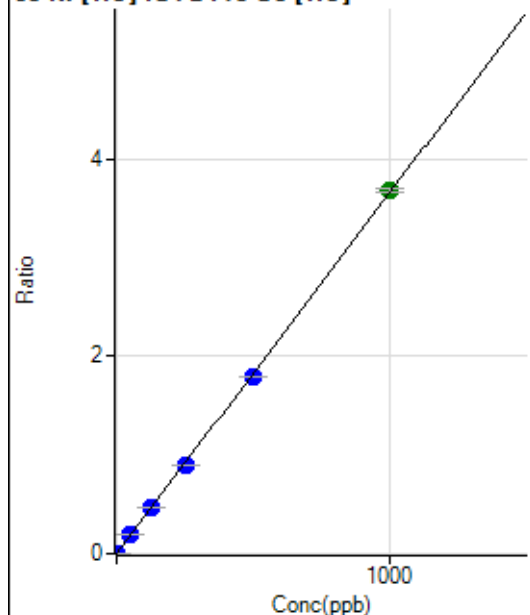
DL = 0.004884

BEC = 0.01301

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	398.90	0.0007	P	7.5
2	☐	1.000	1.087	2782.51	0.0046	P	6.6
3	☐	50.000	50.954	111266.28	0.1870	P	0.8
4	☐	125.000	128.045	269780.06	0.4690	P	0.7
5	☐	250.000	246.718	453002.69	0.9031	P	0.4
6	☐	500.000	489.451	866767.63	1.7909	P	0.3
7	☐	1000.000	1005.667	1793400.28	3.6791	A	1.2
8	☐			6426.99	0.0124	P	2.7

$$y = 0.0037 * x + 6.7336E-004$$

$$R = 0.9999$$

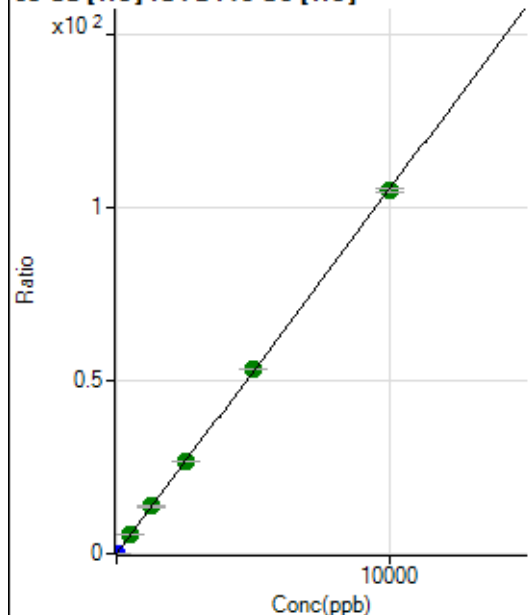
$$DL = 0.04162$$

$$BEC = 0.1841$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	733.36	0.0012	P	1.6
2	☐	2.000	2.075	13805.34	0.0231	P	1.4
3	☐	500.000	522.393	3270862.21	5.4986	A	1.1
4	☐	1250.000	1300.955	7874730.16	13.6918	A	2.0
5	☐	2500.000	2534.439	13379105.36	26.6723	A	0.7
6	☐	5000.000	5065.681	25800506.28	53.3097	A	0.6
7	☐	10000.000	9951.061	51045819.79	104.7207	A	0.9
8	☐			10493.76	0.0202	P	6.7

$$y = 0.0105 * x + 0.0012$$

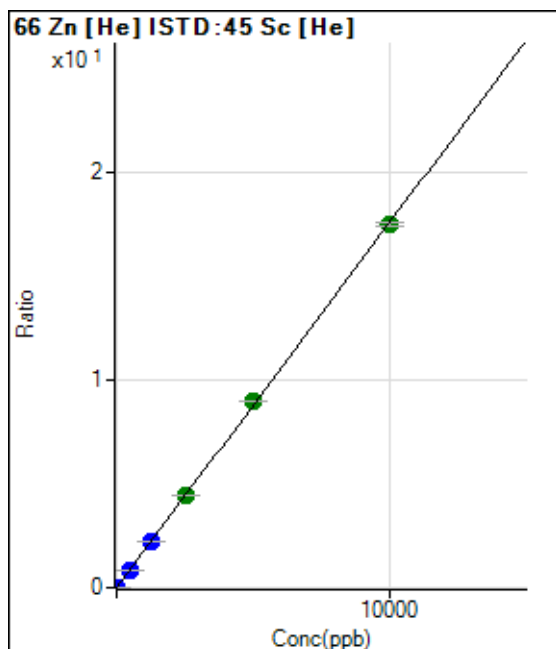
$$R = 1.0000$$

$$DL = 0.005674$$

$$BEC = 0.1177$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	245.56	0.0004	P	10.7
2	☐	5.000	5.403	5920.12	0.0099	P	3.1
3	☐	500.000	494.481	516305.88	0.8680	P	1.1
4	☐	1250.000	1252.271	1263976.50	2.1975	P	0.8
5	☐	2500.000	2538.916	2234460.90	4.4548	A	1.1
6	☐	5000.000	5100.369	4331003.72	8.9488	A	0.2
7	☐	10000.000	9940.078	8501006.68	17.4398	A	1.1
8	☐			6474.79	0.0125	P	1.4

$$y = 0.0018 * x + 4.1474E-004$$

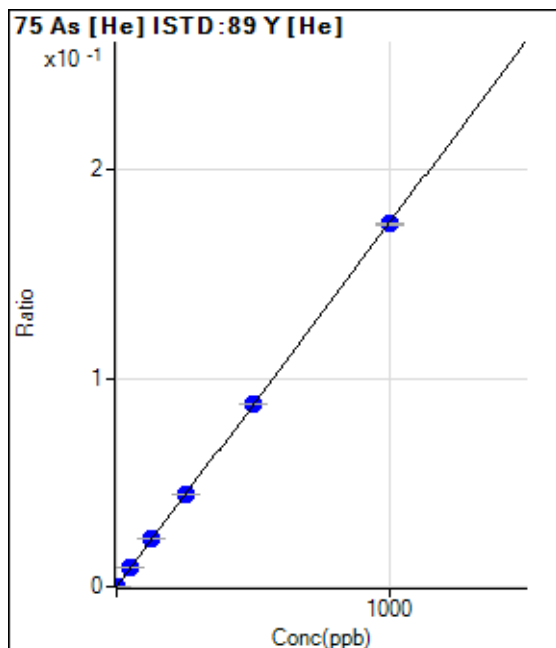
R = 0.9999

DL = 0.07555

BEC = 0.2364

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	92.2
2	☐	1.000	1.134	771.14	0.0002	P	6.3
3	☐	50.000	53.752	35423.32	0.0094	P	0.6
4	☐	125.000	133.814	86966.01	0.0234	P	0.5
5	☐	250.000	254.727	148978.87	0.0445	P	0.5
6	☐	500.000	501.218	288340.05	0.0875	P	0.5
7	☐	1000.000	996.920	573343.30	0.1741	P	0.3
8	☐			357.79	0.0001	P	9.1

$$y = 1.7464E-004 * x + 2.9089E-006$$

R = 1.0000

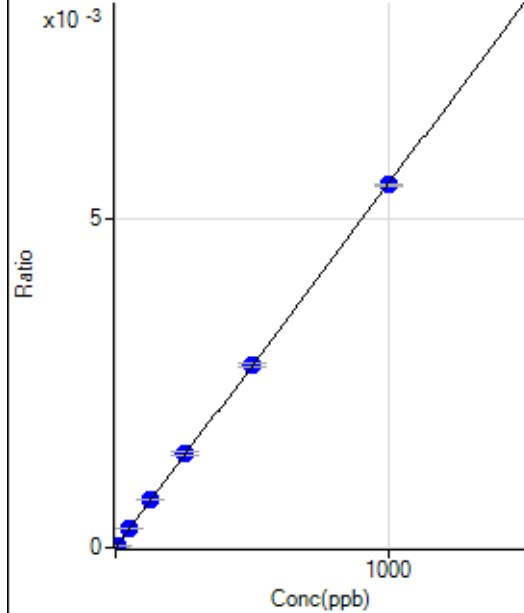
DL = 0.04605

BEC = 0.01666

Weight: <None>

Min Conc: 0

77 Se [He] ISTD:89 Y [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3.33	0.0000	P	173.
2	☐	5.000	6.137	133.34	0.0000	P	7.5
3	☐	50.000	53.167	1110.05	0.0003	P	6.8
4	☐	125.000	130.751	2689.16	0.0007	P	1.0
5	☐	250.000	258.154	4774.15	0.0014	P	3.1
6	☐	500.000	500.892	9110.64	0.0028	P	2.0
7	☐	1000.000	996.633	18120.05	0.0055	P	0.7
8	☐			2.22	0.0000	P	86.6

$$y = 5.5204\text{E-}006 * x + 8.6202\text{E-}007$$

$$R = 1.0000$$

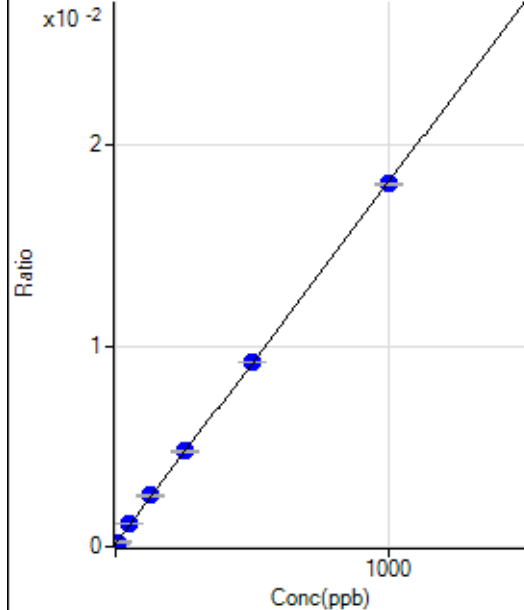
$$DL = 0.8114$$

$$BEC = 0.1562$$

Weight: <None>

Min Conc: 0

78 Se [He] ISTD:89 Y [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	527.79	0.0001	P	17.4
2	☐	5.000	5.028	877.81	0.0002	P	10.6
3	☐	50.000	54.345	4217.30	0.0011	P	2.6
4	☐	125.000	134.794	9556.51	0.0026	P	3.1
5	☐	250.000	256.046	15925.32	0.0048	P	1.8
6	☐	500.000	504.263	30406.78	0.0092	P	0.2
7	☐	1000.000	994.916	59534.62	0.0181	P	0.3
8	☐			393.34	0.0001	P	3.4

$$y = 1.8033\text{E-}005 * x + 1.3803\text{E-}004$$

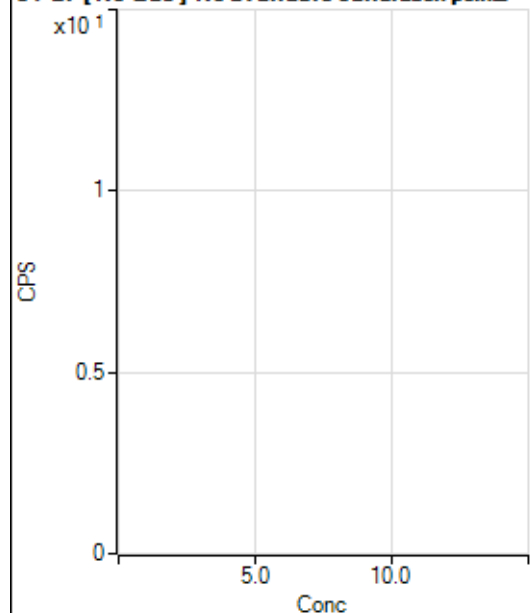
$$R = 0.9999$$

$$DL = 4.003$$

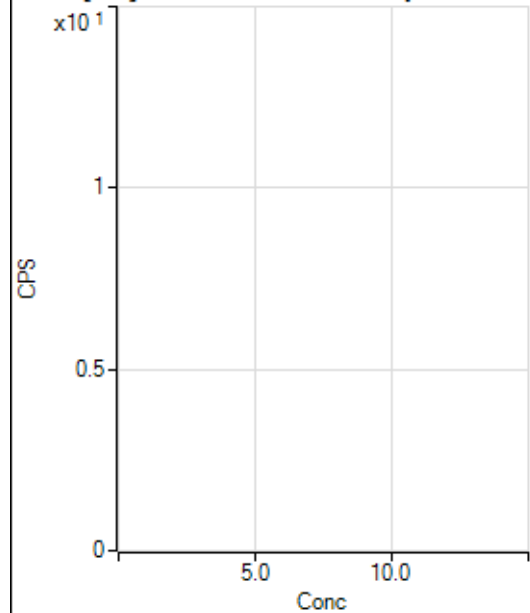
$$BEC = 7.654$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

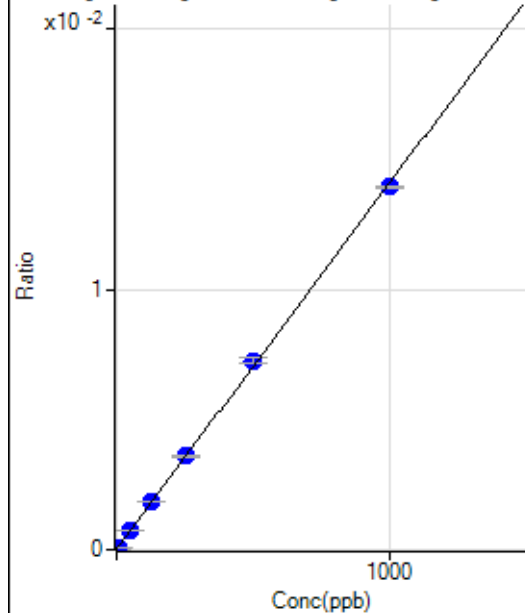
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15671.74		P	1.2
2	☐			15380.34		P	2.8
3	☐			15245.75		P	2.6
4	☐			15280.22		P	0.7
5	☐			13510.72		P	2.0
6	☐			11581.28		P	1.9
7	☐			11748.10		P	1.5
8	☐			12931.30		P	2.6

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			183.34		P	10.9
2	☐			177.78		P	7.6
3	☐			177.78		P	6.6
4	☐			162.22		P	6.6
5	☐			126.67		P	16.0
6	☐			120.00		P	12.1
7	☐			91.11		P	26.0
8	☐			152.22		P	13.9

Calibration for 011CAL.S.d

82 Se [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	182.27	0.0000	P	7.5
2	☐	5.000	5.558	1266.46	0.0001	P	2.6
3	☐	50.000	52.248	10443.85	0.0007	P	1.4
4	☐	125.000	131.768	25953.74	0.0019	P	0.9
5	☐	250.000	254.426	47552.65	0.0036	P	2.6
6	☐	500.000	516.089	87623.98	0.0073	P	3.3
7	☐	1000.000	989.888	171104.76	0.0139	P	0.4
8	☐			329.06	0.0000	P	4.8

$$y = 1.4064E-005 * x + 1.3125E-005$$

$$R = 0.9998$$

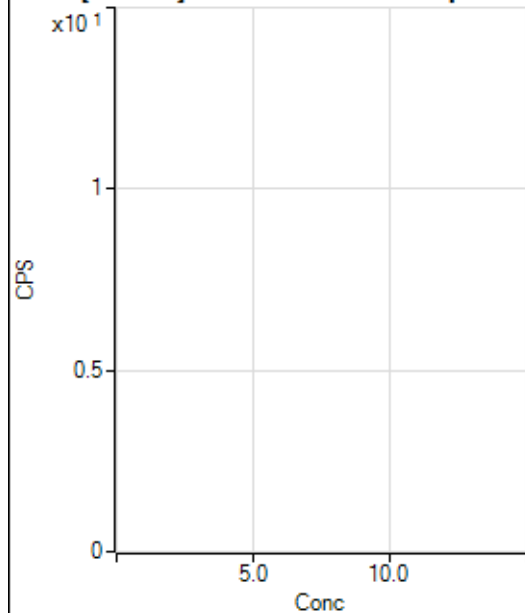
$$DL = 0.2095$$

$$BEC = 0.9332$$

Weight: <None>

Min Conc: 0

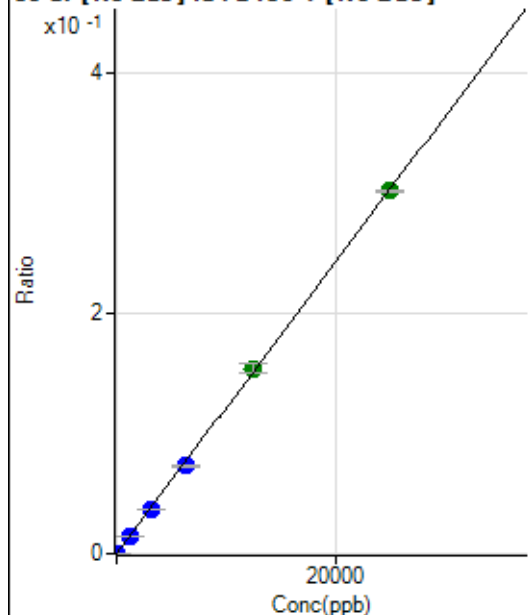
83 Kr [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			258.89		P	12.7
2	☐			223.34		P	14.2
3	☐			226.67		P	1.5
4	☐			235.56		P	14.2
5	☐			207.78		P	14.6
6	☐			207.78		P	25.0
7	☐			212.23		P	4.8
8	☐			235.56		P	10.6

Calibration for 011CALS.d

86 Sr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	464.46	0.0000	P	15.8
2	☐	1.000	25.848	4801.93	0.0003	P	3.1
3	☐	1250.000	1233.482	208867.66	0.0150	P	0.5
4	☐	3125.000	3091.355	520635.86	0.0374	P	0.2
5	☐	6250.000	6014.990	964042.26	0.0728	P	2.9
6	☐	12500.000	12749.833	1859013.60	0.1543	A	4.4
7	☐	25000.000	24938.866	3705524.77	0.3018	A	0.6
8	☐			11343.33	0.0009	P	4.2

$$y = 1.2100\text{E-}005 * x + 3.3422\text{E-}005$$

R = 0.9999

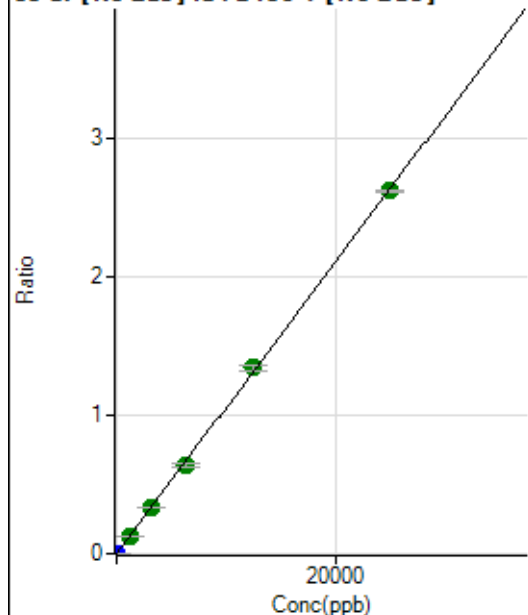
DL = 1.313

BEC = 2.762

Weight: <None>

Min Conc: 0

88 Sr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	343.34	0.0000	P	8.5
2	☐	1.000	26.554	39094.08	0.0028	P	1.3
3	☐	1250.000	1240.705	1822756.57	0.1305	A	1.2
4	☐	3125.000	3162.427	4626550.49	0.3327	A	0.9
5	☐	6250.000	6073.357	8461102.93	0.6389	A	2.3
6	☐	12500.000	12751.911	16165625.73	1.3415	A	3.1
7	☐	25000.000	24913.991	32180308.69	2.6209	A	0.6
8	☐			97916.53	0.0080	P	1.5

$$y = 1.0520\text{E-}004 * x + 2.4720\text{E-}005$$

R = 0.9999

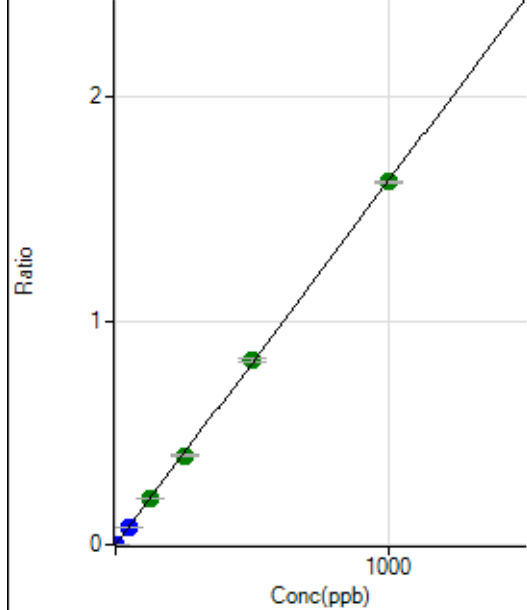
DL = 0.06011

BEC = 0.235

Weight: <None>

Min Conc: 0

90 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	666.69	0.0000	P	12.4
2	☐	1.000	1.026	23802.67	0.0017	P	0.4
3	☐	50.000	48.778	1107548.40	0.0793	P	0.5
4	☐	125.000	125.182	2829620.93	0.2035	A	1.6
5	☐	250.000	245.408	5281868.04	0.3989	A	2.4
6	☐	500.000	508.006	9951248.81	0.8256	A	2.1
7	☐	1000.000	997.183	19898436.79	1.6206	A	0.7
8	☐			14686.33	0.0012	P	5.8

$$y = 0.0016 * x + 4.8023E-005$$

$$R = 0.9999$$

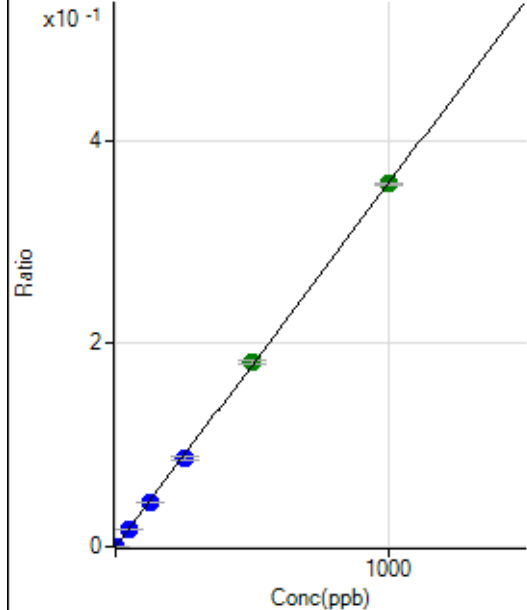
$$DL = 0.01096$$

$$BEC = 0.02955$$

Weight: <None>

Min Conc: 0

91 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	134.45	0.0000	P	28.3
2	☐	1.000	1.034	5259.88	0.0004	P	4.1
3	☐	50.000	49.431	246845.03	0.0177	P	1.3
4	☐	125.000	124.087	616951.41	0.0444	P	0.4
5	☐	250.000	242.998	1150076.40	0.0869	P	3.1
6	☐	500.000	506.851	2183925.63	0.1812	A	1.8
7	☐	1000.000	998.468	4382250.94	0.3569	A	0.9
8	☐			3252.61	0.0003	P	6.9

$$y = 3.5745E-004 * x + 9.6958E-006$$

$$R = 0.9999$$

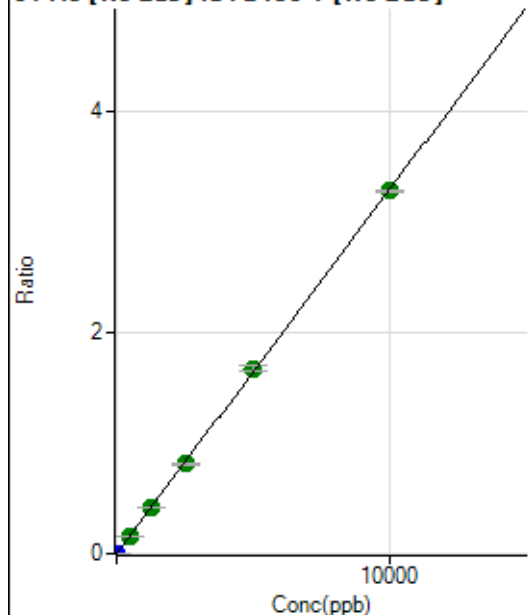
$$DL = 0.02303$$

$$BEC = 0.02712$$

Weight: <None>

Min Conc: 0

94 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	341.12	0.0000	P	3.8
2	☐	5.000	6.201	28619.10	0.0021	P	3.0
3	☐	500.000	499.152	2291813.37	0.1641	A	0.7
4	☐	1250.000	1258.738	5755325.47	0.4139	A	0.6
5	☐	2500.000	2459.207	10705659.91	0.8086	A	3.1
6	☐	5000.000	5086.625	20155013.87	1.6724	A	2.7
7	☐	10000.000	9965.835	40231511.90	3.2766	A	0.6
8	☐			15205.88	0.0012	P	13.0

$$y = 3.2878E-004 * x + 2.4559E-005$$

R = 0.9999

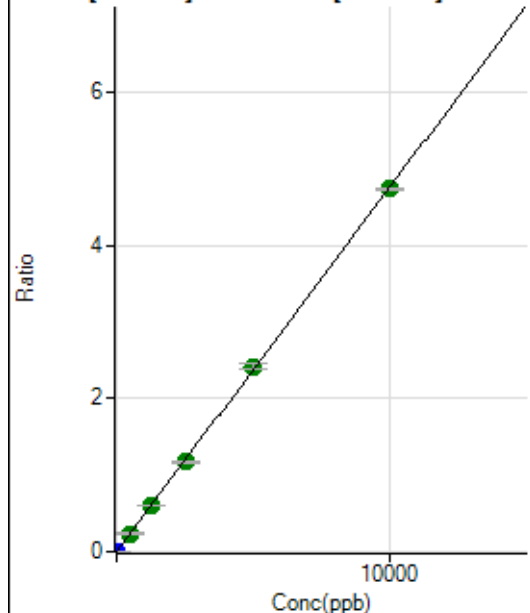
DL = 0.008426

BEC = 0.0747

Weight: <None>

Min Conc: 0

95 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	156.67	0.0000	P	3.3
2	☐	5.000	5.185	34360.28	0.0025	P	1.2
3	☐	500.000	499.077	3313653.67	0.2373	A	1.5
4	☐	1250.000	1254.380	8294689.25	0.5965	A	0.5
5	☐	2500.000	2467.886	15537025.74	1.1735	A	3.1
6	☐	5000.000	5083.154	29127958.46	2.4171	A	2.9
7	☐	10000.000	9965.950	58185831.91	4.7388	A	0.7
8	☐			16300.58	0.0013	P	18.7

$$y = 4.7550E-004 * x + 1.1277E-005$$

R = 0.9999

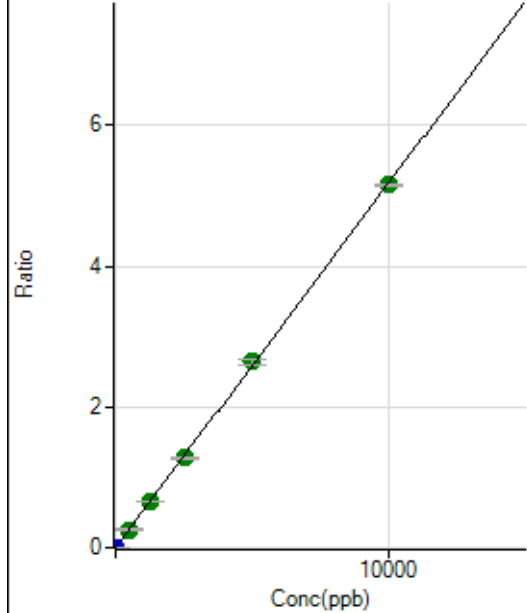
DL = 0.002336

BEC = 0.02372

Weight: <None>

Min Conc: 0

96 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	260.00	0.0000	P	8.3
2	☐	5.000	5.372	38840.33	0.0028	P	2.3
3	☐	500.000	499.862	3613911.37	0.2588	A	1.3
4	☐	1250.000	1264.473	9104699.17	0.6547	A	0.6
5	☐	2500.000	2468.137	16920377.80	1.2779	A	3.0
6	☐	5000.000	5094.899	31786878.14	2.6380	A	3.5
7	☐	10000.000	9958.714	63311186.84	5.1562	A	0.4
8	☐			28398.00	0.0023	P	11.6

$$y = 5.1776E-004 * x + 1.8709E-005$$

$$R = 0.9999$$

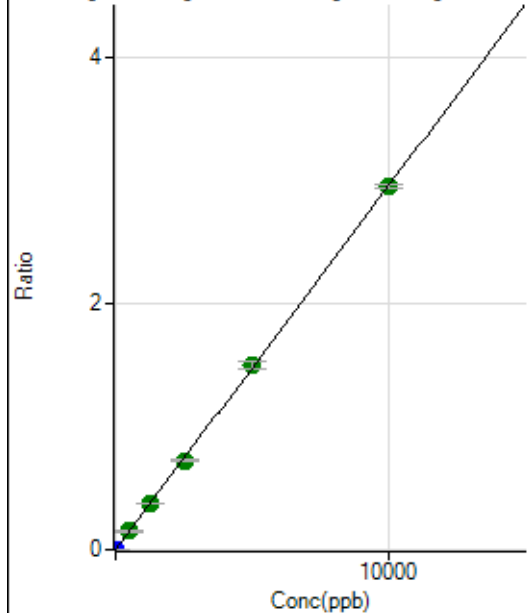
$$DL = 0.008997$$

$$BEC = 0.03613$$

Weight: <None>

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	97.78	0.0000	P	10.8
2	☐	5.000	5.277	21708.40	0.0016	P	0.6
3	☐	500.000	502.604	2071773.96	0.1484	A	1.0
4	☐	1250.000	1254.935	5151704.85	0.3705	A	1.3
5	☐	2500.000	2448.491	9569060.14	0.7228	A	3.3
6	☐	5000.000	5073.847	18047362.51	1.4978	A	3.8
7	☐	10000.000	9975.206	36156090.01	2.9447	A	1.1
8	☐			9999.13	0.0008	P	16.0

$$y = 2.9520E-004 * x + 7.0385E-006$$

$$R = 0.9999$$

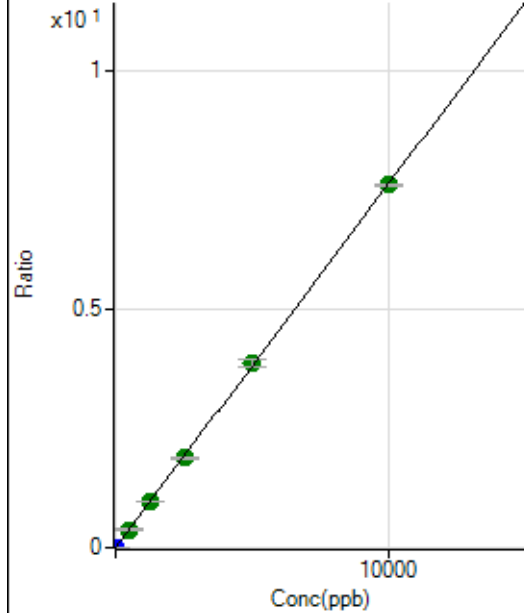
$$DL = 0.007726$$

$$BEC = 0.02384$$

Weight: <None>

Min Conc: 0

98 Mo [No Gas] ISTD: 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	252.23	0.0000	P	9.5
2	☐	5.000	5.203	55359.96	0.0040	P	1.0
3	☐	500.000	498.475	5314070.79	0.3806	A	1.8
4	☐	1250.000	1255.829	13333659.94	0.9588	A	0.7
5	☐	2500.000	2460.325	24869089.91	1.8785	A	3.2
6	☐	5000.000	5073.166	46673103.75	3.8733	A	3.5
7	☐	10000.000	9972.683	93488689.72	7.6141	A	0.8
8	☐			25282.50	0.0021	P	17.2

$$y = 7.6349E-004 * x + 1.8157E-005$$

$$R = 1.0000$$

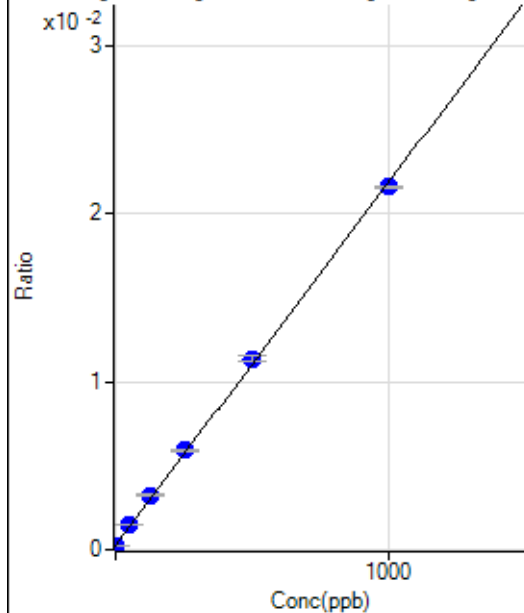
$$DL = 0.00681$$

$$BEC = 0.02378$$

Weight: <None>

Min Conc: 0

106 Cd [No Gas] ISTD: 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3512.68	0.0002	P	1.4
2	☐	1.000	1.081	3820.55	0.0003	P	5.5
3	☐	50.000	56.224	21159.92	0.0015	P	2.4
4	☐	125.000	139.462	47228.73	0.0033	P	0.6
5	☐	250.000	261.807	84091.52	0.0059	P	2.3
6	☐	500.000	514.259	153930.91	0.0114	P	3.1
7	☐	1000.000	987.800	298585.78	0.0216	P	0.8
8	☐			3122.59	0.0002	P	3.6

$$y = 2.1618E-005 * x + 2.4610E-004$$

$$R = 0.9997$$

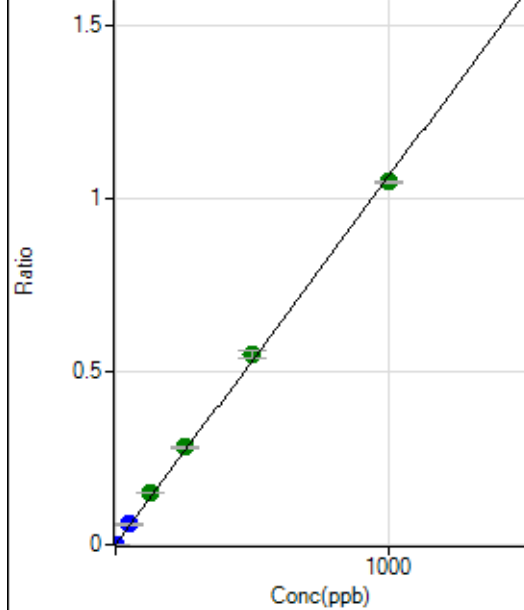
$$DL = 0.4883$$

$$BEC = 11.38$$

Weight: <None>

Min Conc: 0

107 Ag [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	82.22	0.0000	P	25.9
2	☐	1.000	1.141	17289.25	0.0012	P	1.1
3	☐	50.000	54.979	846906.39	0.0585	P	1.0
4	☐	125.000	139.692	2152307.23	0.1486	A	0.7
5	☐	250.000	265.355	4019862.02	0.2823	A	1.9
6	☐	500.000	517.280	7453121.21	0.5503	A	4.0
7	☐	1000.000	985.436	14491065.76	1.0483	A	0.4
8	☐			3931.70	0.0003	P	17.3

$$y = 0.0011 * x + 5.7617E-006$$

$$R = 0.9996$$

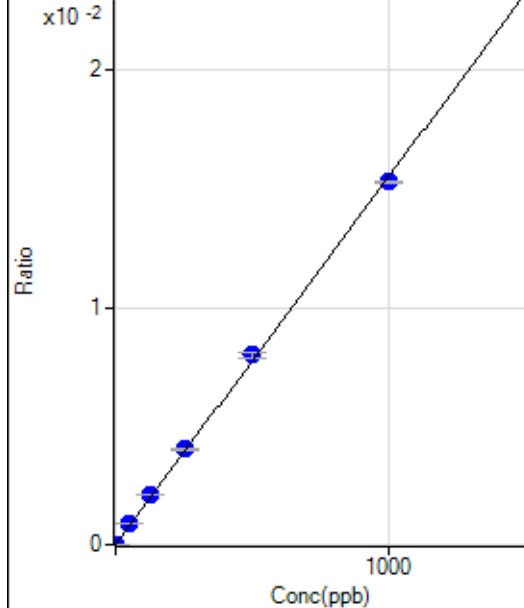
$$DL = 0.004201$$

$$BEC = 0.005416$$

Weight: <None>

Min Conc: 0

108 Cd [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	10.00	0.0000	P	32.9
2	☐	1.000	1.073	245.56	0.0000	P	23.3
3	☐	50.000	55.646	12489.89	0.0009	P	1.8
4	☐	125.000	138.112	30995.32	0.0021	P	0.2
5	☐	250.000	260.915	57561.37	0.0040	P	1.9
6	☐	500.000	516.741	108447.81	0.0080	P	2.9
7	☐	1000.000	986.980	211351.12	0.0153	P	0.6
8	☐			117.78	0.0000	P	28.8

$$y = 1.5490E-005 * x + 7.0001E-007$$

$$R = 0.9997$$

$$DL = 0.04463$$

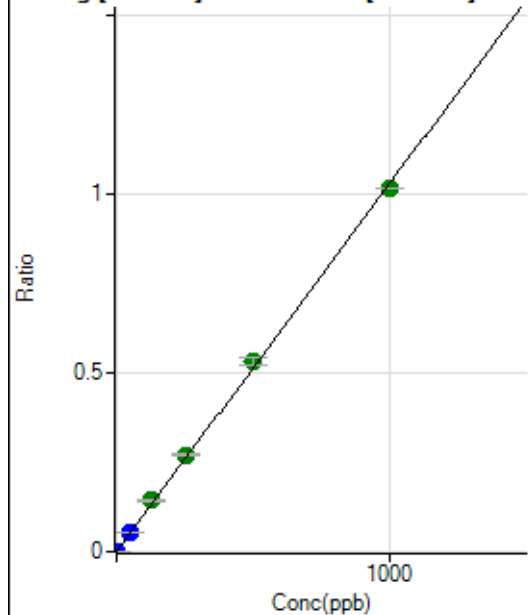
$$BEC = 0.04519$$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d

109 Ag [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	53.33	0.0000	P	25.2
2	☐	1.000	1.146	16756.42	0.0012	P	3.1
3	☐	50.000	53.922	802658.53	0.0554	P	1.2
4	☐	125.000	139.727	2080399.24	0.1436	A	2.1
5	☐	250.000	263.396	3856258.48	0.2708	A	1.3
6	☐	500.000	516.525	7192360.45	0.5310	A	3.6
7	☐	1000.000	986.352	14016827.01	1.0140	A	0.1
8	☐			3720.54	0.0003	P	16.0

$$y = 0.0010 * x + 3.7384E-006$$

$$R = 0.9996$$

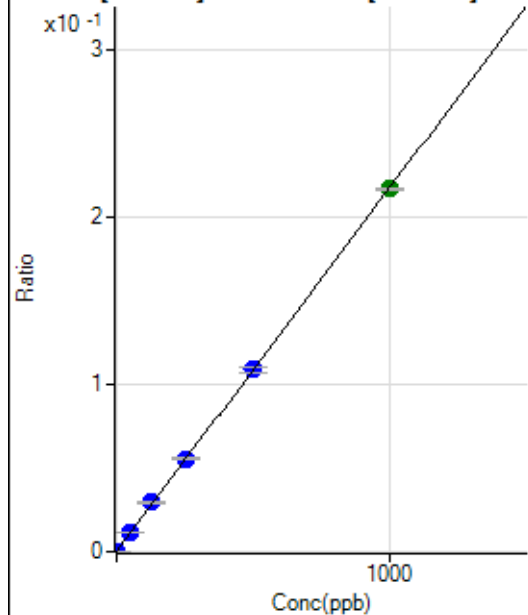
$$DL = 0.002752$$

$$BEC = 0.003636$$

Weight: <None>

Min Conc: 0

111 Cd [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2467.43	0.0002	P	1.3
2	☐	1.000	1.196	6127.43	0.0004	P	2.0
3	☐	50.000	53.837	171565.86	0.0118	P	1.3
4	☐	125.000	134.238	424185.30	0.0293	P	0.8
5	☐	250.000	253.431	785150.91	0.0551	P	2.2
6	☐	500.000	500.511	1472970.22	0.1087	P	2.9
7	☐	1000.000	997.540	2993167.45	0.2165	A	0.5
8	☐			2957.84	0.0002	P	1.0

$$y = 2.1689E-004 * x + 1.7287E-004$$

$$R = 1.0000$$

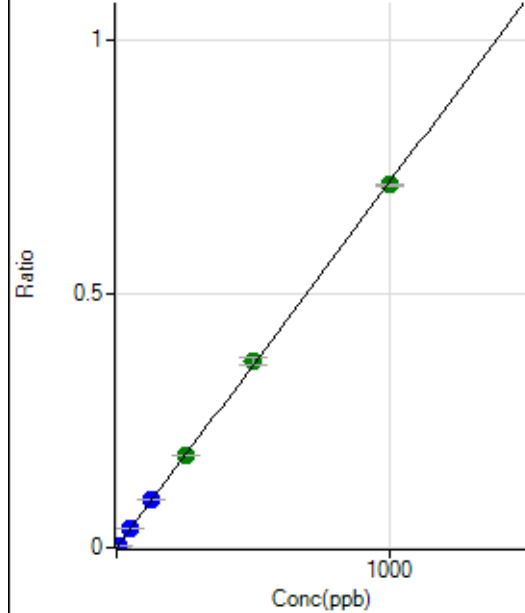
$$DL = 0.03124$$

$$BEC = 0.797$$

Weight: <None>

Min Conc: 0

118 Sn [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1402.30	0.0001	P	5.3
2	☐	5.000	5.632	58819.27	0.0041	P	0.8
3	☐	50.000	51.664	539364.34	0.0373	P	1.2
4	☐	125.000	129.293	1348071.49	0.0931	P	0.3
5	☐	250.000	252.608	2588634.92	0.1818	A	1.4
6	☐	500.000	511.538	4983926.87	0.3680	A	3.7
7	☐	1000.000	992.956	9872287.08	0.7142	A	0.5
8	☐			5017.59	0.0004	P	8.5

$$y = 7.1915\text{E-}004 * x + 9.8256\text{E-}005$$

$$R = 0.9999$$

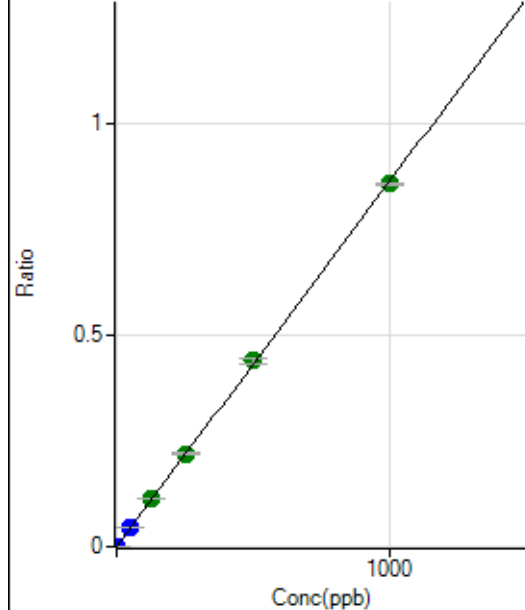
$$DL = 0.02175$$

$$BEC = 0.1366$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	23.33	0.0000	P	0.4
2	☐	2.000	2.227	27293.72	0.0019	P	2.0
3	☐	50.000	51.220	640689.40	0.0443	P	1.0
4	☐	125.000	132.452	1657237.93	0.1144	A	0.1
5	☐	250.000	254.397	3129205.16	0.2198	A	2.5
6	☐	500.000	508.852	5955041.02	0.4396	A	3.0
7	☐	1000.000	993.482	11864001.49	0.8583	A	0.7
8	☐			7154.07	0.0005	P	6.3

$$y = 8.6389\text{E-}004 * x + 1.6345\text{E-}006$$

$$R = 0.9999$$

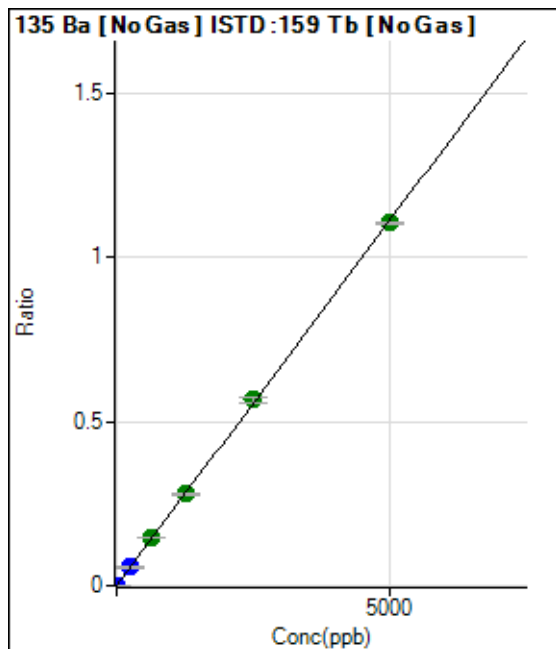
$$DL = 2.281\text{E-}05$$

$$BEC = 0.001892$$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	64.44	0.0000	P	29.3
2	☐	10.000	10.730	33896.95	0.0024	P	0.5
3	☐	250.000	251.001	808302.17	0.0558	P	0.8
4	☐	625.000	661.236	2129891.44	0.1471	A	0.9
5	☐	1250.000	1258.861	3986598.76	0.2800	A	2.1
6	☐	2500.000	2545.594	7668355.93	0.5661	A	3.5
7	☐	5000.000	4970.407	15279932.14	1.1054	A	0.5
8	☐			8074.60	0.0006	P	8.3

$$y = 2.2239E-004 * x + 4.5132E-006$$

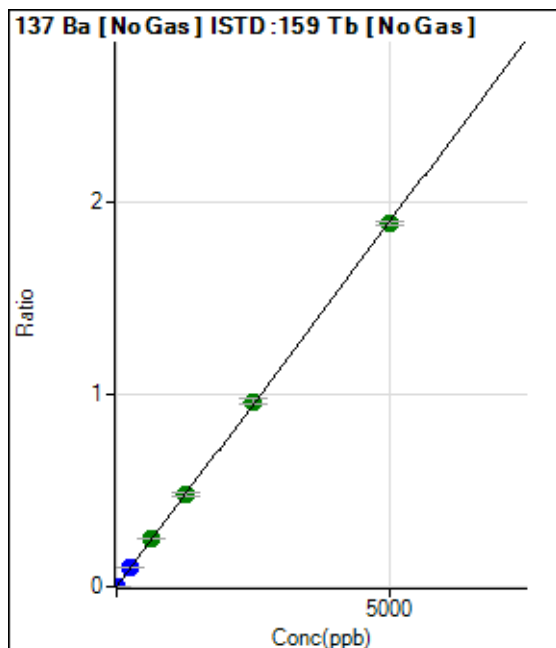
R = 0.9999

DL = 0.01783

BEC = 0.02029

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	115.56	0.0000	P	13.2
2	☐	10.000	10.887	58613.37	0.0041	P	0.6
3	☐	250.000	253.880	1393337.79	0.0962	P	0.9
4	☐	625.000	667.783	3665758.14	0.2531	A	0.7
5	☐	1250.000	1261.689	6808608.51	0.4782	A	2.7
6	☐	2500.000	2536.028	13020290.08	0.9612	A	3.3
7	☐	5000.000	4973.520	26056757.11	1.8850	A	1.1
8	☐			13873.55	0.0010	P	6.4

$$y = 3.7901E-004 * x + 8.0932E-006$$

R = 0.9999

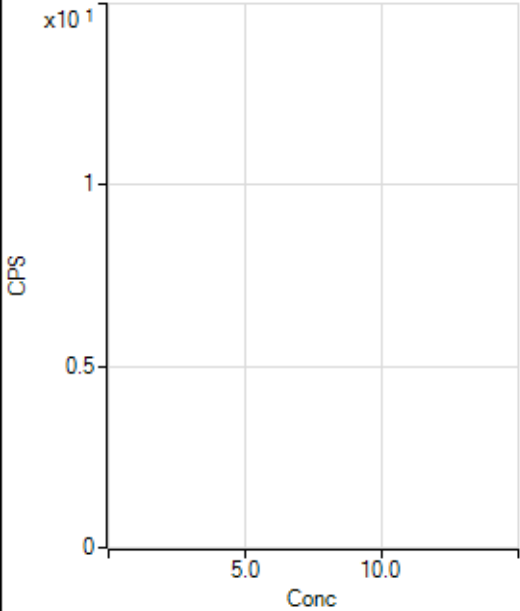
DL = 0.008466

BEC = 0.02135

Weight: <None>

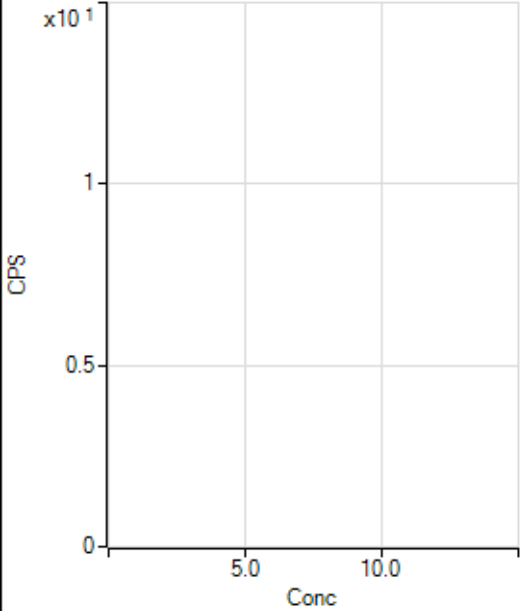
Min Conc: 0

150 Nd [No Gas] No available calibration points

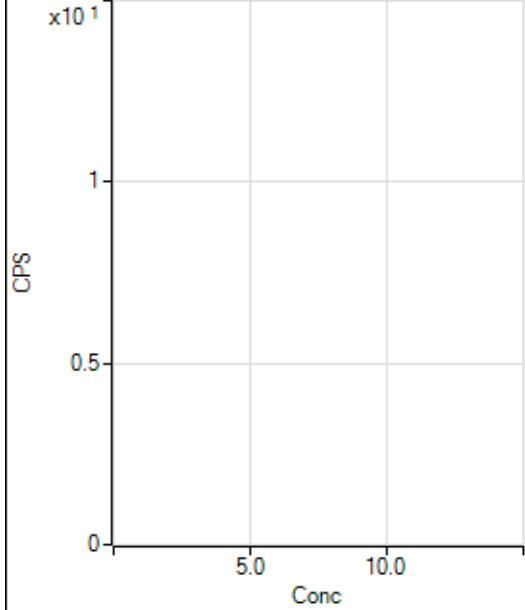


	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.
2	☐			10.00		P	0.0
3	☐			51.11		P	7.5
4	☐			101.11		P	21.2
5	☐			193.34		P	9.0
6	☐			330.01		P	11.6
7	☐			677.80		P	4.0
8	☐			245.56		P	14.5

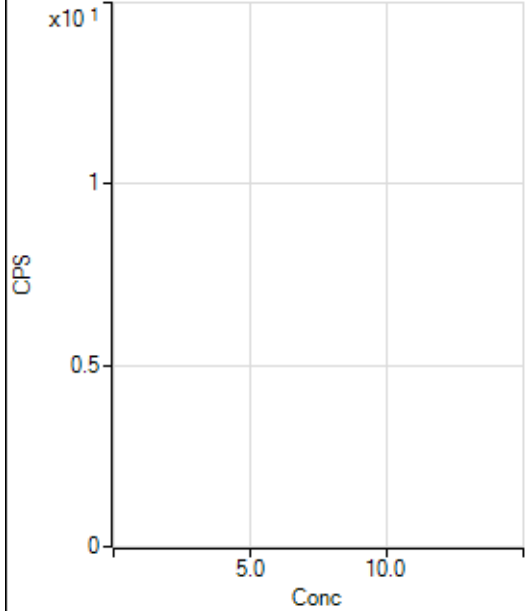
150 Nd [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			3.33		P	100.
3	☐			17.78		P	75.8
4	☐			24.44		P	34.3
5	☐			40.00		P	16.7
6	☐			83.33		P	17.4
7	☐			118.89		P	8.6
8	☐			155.56		P	14.3

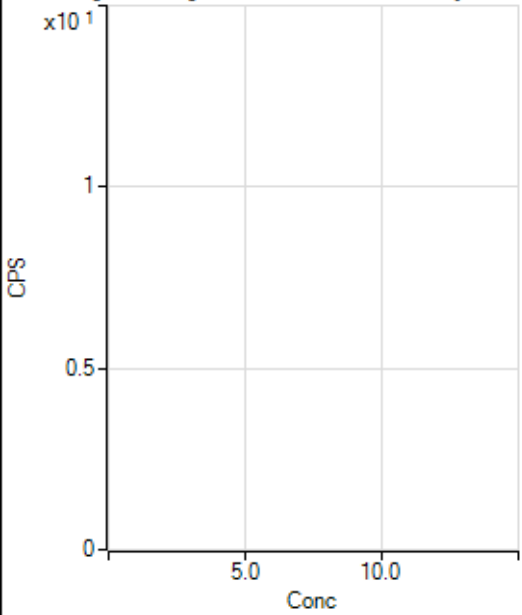
156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	10.8
2	☐			26.67		P	33.1
3	☐			37.78		P	13.5
4	☐			54.45		P	24.7
5	☐			80.00		P	16.7
6	☐			134.45		P	24.8
7	☐			222.23		P	8.3
8	☐			408.90		P	13.1

156 Dy [He] No available calibration points

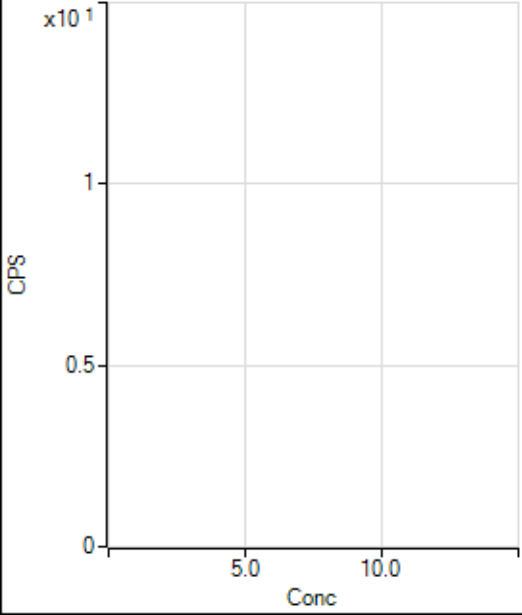
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			12.22		P	41.7
3	☐			47.78		P	8.1
4	☐			84.45		P	4.6
5	☐			125.56		P	25.1
6	☐			265.56		P	6.2
7	☐			587.79		P	2.4
8	☐			367.79		P	6.9

160 Gd [No Gas] Noavailable calibration poin...



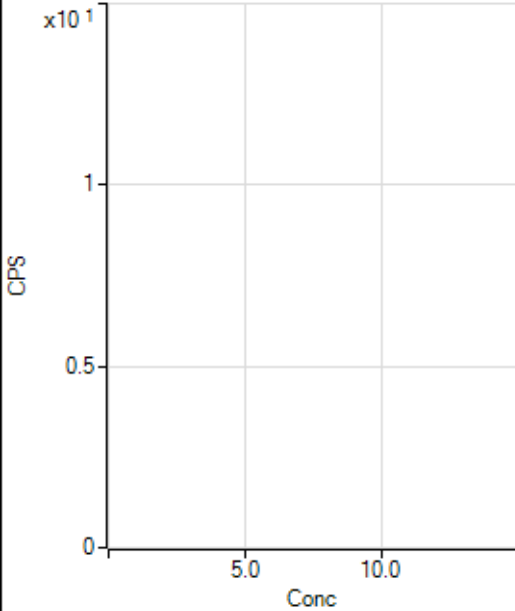
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71.11		P	28.6
2	☐			67.78		P	2.8
3	☐			54.44		P	9.4
4	☐			78.89		P	20.0
5	☐			84.44		P	16.4
6	☐			105.56		P	23.7
7	☐			188.89		P	11.7
8	☐			465.57		P	10.1

160 Gd [He] No available calibration points



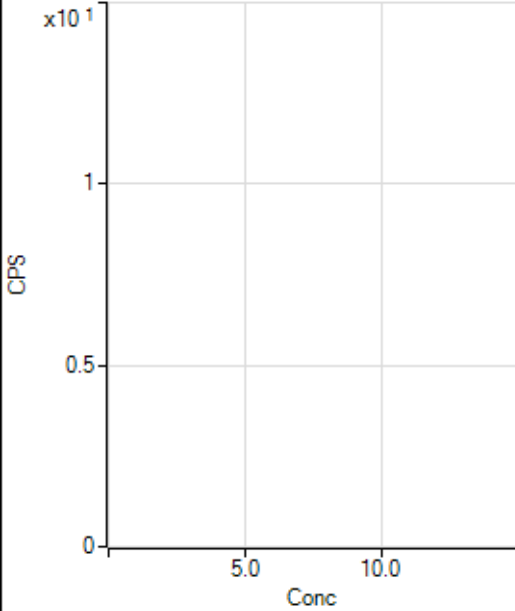
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			383.34		P	19.9
2	☐			377.79		P	13.4
3	☐			421.12		P	5.9
4	☐			408.90		P	16.8
5	☐			378.90		P	7.1
6	☐			402.23		P	5.0
7	☐			485.57		P	11.5
8	☐			711.14		P	9.8

164 Er [No Gas] No available calibration points



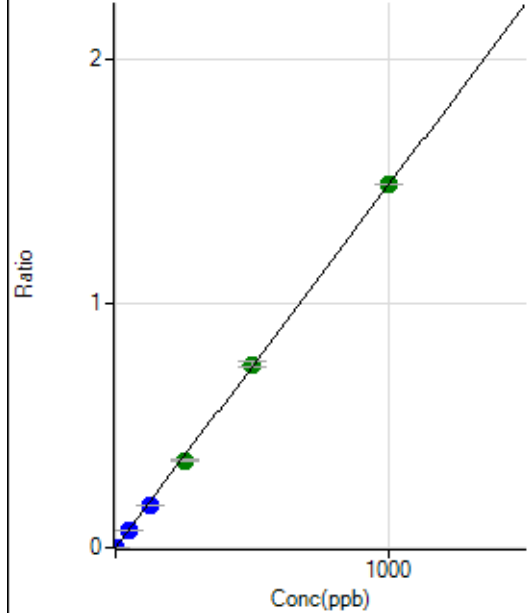
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	14.5
2	☐			50.00		P	24.0
3	☐			48.89		P	10.4
4	☐			71.11		P	11.8
5	☐			73.33		P	9.1
6	☐			111.11		P	20.0
7	☐			183.34		P	7.9
8	☐			500.02		P	10.5

164 Er [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.56		P	5.4
2	☐			46.67		P	7.1
3	☐			25.56		P	37.7
4	☐			42.22		P	40.5
5	☐			61.11		P	43.8
6	☐			97.78		P	20.8
7	☐			140.00		P	18.0
8	☐			336.67		P	6.9

203 Tl [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	276.67	0.0000	P	16.0
2	☐	1.000	0.969	11700.68	0.0015	P	2.1
3	☐	50.000	45.748	547882.63	0.0679	P	1.2
4	☐	125.000	114.755	1378979.17	0.1703	P	0.8
5	☐	250.000	240.659	2896712.53	0.3571	A	1.6
6	☐	500.000	505.822	5827649.71	0.7506	A	3.1
7	☐	1000.000	1000.917	11591823.99	1.4852	A	0.1
8	☐			2544.72	0.0004	P	16.3

$$y = 0.0015 * x + 3.5033E-005$$

$$R = 0.9999$$

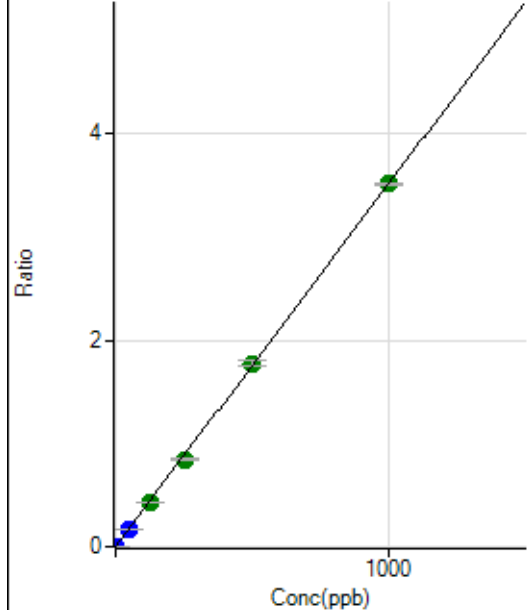
$$DL = 0.01135$$

$$BEC = 0.02361$$

Weight: <None>

Min Conc: 0

205 Tl [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	646.69	0.0001	P	3.4
2	☐	1.000	0.957	27347.53	0.0034	P	2.8
3	☐	50.000	45.329	1285368.32	0.1593	P	1.3
4	☐	125.000	123.654	3518330.50	0.4345	A	0.2
5	☐	250.000	240.778	6862042.95	0.8460	A	1.9
6	☐	500.000	504.857	13771933.13	1.7738	A	3.2
7	☐	1000.000	1000.279	27429529.03	3.5143	A	0.3
8	☐			5962.51	0.0009	P	15.8

$$y = 0.0035 * x + 8.1913E-005$$

$$R = 0.9999$$

$$DL = 0.00238$$

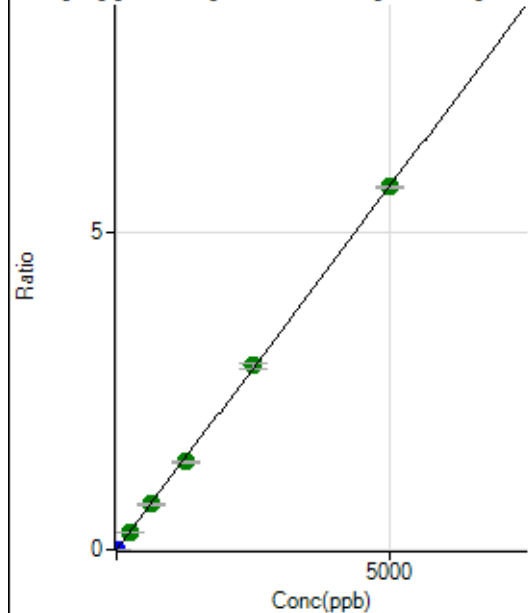
$$BEC = 0.02332$$

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d

206 [Pb] [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	357.79	0.0000	P	6.5
2	☐	1.000	0.989	9362.20	0.0012	P	3.0
3	☐	250.000	244.918	2264672.69	0.2807	A	0.5
4	☐	625.000	624.411	5794023.66	0.7156	A	1.3
5	☐	1250.000	1211.313	11258592.96	1.3881	A	2.6
6	☐	2500.000	2529.494	22503956.19	2.8987	A	3.5
7	☐	5000.000	4995.253	44678270.17	5.7243	A	0.3
8	☐			13580.35	0.0019	P	11.4

$$y = 0.0011 * x + 4.5332E-005$$

R = 0.9999

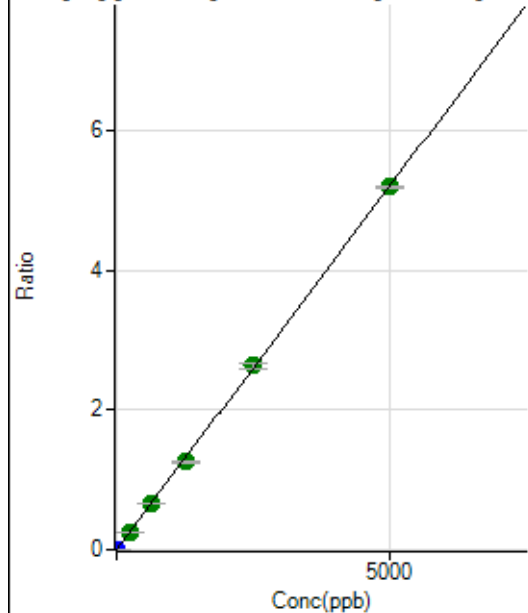
DL = 0.007655

BEC = 0.03956

Weight: <None>

Min Conc: 0

207 [Pb] [No Gas] ISTD : 209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	266.67	0.0000	P	13.7
2	☐	1.000	0.976	8339.28	0.0011	P	1.5
3	☐	250.000	246.495	2071847.33	0.2568	A	0.7
4	☐	625.000	628.658	5303135.75	0.6549	A	0.5
5	☐	1250.000	1212.916	10248580.06	1.2636	A	2.5
6	☐	2500.000	2533.868	20494306.22	2.6397	A	3.3
7	☐	5000.000	4992.055	40589001.34	5.2005	A	0.8
8	☐			12432.51	0.0018	P	8.9

$$y = 0.0010 * x + 3.3778E-005$$

R = 0.9999

DL = 0.01337

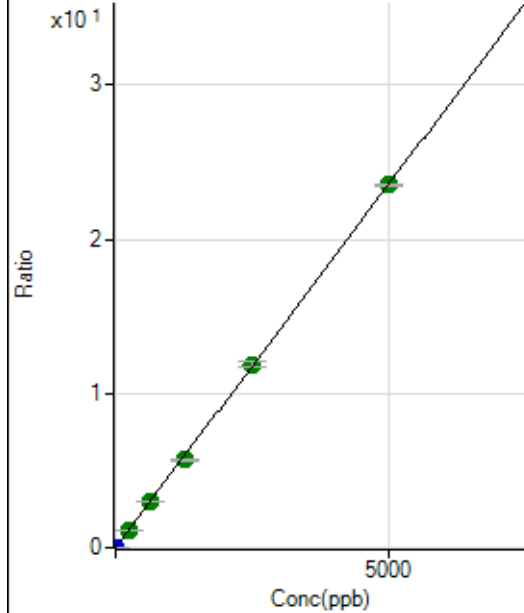
BEC = 0.03242

Weight: <None>

Min Conc: 0

Calibration for 011CALS.d

208 Pb [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1303.37	0.0002	P	4.3
2	☐	1.000	0.975	37736.36	0.0048	P	1.7
3	☐	250.000	246.382	9356550.50	1.1598	A	0.3
4	☐	625.000	624.374	23795958.40	2.9388	A	0.5
5	☐	1250.000	1215.182	46389028.20	5.7195	A	2.4
6	☐	2500.000	2527.501	92364922.79	11.8960	A	3.0
7	☐	5000.000	4995.213	183495095.60	23.5105	A	0.7
8	☐			55506.56	0.0080	P	10.7

$$y = 0.0047 * x + 1.6509E-004$$

$$R = 1.0000$$

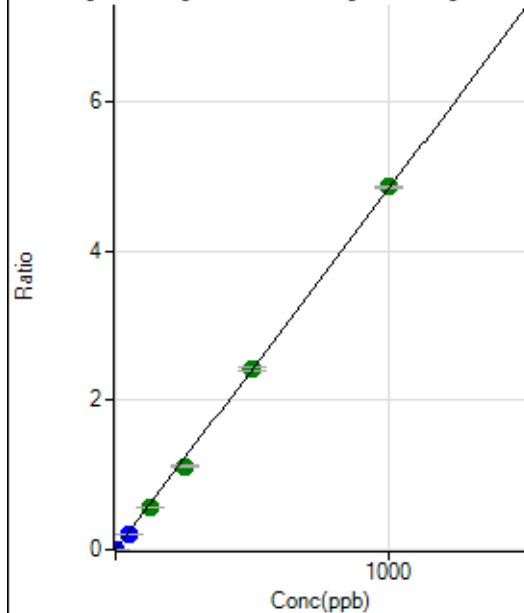
$$DL = 0.004501$$

$$BEC = 0.03508$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8.89	0.0000	P	56.8
2	☐	1.000	0.895	34396.50	0.0043	P	1.8
3	☐	50.000	43.119	1683865.39	0.2087	P	1.5
4	☐	125.000	118.885	4659868.61	0.5755	A	1.1
5	☐	250.000	231.269	9080149.45	1.1195	A	2.6
6	☐	500.000	501.152	18838300.69	2.4260	A	2.5
7	☐	1000.000	1005.215	37979421.65	4.8661	A	0.7
8	☐			7383.32	0.0011	P	22.0

$$y = 0.0048 * x + 1.1228E-006$$

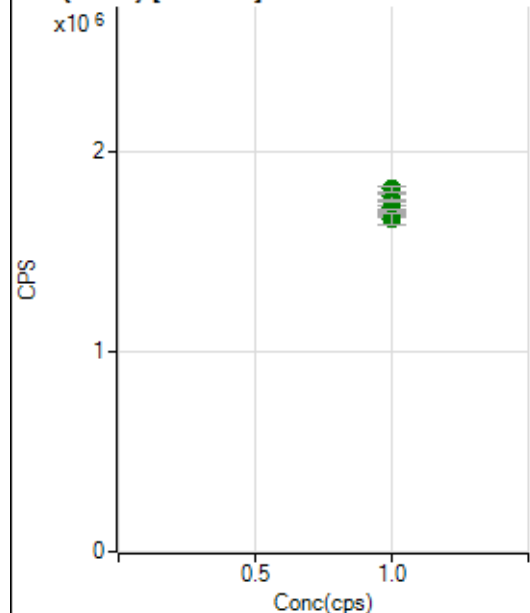
$$R = 0.9998$$

$$DL = 0.0003955$$

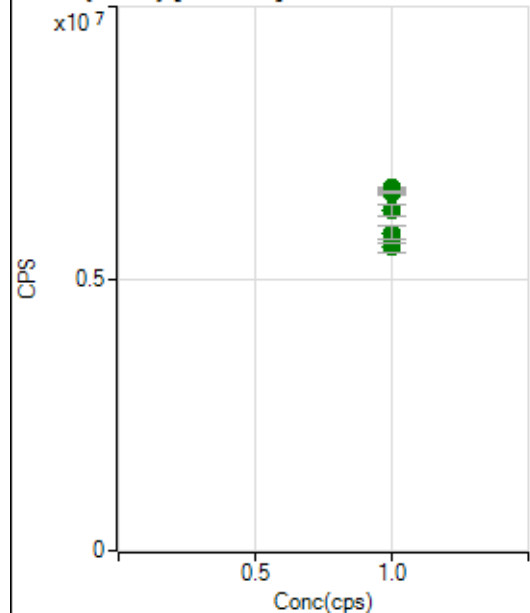
$$BEC = 0.0002319$$

Weight: <None>

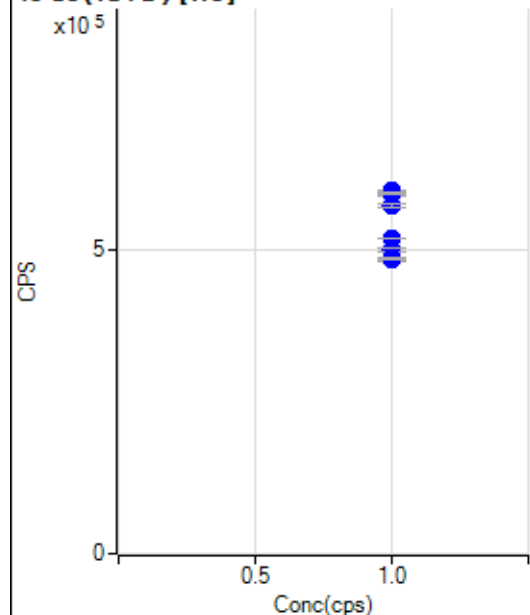
Min Conc: 0

6 Li (ISTD) [No Gas]

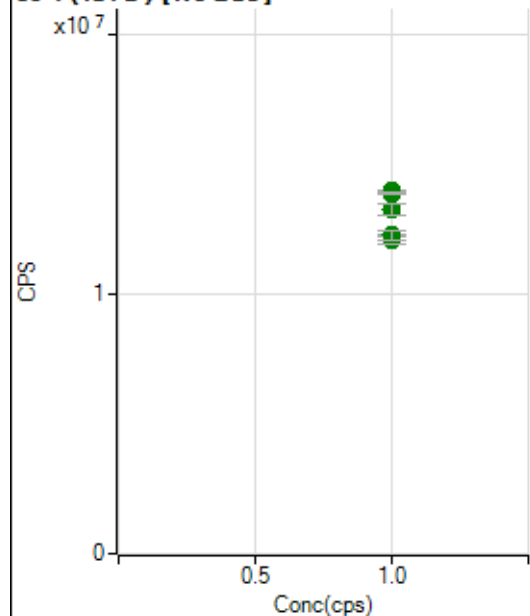
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1694229.80		A	1.9
2	☐	1.000		1718946.97		A	1.7
3	☐	1.000		1747056.95		A	1.5
4	☐	1.000		1777074.02		A	1.5
5	☐	1.000		1815047.99		A	1.6
6	☐	1.000		1716786.35		A	4.3
7	☐	1.000		1706915.16		A	0.9
8	☐	1.000		1664780.58		A	3.6

45 Sc (ISTD) [No Gas]

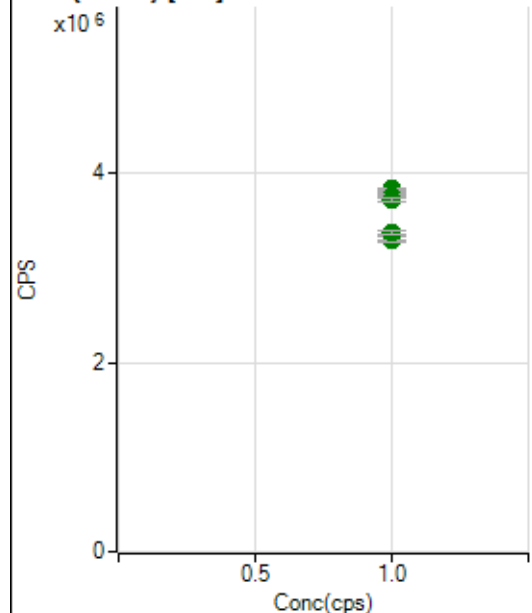
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6642528.37		A	0.3
2	☐	1.000		6587929.83		A	1.3
3	☐	1.000		6670014.55		A	0.5
4	☐	1.000		6598898.16		A	0.8
5	☐	1.000		6266154.56		A	3.4
6	☐	1.000		5575614.64		A	2.8
7	☐	1.000		5652817.76		A	0.2
8	☐	1.000		5842567.34		A	4.2

45 Sc (ISTD) [He]

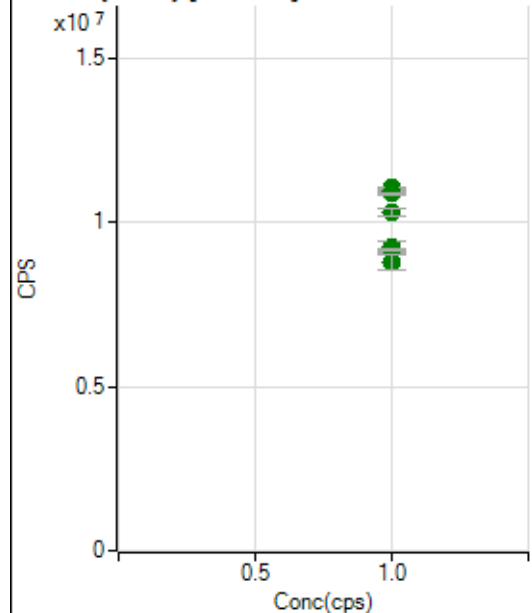
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		592280.24		P	0.5
2	☐	1.000		598379.63		P	0.3
3	☐	1.000		594868.37		P	0.4
4	☐	1.000		575232.58		P	1.2
5	☐	1.000		501625.21		P	1.1
6	☐	1.000		483980.04		P	0.3
7	☐	1.000		487450.14		P	0.3
8	☐	1.000		519115.01		P	0.1

89 Y (ISTD) [No Gas]

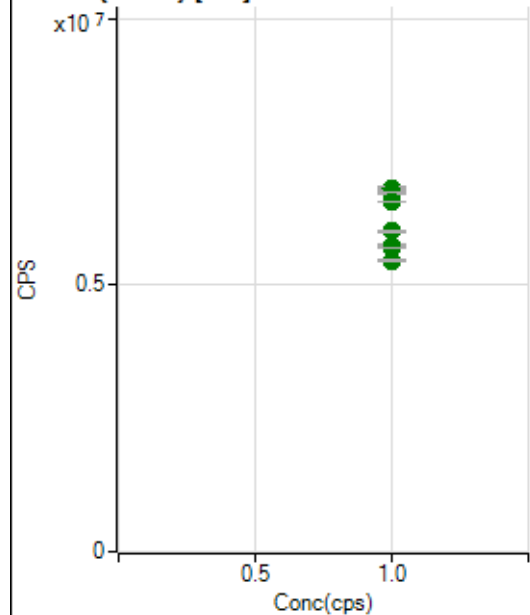
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		13890455.77		A	1.0
2	☐	1.000		13872947.43		A	0.9
3	☐	1.000		13963417.99		A	0.6
4	☐	1.000		13906513.26		A	0.6
5	☐	1.000		13247836.33		A	3.2
6	☐	1.000		12057812.18		A	2.9
7	☐	1.000		12278465.09		A	0.3
8	☐	1.000		12271259.54		A	3.1

89 Y (ISTD) [He]

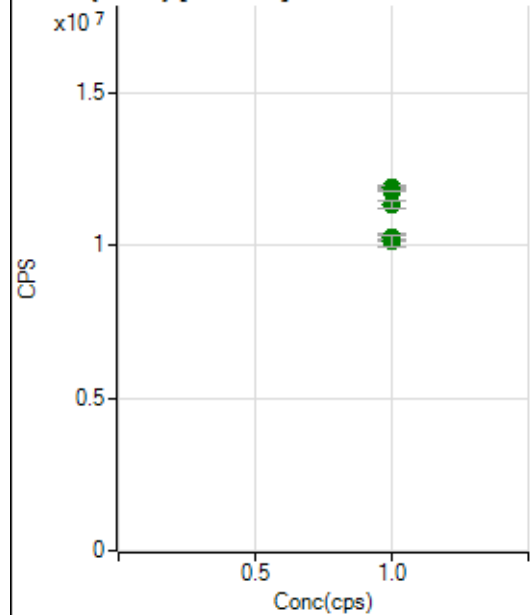
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3828367.06		A	1.0
2	☐	1.000		3838246.02		A	0.2
3	☐	1.000		3772364.25		A	0.8
4	☐	1.000		3720958.63		A	1.2
5	☐	1.000		3348664.39		A	1.0
6	☐	1.000		3293916.82		A	0.2
7	☐	1.000		3293014.85		A	0.5
8	☐	1.000		3371383.98		A	1.0

103 Rh (ISTD) [No Gas]

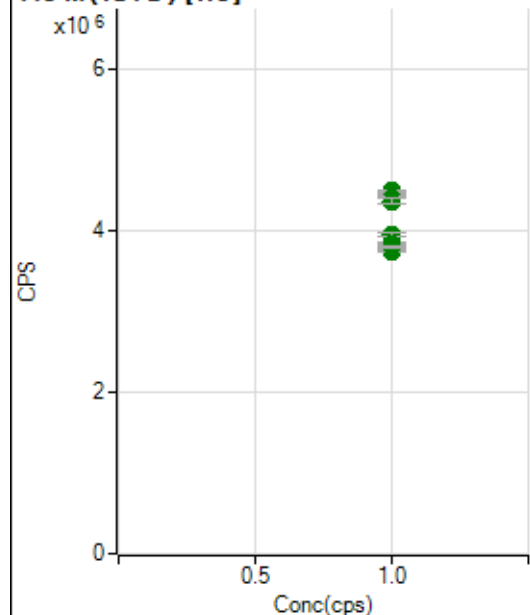
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10991170.25		A	0.2
2	☐	1.000		10982415.39		A	1.1
3	☐	1.000		11056227.20		A	0.7
4	☐	1.000		10885566.92		A	0.5
5	☐	1.000		10319097.42		A	2.7
6	☐	1.000		9254455.21		A	3.3
7	☐	1.000		9172414.72		A	0.5
8	☐	1.000		8791840.28		A	4.8

103 Rh (ISTD) [He]

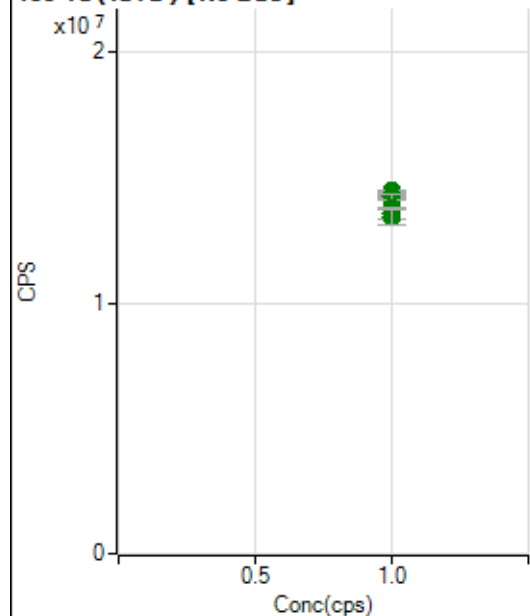
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6793131.43		A	0.3
2	☐	1.000		6801067.75		A	0.9
3	☐	1.000		6731431.43		A	0.8
4	☐	1.000		6558537.40		A	0.5
5	☐	1.000		6009121.44		A	0.6
6	☐	1.000		5746823.73		A	1.0
7	☐	1.000		5691404.84		A	0.3
8	☐	1.000		5455781.38		A	0.4

115 In (ISTD) [No Gas]

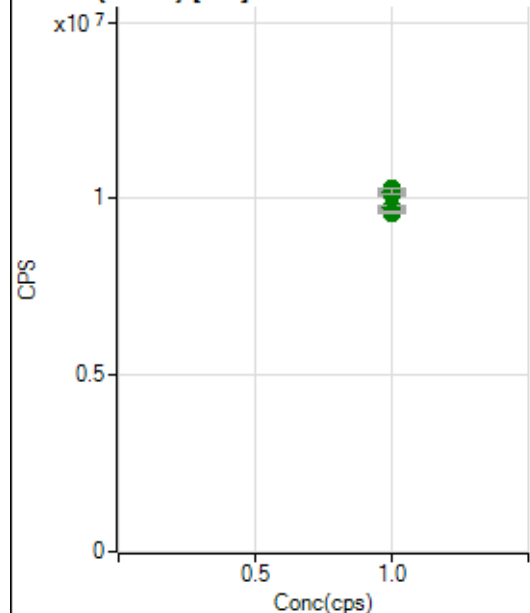
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11874820.08		A	1.1
2	☐	1.000		11824149.34		A	0.8
3	☐	1.000		11873820.93		A	1.0
4	☐	1.000		11786364.14		A	0.2
5	☐	1.000		11342123.49		A	2.5
6	☐	1.000		10259192.49		A	3.0
7	☐	1.000		10244099.36		A	1.1
8	☐	1.000		10136351.45		A	3.7

115 In (ISTD) [He]

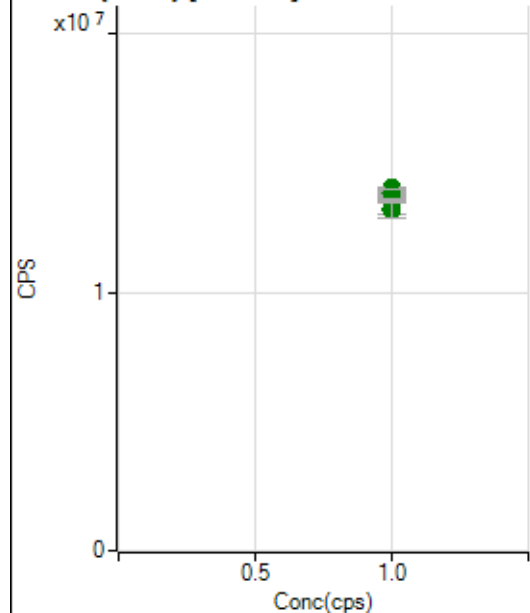
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4474689.53		A	1.1
2	☐	1.000		4491569.47		A	0.7
3	☐	1.000		4413885.91		A	0.7
4	☐	1.000		4359012.06		A	1.6
5	☐	1.000		3951140.16		A	0.9
6	☐	1.000		3839043.01		A	0.6
7	☐	1.000		3743256.40		A	0.7
8	☐	1.000		3801104.30		A	0.6

159 Tb (ISTD) [No Gas]

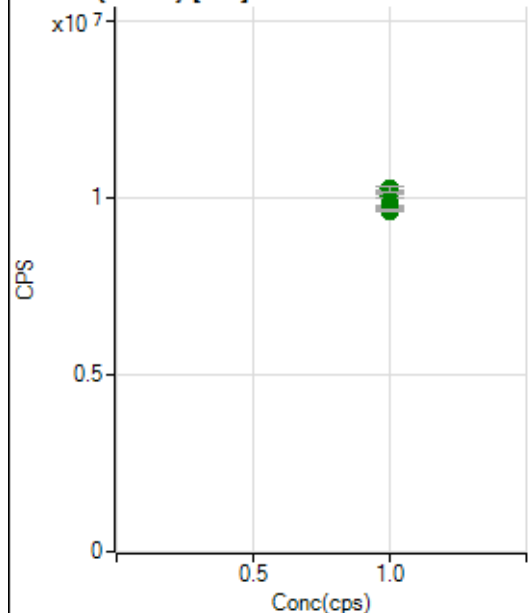
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14273211.04		A	0.4
2	☐	1.000		14177542.29		A	0.2
3	☐	1.000		14479295.06		A	0.7
4	☐	1.000		14483112.98		A	0.3
5	☐	1.000		14242980.06		A	2.0
6	☐	1.000		13555779.52		A	3.4
7	☐	1.000		13823226.60		A	0.3
8	☐	1.000		13433491.33		A	4.1

159 Tb (ISTD) [He]

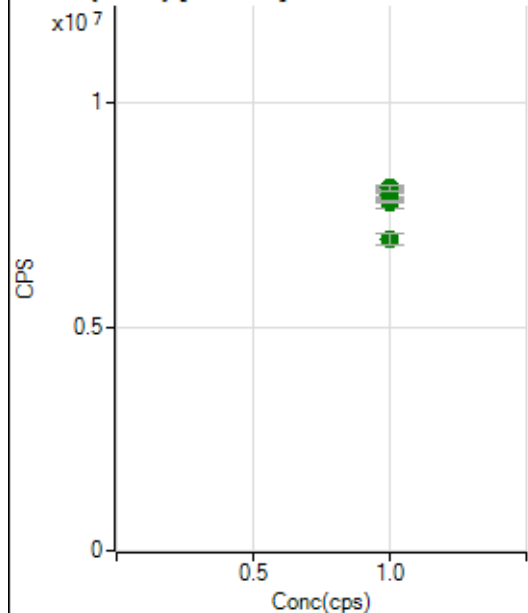
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		10110838.67		A	0.9
2	☐	1.000		10273290.89		A	0.3
3	☐	1.000		10233664.99		A	0.5
4	☐	1.000		10206288.39		A	1.3
5	☐	1.000		9748617.77		A	1.2
6	☐	1.000		9725609.58		A	0.2
7	☐	1.000		9735786.66		A	0.9
8	☐	1.000		9603271.24		A	0.3

165 Ho (ISTD) [No Gas]

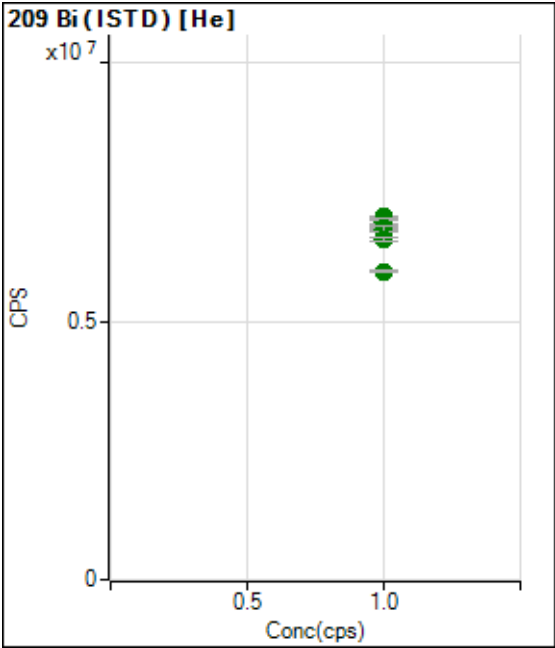
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		13835410.49		A	1.3
2	☐	1.000		13767330.07		A	0.5
3	☐	1.000		14030545.62		A	0.3
4	☐	1.000		13976514.79		A	0.7
5	☐	1.000		13855477.44		A	1.9
6	☐	1.000		13241210.64		A	3.2
7	☐	1.000		13574044.10		A	0.2
8	☐	1.000		13166572.58		A	4.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10062582.35		A	1.2
2	☐	1.000		10184896.86		A	0.9
3	☐	1.000		10171756.24		A	1.0
4	☐	1.000		10264872.49		A	1.4
5	☐	1.000		9762886.59		A	0.7
6	☐	1.000		9780862.98		A	0.8
7	☐	1.000		9738434.99		A	0.4
8	☐	1.000		9645286.94		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7893526.69		A	0.7
2	☐	1.000		7941956.20		A	1.3
3	☐	1.000		8067521.96		A	0.7
4	☐	1.000		8097234.60		A	0.6
5	☐	1.000		8112489.67		A	1.4
6	☐	1.000		7769202.73		A	3.2
7	☐	1.000		7805061.76		A	0.7
8	☐	1.000		6960975.66		A	4.2



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6921079.00		A	0.7
2	☐	1.000		6985818.23		A	0.6
3	☐	1.000		7019977.60		A	0.9
4	☐	1.000		6980726.22		A	0.6
5	☐	1.000		6793355.80		A	0.9
6	☐	1.000		6775103.72		A	1.6
7	☐	1.000		6586026.71		A	0.8
8	☐	1.000		5967244.36		A	0.3

US EPA Tune Check Report

Reviewed By: Mohan
On: 12/25/2024 3:49:22 AM
Inst Id : P7
Client Sample Id
: TUNE007

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7122324MS.b
Acq. Date-Time 2024-12-23 10:04:46
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		7807	78072.60			0.564	5.000
24		246811	2468108.82			0.722	5.000
25		30340	303397.03			0.492	5.000
26		34397	343971.65			0.668	5.000
59		99131	991313.99			0.855	5.000
113		12681	126806.55			0.704	5.000
115		164586	1645864.52			1.145	5.000
206		29974	299736.11			0.409	5.000
207		25980	259800.37			0.593	5.000
208		62521	625213.62			0.641	5.000
220		0	2.60			34.401	

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

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7822	7761	7871	7812	7771
24	245599	249806	246568	245330	246751
25	30322	30102	30506	30403	30365
26	34344	34021	34534	34594	34493
59	98519	100361	98302	98864	99610
113	12795	12594	12703	12725	12587
115	166506	166646	163926	163344	162511
206	30000	29804	30103	30064	29897
207	26145	25735	26067	25964	25989
208	62835	61924	62839	62713	62296

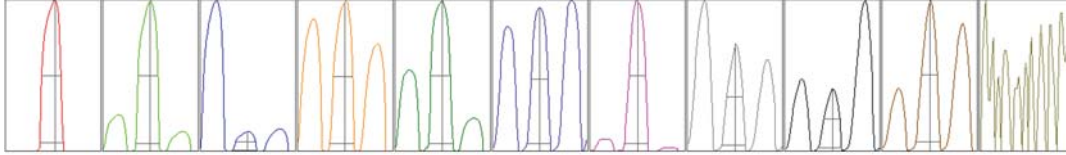
US EPA Tune Check Report

Reviewed By:Mohan
On:12/25/2024 3:49:22
AM
Inst Id :P7
ClientSampleId
:TUNE007

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	13938.06	9.10	8.90 - 9.10	
24	418713.38	24.00	23.90 - 24.10	
25	52722.64	25.00	24.90 - 25.10	
26	59555.39	26.00	25.90 - 26.10	
59	171377.09	59.00	58.90 - 59.10	
113	24822.11	113.00	112.90 - 113.10	
115	317927.88	115.05	114.90 - 115.10	
206	62411.91	206.05	205.90 - 206.10	
207	53587.97	207.05	206.90 - 207.10	
208	128552.86	208.05	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.733	0.900	
24	0.63	0.742	0.900	
25	0.61	0.757	0.900	
26	0.61	0.777	0.900	
59	0.61	0.777	0.900	
113	0.52	0.741	0.900	
115	0.52	0.748	0.900	
206	0.51	0.751	0.900	
207	0.51	0.729	0.900	
208	0.50	0.774	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

Reviewed By: Mohan
On: 12/25/2024 3:49:22 AM
Inst Id : P7
Client Sample Id
TUNE007

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.8 V	Deflect	15.8 V
Extract 2	-135.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	131	Axis Offset	0.17		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	0.4 mm

EM

Discriminator	4.8 mV	Analog HV	2237 V	Pulse HV	1013 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		33953	339530.58			0.383	
89		58512	585118.13			0.434	
205		35632	356316.59			0.265	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	34113	33943	34010	33943	33756
89	58847	58636	58510	58396	58171
205	35749	35672	35664	35562	35511

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.9 V	Deflect	3.8 V

US EPA Tune Check Report

Reviewed By:Mohan
On:12/25/2024 3:49:22
AM
Inst Id :P7
ClientSampleId
TUNE007

Extract 2	-145.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	136	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	131	Axis Offset	0.17		
Hardware Settings					
Torch					
Torch H	0.4 mm	Torch V	0.4 mm		
EM					
Discriminator	4.8 mV	Analog HV	2237 V	Pulse HV	1013 V

LB Number :
Lab Sample ID :
Client Sample ID :
Date & Time Acquired :

LB134068
S00
S0
2024-12-23 10:59:16

Operator :
Instrumnet Name :
Dilution Factor :
DataFile Name :

Jaswal
P7
1
004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.06	0.07	-0.01	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	-0.02	0.01	0.00	0.00	N/A	ppb
Barium	135-1	0.00	0.00	-0.01	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	-0.01	0.00	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.01	0.00	-0.01	0.00	N/A	ppb
Cadmium	106-1	0.17	-0.16	-0.01	0.00	N/A	ppb
Cadmium	111-1	0.01	-0.01	0.00	0.00	N/A	ppb
Calcium	43-1	-0.90	-0.45	1.35	0.00	N/A	ppb
Calcium	44-1	-0.17	0.11	0.06	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.00	0.00	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	0.00	0.00	0.00	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	-0.02	-0.03	0.04	0.00	N/A	ppb
Iron	57-2	-0.26	0.44	-0.17	0.00	N/A	ppb
Iron	54-2	-0.15	-0.13	0.29	0.00	N/A	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 10:59:16 DataFile Name : 004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.00	0.00	0.00	N/A	ppb
Lead	207-1	0.00	0.00	0.00	0.00	N/A	ppb
Lead	208-1	0.00	0.00	0.00	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	0.01	0.06	-0.07	0.00	N/A	ppb
Manganese	55-2	-0.01	0.01	0.00	0.00	N/A	ppb
Molybdenum	94-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.01	-0.01	0.00	N/A	ppb
Phosphorus	31-2	-16.52	-14.37	-16.17	-15.69		ppb
Potassium	39-2	-0.49	-0.08	0.57	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.00	0.07	-0.07	0.00	N/A	ppb
Selenium	77-2	-0.16	-0.16	0.31	0.00	N/A	ppb
Selenium	78-2	0.02	1.32	-1.34	0.00	N/A	ppb
Silicon	28-1	-0.28	-0.22	0.51	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	0.23	0.30	-0.54	0.00	N/A	ppb
Strontium	86-1	-0.07	-0.40	0.47	0.00	N/A	ppb
Strontium	88-1	0.01	0.01	-0.02	0.00	N/A	ppb
Sulfur	34-1	-71.20	-105.03	-57.50	-77.91		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	-0.01	0.01	0.00	0.00	N/A	ppb
Titanium	47-1	-0.01	0.00	0.00	0.00	N/A	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S00

Instrumnet Name :

P7

Client Sample ID :

S0

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 10:59:16

DataFile Name :

004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	-0.03	0.00	0.02	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	-0.01	0.01	0.00	0.00	N/A	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:05:51 DataFile Name : 006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.39	19.85	20.44	19.89	2.65	ppb
Antimony	121-1	2.19	2.28	2.21	2.23	1.99	ppb
Arsenic	75-2	1.06	1.13	1.21	1.13	6.40	ppb
Barium	135-1	10.74	10.67	10.78	10.73	0.51	ppb
Barium	137-1	10.85	10.85	10.96	10.89	0.58	ppb
Beryllium	9-1	1.25	1.09	1.18	1.17	6.83	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.77	1.25	1.20	1.07	24.31	ppb
Cadmium	106-1	1.83	0.47	0.94	1.08	63.82	ppb
Cadmium	111-1	1.23	1.20	1.16	1.20	3.25	ppb
Calcium	43-1	586.75	600.29	575.59	587.54	2.10	ppb
Calcium	44-1	577.85	591.05	589.97	586.29	1.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.23	2.20	2.14	2.19	2.14	ppb
Cobalt	59-2	1.15	1.14	1.12	1.14	1.02	ppb
Copper	63-2	2.07	2.10	2.05	2.07	1.44	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	56.15	56.77	56.49	56.47	0.55	ppb
Iron	57-2	57.77	56.91	59.82	58.17	2.56	ppb
Iron	54-2	60.92	59.43	59.88	60.08	1.27	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:05:51 DataFile Name : 006CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.96	1.02	1.00	0.99	3.09	ppb
Lead	207-1	0.96	0.98	0.99	0.98	1.50	ppb
Lead	208-1	0.96	0.99	0.98	0.97	1.77	ppb
Lithium	6-1				101		%
Magnesium	24-2	521.90	522.26	522.55	522.24	0.06	ppb
Manganese	55-2	1.06	1.16	1.09	1.11	4.31	ppb
Molybdenum	94-1	6.07	6.12	6.41	6.20	2.99	ppb
Molybdenum	95-1	5.12	5.18	5.25	5.19	1.24	ppb
Molybdenum	96-1	5.33	5.28	5.51	5.37	2.27	ppb
Molybdenum	97-1	5.31	5.27	5.25	5.28	0.57	ppb
Molybdenum	98-1	5.26	5.17	5.18	5.20	0.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.13	0.99	1.14	1.09	7.71	ppb
Phosphorus	31-2	12.23	13.44	21.39	15.69	31.69	ppb
Potassium	39-2	550.16	549.24	550.86	550.09	0.15	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				99		%
Scandium	45-2				101		%
Selenium	82-1	5.72	5.38	5.57	5.56	3.08	ppb
Selenium	77-2	6.62	5.67	6.12	6.14	7.70	ppb
Selenium	78-2	3.53	6.14	5.41	5.03	26.74	ppb
Silicon	28-1	2.35	21.23	21.17	14.92	72.99	ppb
Silver	107-1	1.13	1.15	1.14	1.14	1.11	ppb
Silver	109-1	1.16	1.11	1.17	1.15	3.08	ppb
Sodium	23-2	508.32	511.77	509.87	509.99	0.34	ppb
Strontium	86-1	25.25	25.44	26.87	25.85	3.43	ppb
Strontium	88-1	26.93	26.23	26.51	26.55	1.32	ppb
Sulfur	34-1	-44.19	127.45	150.46	77.91	136.52	ppb
Terbium	159-1				99		%
Terbium	159-2				102		%
Thallium	203-1	0.97	0.95	0.99	0.97	2.11	ppb
Thallium	205-1	0.95	0.93	0.99	0.96	2.88	ppb
Tin	118-1	5.64	5.68	5.58	5.63	0.81	ppb
Titanium	47-1	5.53	5.27	5.36	5.39	2.43	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S02

Instrumnet Name :

P7

Client Sample ID :

S02

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 11:05:51

DataFile Name :

006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.88	0.91	0.89	0.89	1.82	ppb
Vanadium	51-2	5.44	5.42	5.44	5.43	0.26	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	5.33	5.60	5.28	5.40	3.20	ppb
Zirconium	90-1	1.02	1.03	1.03	1.03	0.43	ppb
Zirconium	91-1	0.98	1.05	1.06	1.03	4.17	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :S03Instrumnet Name :P7

Client Sample ID :S03Dilution Factor :1

Date & Time Acquired :2024-12-23 11:09:06DataFile Name :007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	978.26	973.48	963.60	971.78	0.77	ppb
Antimony	121-1	50.63	51.35	51.68	51.22	1.04	ppb
Arsenic	75-2	53.61	54.11	53.53	53.75	0.58	ppb
Barium	135-1	248.80	252.55	251.66	251.00	0.78	ppb
Barium	137-1	251.14	255.37	255.13	253.88	0.94	ppb
Beryllium	9-1	53.90	54.36	55.32	54.53	1.33	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	54.86	55.33	56.75	55.65	1.76	ppb
Cadmium	106-1	54.39	56.67	57.60	56.22	2.94	ppb
Cadmium	111-1	53.06	53.96	54.49	53.84	1.34	ppb
Calcium	43-1	5446.16	5453.18	5432.50	5443.95	0.19	ppb
Calcium	44-1	5170.14	5122.18	5083.82	5125.38	0.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	51.36	50.70	50.09	50.72	1.26	ppb
Cobalt	59-2	50.55	50.19	49.92	50.22	0.63	ppb
Copper	63-2	528.81	520.05	518.32	522.39	1.08	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	2572.09	2563.10	2538.68	2557.96	0.68	ppb
Iron	57-2	2646.55	2628.32	2622.21	2632.36	0.48	ppb
Iron	54-2	2716.25	2678.70	2679.26	2691.40	0.80	ppb
Krypton	83-1						cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S03

Instrumnet Name :

P7

Client Sample ID :

S03

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 11:09:06

DataFile Name :

007CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	245.53	245.73	243.49	244.92	0.51	ppb
Lead	207-1	246.76	244.69	248.03	246.50	0.68	ppb
Lead	208-1	245.71	247.13	246.30	246.38	0.29	ppb
Lithium	6-1				103		%
Magnesium	24-2	4693.78	4723.98	4684.85	4700.87	0.44	ppb
Manganese	55-2	498.66	499.37	493.78	497.27	0.61	ppb
Molybdenum	94-1	495.47	499.16	502.83	499.15	0.74	ppb
Molybdenum	95-1	498.54	491.98	506.72	499.08	1.48	ppb
Molybdenum	96-1	495.62	496.51	507.46	499.86	1.32	ppb
Molybdenum	97-1	498.68	500.65	508.48	502.60	1.03	ppb
Molybdenum	98-1	493.18	493.40	508.85	498.48	1.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	51.15	51.25	50.46	50.95	0.84	ppb
Phosphorus	31-2	1031.47	1018.43	1044.03	1031.31	1.24	ppb
Potassium	39-2	2554.76	2543.07	2457.54	2518.46	2.11	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	51.42	52.64	52.68	52.25	1.37	ppb
Selenium	77-2	49.06	56.01	54.43	53.17	6.86	ppb
Selenium	78-2	52.86	54.17	56.01	54.35	2.91	ppb
Silicon	28-1	71.99	69.80	71.65	71.15	1.66	ppb
Silver	107-1	54.37	55.23	55.34	54.98	0.97	ppb
Silver	109-1	53.37	53.80	54.60	53.92	1.15	ppb
Sodium	23-2	4967.74	4975.96	4866.45	4936.72	1.24	ppb
Strontium	86-1	1226.77	1236.32	1237.35	1233.48	0.47	ppb
Strontium	88-1	1224.71	1244.48	1252.92	1240.70	1.17	ppb
Sulfur	34-1	1056.54	1073.15	1143.11	1090.93	4.21	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	45.21	45.74	46.30	45.75	1.20	ppb
Thallium	205-1	44.82	45.22	45.95	45.33	1.26	ppb
Tin	118-1	50.96	51.94	52.09	51.66	1.19	ppb
Titanium	47-1	501.37	499.39	502.40	501.05	0.30	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S03

Instrumnet Name :

P7

Client Sample ID :

S03

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 11:09:06

DataFile Name :

007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	42.51	43.03	43.82	43.12	1.53	ppb
Vanadium	51-2	50.61	50.37	49.91	50.30	0.71	ppb
Yttrium	89-1				101		%
Yttrium	89-2				99		%
Zinc	66-2	500.52	491.59	491.33	494.48	1.06	ppb
Zirconium	90-1	48.58	48.72	49.03	48.78	0.47	ppb
Zirconium	91-1	48.73	49.61	49.95	49.43	1.27	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :S04Instrumnet Name :P7

Client Sample ID :S04Dilution Factor :1

Date & Time Acquired :2024-12-23 11:12:08DataFile Name :008CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2423.88	2468.64	2480.70	2457.74	1.22	ppb
Antimony	121-1	132.60	132.26	132.50	132.45	0.13	ppb
Arsenic	75-2	133.66	133.29	134.49	133.81	0.46	ppb
Barium	135-1	655.90	667.25	660.56	661.24	0.86	ppb
Barium	137-1	666.20	673.15	664.00	667.78	0.72	ppb
Beryllium	9-1	134.51	138.24	132.33	135.03	2.21	ppb
Bismuth	209-1				103		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	138.39	138.13	137.82	138.11	0.20	ppb
Cadmium	106-1	138.77	140.55	139.07	139.46	0.68	ppb
Cadmium	111-1	133.74	135.52	133.45	134.24	0.84	ppb
Calcium	43-1	13619.93	13538.18	13876.97	13678.36	1.29	ppb
Calcium	44-1	12951.14	12964.57	12936.96	12950.89	0.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	127.24	128.35	128.96	128.18	0.68	ppb
Cobalt	59-2	125.47	127.47	127.28	126.74	0.87	ppb
Copper	63-2	1275.97	1299.68	1327.22	1300.95	1.97	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				102		%
Indium	115-1				99		%
Indium	115-2				97		%
Iron	56-2	6442.29	6578.09	6474.88	6498.42	1.09	ppb
Iron	57-2	6560.70	6698.31	6670.40	6643.14	1.10	ppb
Iron	54-2	6559.35	6710.17	6674.13	6647.88	1.18	ppb
Krypton	83-1						cps

LB Number :	LB134068	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-12-23 11:12:08	DataFile Name :	008CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	631.45	615.88	625.91	624.41	1.26	ppb
Lead	207-1	631.76	625.56	628.65	628.66	0.49	ppb
Lead	208-1	626.69	621.01	625.42	624.37	0.48	ppb
Lithium	6-1				105		%
Magnesium	24-2	11701.54	11819.62	11806.81	11775.99	0.55	ppb
Manganese	55-2	1248.19	1267.89	1262.30	1259.46	0.81	ppb
Molybdenum	94-1	1266.19	1251.27	1258.76	1258.74	0.59	ppb
Molybdenum	95-1	1261.09	1249.83	1252.22	1254.38	0.47	ppb
Molybdenum	96-1	1260.94	1259.78	1272.69	1264.47	0.56	ppb
Molybdenum	97-1	1273.23	1244.00	1247.58	1254.93	1.27	ppb
Molybdenum	98-1	1265.09	1248.21	1254.19	1255.83	0.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	127.27	127.75	129.12	128.04	0.75	ppb
Phosphorus	31-2	2621.37	2611.49	2634.02	2622.29	0.43	ppb
Potassium	39-2	6253.70	6341.49	6316.98	6304.06	0.72	ppb
Rhodium	103-1				99		%
Rhodium	103-2				97		%
Scandium	45-1				99		%
Scandium	45-2				97		%
Selenium	82-1	133.00	130.73	131.58	131.77	0.87	ppb
Selenium	77-2	129.95	132.30	130.00	130.75	1.03	ppb
Selenium	78-2	138.64	129.98	135.76	134.79	3.27	ppb
Silicon	28-1	150.54	151.92	152.27	151.58	0.61	ppb
Silver	107-1	140.71	139.48	138.88	139.69	0.67	ppb
Silver	109-1	141.12	141.65	136.42	139.73	2.06	ppb
Sodium	23-2	12542.87	12519.66	12615.93	12559.49	0.40	ppb
Strontium	86-1	3087.41	3087.83	3098.83	3091.35	0.21	ppb
Strontium	88-1	3192.98	3138.41	3155.89	3162.43	0.88	ppb
Sulfur	34-1	2615.79	2641.96	2671.47	2643.07	1.05	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	114.17	114.35	115.74	114.75	0.75	ppb
Thallium	205-1	123.45	123.51	124.00	123.65	0.24	ppb
Tin	118-1	129.22	129.70	128.96	129.29	0.29	ppb
Titanium	47-1	1253.63	1258.85	1275.73	1262.74	0.91	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S04

Instrumnet Name :

P7

Client Sample ID :

S04

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 11:12:08

DataFile Name :

008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	119.18	117.49	119.99	118.89	1.07	ppb
Vanadium	51-2	126.13	128.60	127.73	127.49	0.98	ppb
Yttrium	89-1				100		%
Yttrium	89-2				97		%
Zinc	66-2	1241.39	1255.65	1259.77	1252.27	0.77	ppb
Zirconium	90-1	125.88	122.94	126.72	125.18	1.59	ppb
Zirconium	91-1	123.86	123.74	124.67	124.09	0.41	ppb

LB Number :	LB134068	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-12-23 11:14:58	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4756.29	4820.85	4835.90	4804.35	0.88	ppb
Antimony	121-1	247.69	255.32	260.18	254.40	2.47	ppb
Arsenic	75-2	254.07	256.25	253.86	254.73	0.52	ppb
Barium	135-1	1229.27	1277.93	1269.39	1258.86	2.06	ppb
Barium	137-1	1222.20	1276.01	1286.86	1261.69	2.74	ppb
Beryllium	9-1	247.64	250.76	255.83	251.41	1.65	ppb
Bismuth	209-1				103		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	255.05	263.91	263.78	260.91	1.95	ppb
Cadmium	106-1	254.53	265.95	264.94	261.81	2.42	ppb
Cadmium	111-1	246.91	257.25	256.13	253.43	2.24	ppb
Calcium	43-1	25783.20	26913.01	26883.92	26526.71	2.43	ppb
Calcium	44-1	24683.71	25542.76	25444.32	25223.60	1.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	248.10	249.61	249.47	249.06	0.33	ppb
Cobalt	59-2	251.00	253.27	248.72	250.99	0.91	ppb
Copper	63-2	2521.03	2553.80	2528.49	2534.44	0.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				97		%
Indium	115-1				96		%
Indium	115-2				88		%
Iron	56-2	12761.22	12869.38	12708.32	12779.64	0.64	ppb
Iron	57-2	12756.31	13165.12	13112.54	13011.32	1.71	ppb
Iron	54-2	13061.19	12939.35	13082.92	13027.82	0.59	ppb
Krypton	83-1						cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S05

Instrumnet Name :

P7

Client Sample ID :

S05

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 11:14:58

DataFile Name :

009CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1175.36	1232.61	1225.96	1211.31	2.58	ppb
Lead	207-1	1179.29	1220.17	1239.29	1212.92	2.53	ppb
Lead	208-1	1181.56	1229.39	1234.59	1215.18	2.41	ppb
Lithium	6-1				107		%
Magnesium	24-2	23205.57	23341.09	23401.54	23316.06	0.43	ppb
Manganese	55-2	2487.85	2491.98	2513.44	2497.76	0.55	ppb
Molybdenum	94-1	2376.13	2524.92	2476.58	2459.21	3.09	ppb
Molybdenum	95-1	2381.37	2526.76	2495.53	2467.89	3.10	ppb
Molybdenum	96-1	2386.42	2529.96	2488.03	2468.14	2.99	ppb
Molybdenum	97-1	2354.26	2492.90	2498.32	2448.49	3.33	ppb
Molybdenum	98-1	2368.49	2510.43	2502.06	2460.32	3.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	245.84	247.73	246.59	246.72	0.39	ppb
Phosphorus	31-2	4962.50	5054.96	5010.11	5009.19	0.92	ppb
Potassium	39-2	12049.07	12170.15	12231.56	12150.26	0.76	ppb
Rhodium	103-1				94		%
Rhodium	103-2				88		%
Scandium	45-1				94		%
Scandium	45-2				85		%
Selenium	82-1	246.72	257.21	259.34	254.43	2.66	ppb
Selenium	77-2	250.58	257.37	266.51	258.15	3.10	ppb
Selenium	78-2	261.38	253.22	253.54	256.05	1.81	ppb
Silicon	28-1	268.04	289.31	284.73	280.69	3.99	ppb
Silver	107-1	259.90	269.55	266.61	265.35	1.86	ppb
Silver	109-1	259.71	266.74	263.74	263.40	1.34	ppb
Sodium	23-2	24422.23	24720.84	24927.79	24690.29	1.03	ppb
Strontium	86-1	5811.05	6116.13	6117.79	6014.99	2.94	ppb
Strontium	88-1	5928.44	6203.81	6087.83	6073.36	2.28	ppb
Sulfur	34-1	4670.08	5143.11	5102.41	4971.86	5.27	ppb
Terbium	159-1				100		%
Terbium	159-2				96		%
Thallium	203-1	236.40	242.06	243.52	240.66	1.56	ppb
Thallium	205-1	235.67	244.54	242.13	240.78	1.90	ppb
Tin	118-1	250.09	256.51	251.23	252.61	1.36	ppb
Titanium	47-1	2394.86	2486.50	2530.51	2470.62	2.80	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S05

Instrumnet Name :

P7

Client Sample ID :

S05

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 11:14:58

DataFile Name :

009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	224.43	235.24	234.13	231.27	2.57	ppb
Vanadium	51-2	248.35	247.55	248.23	248.04	0.17	ppb
Yttrium	89-1				95		%
Yttrium	89-2				87		%
Zinc	66-2	2507.63	2545.50	2563.62	2538.92	1.13	ppb
Zirconium	90-1	238.96	250.19	247.08	245.41	2.36	ppb
Zirconium	91-1	234.31	246.48	248.20	243.00	3.12	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:17:46 DataFile Name : 010CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9751.88	9706.99	9614.23	9691.03	0.72	ppb
Antimony	121-1	526.54	501.39	498.62	508.85	3.02	ppb
Arsenic	75-2	498.62	503.05	501.98	501.22	0.46	ppb
Barium	135-1	2647.20	2482.66	2506.93	2545.59	3.49	ppb
Barium	137-1	2630.74	2477.87	2499.47	2536.03	3.26	ppb
Beryllium	9-1	523.66	490.10	504.37	506.04	3.33	ppb
Bismuth	209-1				98		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	533.71	506.27	510.24	516.74	2.87	ppb
Cadmium	106-1	532.83	506.20	503.75	514.26	3.14	ppb
Cadmium	111-1	517.20	493.20	491.13	500.51	2.90	ppb
Calcium	43-1	54397.87	51435.51	52643.61	52825.66	2.82	ppb
Calcium	44-1	54164.15	51663.82	51761.84	52529.94	2.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	501.68	502.02	501.24	501.65	0.08	ppb
Cobalt	59-2	506.53	500.71	504.04	503.76	0.58	ppb
Copper	63-2	5091.34	5072.07	5033.63	5065.68	0.58	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				97		%
Indium	115-1				86		%
Indium	115-2				86		%
Iron	56-2	25848.64	25603.56	25860.25	25770.81	0.56	ppb
Iron	57-2	26171.12	25592.50	25610.96	25791.53	1.28	ppb
Iron	54-2	26298.08	25885.28	26215.65	26133.00	0.84	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:17:46 DataFile Name : 010CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2629.27	2500.95	2458.27	2529.49	3.52	ppb
Lead	207-1	2625.11	2512.21	2464.29	2533.87	3.26	ppb
Lead	208-1	2607.62	2517.24	2457.64	2527.50	2.99	ppb
Lithium	6-1				101		%
Magnesium	24-2	46977.57	46638.62	46671.62	46762.60	0.40	ppb
Manganese	55-2	5031.60	5000.34	5054.88	5028.94	0.54	ppb
Molybdenum	94-1	5242.10	5000.86	5016.92	5086.63	2.65	ppb
Molybdenum	95-1	5254.57	4988.95	5005.93	5083.15	2.93	ppb
Molybdenum	96-1	5299.78	5019.87	4965.05	5094.90	3.52	ppb
Molybdenum	97-1	5295.18	4960.76	4965.60	5073.85	3.78	ppb
Molybdenum	98-1	5275.81	4989.21	4954.47	5073.17	3.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	488.76	491.25	488.35	489.45	0.32	ppb
Phosphorus	31-2	9980.45	10126.93	10061.31	10056.23	0.73	ppb
Potassium	39-2	24671.57	24561.64	24500.69	24577.96	0.35	ppb
Rhodium	103-1				84		%
Rhodium	103-2				85		%
Scandium	45-1				84		%
Scandium	45-2				82		%
Selenium	82-1	535.58	505.44	507.25	516.09	3.27	ppb
Selenium	77-2	494.98	495.04	512.66	500.89	2.03	ppb
Selenium	78-2	505.45	503.73	503.61	504.26	0.21	ppb
Silicon	28-1	542.91	514.11	518.35	525.12	2.96	ppb
Silver	107-1	540.54	509.12	502.18	517.28	3.95	ppb
Silver	109-1	538.25	505.65	505.67	516.52	3.64	ppb
Sodium	23-2	49857.89	49422.72	49450.10	49576.91	0.49	ppb
Strontium	86-1	13394.70	12465.17	12389.62	12749.83	4.39	ppb
Strontium	88-1	13204.95	12476.07	12574.72	12751.91	3.10	ppb
Sulfur	34-1	10780.55	9938.94	10053.84	10257.77	4.45	ppb
Terbium	159-1				95		%
Terbium	159-2				96		%
Thallium	203-1	523.78	496.90	496.78	505.82	3.07	ppb
Thallium	205-1	520.97	504.98	488.62	504.86	3.20	ppb
Tin	118-1	533.62	500.71	500.29	511.54	3.74	ppb
Titanium	47-1	5178.21	4955.57	5055.73	5063.17	2.20	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S06

Instrumnet Name :

P7

Client Sample ID :

S06

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 11:17:46

DataFile Name :

010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	515.48	496.28	491.70	501.15	2.52	ppb
Vanadium	51-2	499.42	501.58	495.49	498.83	0.62	ppb
Yttrium	89-1				87		%
Yttrium	89-2				86		%
Zinc	66-2	5107.12	5102.03	5091.96	5100.37	0.15	ppb
Zirconium	90-1	520.29	500.84	502.88	508.01	2.10	ppb
Zirconium	91-1	517.39	502.95	500.21	506.85	1.82	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:20:30 DataFile Name : 011CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19422.13	19059.23	19156.96	19212.77	0.98	ppb
Antimony	121-1	990.74	1001.72	987.98	993.48	0.73	ppb
Arsenic	75-2	993.90	999.63	997.23	996.92	0.29	ppb
Barium	135-1	4990.43	4974.58	4946.21	4970.41	0.45	ppb
Barium	137-1	5023.50	4980.33	4916.74	4973.52	1.08	ppb
Beryllium	9-1	995.78	985.75	1003.91	995.15	0.91	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	980.86	986.51	993.57	986.98	0.65	ppb
Cadmium	106-1	979.25	989.06	995.09	987.80	0.81	ppb
Cadmium	111-1	999.60	991.65	1001.37	997.54	0.52	ppb
Calcium	43-1	101811.21	102683.34	102884.95	102459.83	0.56	ppb
Calcium	44-1	101698.61	102677.89	102669.31	102348.60	0.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1004.08	998.42	994.43	998.98	0.49	ppb
Cobalt	59-2	1000.22	991.29	1001.41	997.64	0.55	ppb
Copper	63-2	10056.02	9916.05	9881.11	9951.06	0.93	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				97		%
Indium	115-1				86		%
Indium	115-2				84		%
Iron	56-2	51426.72	51663.97	50948.54	51346.41	0.71	ppb
Iron	57-2	50928.65	51136.85	51391.55	51152.35	0.45	ppb
Iron	54-2	51561.85	51655.24	52028.74	51748.61	0.48	ppb
Krypton	83-1						cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S07

Instrumnet Name :

P7

Client Sample ID :

S07

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 11:20:30

DataFile Name :

011CAL.S.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5007.38	4978.88	4999.50	4995.25	0.29	ppb
Lead	207-1	4983.01	4959.50	5033.66	4992.05	0.76	ppb
Lead	208-1	5007.17	4955.58	5022.89	4995.21	0.70	ppb
Lithium	6-1				101		%
Magnesium	24-2	93129.46	92576.83	92395.34	92700.54	0.41	ppb
Manganese	55-2	10024.19	10026.53	9904.42	9985.05	0.70	ppb
Molybdenum	94-1	9902.33	10022.13	9973.05	9965.84	0.60	ppb
Molybdenum	95-1	9881.63	9992.85	10023.36	9965.95	0.75	ppb
Molybdenum	96-1	9926.49	10003.20	9946.45	9958.71	0.40	ppb
Molybdenum	97-1	9937.13	9885.91	10102.58	9975.21	1.14	ppb
Molybdenum	98-1	9903.92	9955.48	10058.65	9972.68	0.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	992.75	1016.31	1007.95	1005.67	1.19	ppb
Phosphorus	31-2	20107.87	19848.50	19901.85	19952.74	0.69	ppb
Potassium	39-2	48940.09	49282.68	48735.53	48986.10	0.56	ppb
Rhodium	103-1				83		%
Rhodium	103-2				84		%
Scandium	45-1				85		%
Scandium	45-2				82		%
Selenium	82-1	985.02	993.65	990.99	989.89	0.45	ppb
Selenium	77-2	988.69	1000.77	1000.44	996.63	0.69	ppb
Selenium	78-2	998.32	994.82	991.61	994.92	0.34	ppb
Silicon	28-1	980.45	974.38	971.19	975.34	0.48	ppb
Silver	107-1	986.56	988.49	981.25	985.44	0.38	ppb
Silver	109-1	985.96	987.61	985.48	986.35	0.11	ppb
Sodium	23-2	98385.31	98733.04	98753.07	98623.81	0.21	ppb
Strontium	86-1	24781.63	24988.07	25046.90	24938.87	0.56	ppb
Strontium	88-1	24807.99	24855.67	25078.31	24913.99	0.58	ppb
Sulfur	34-1	19805.76	19853.16	19908.23	19855.72	0.26	ppb
Terbium	159-1				97		%
Terbium	159-2				96		%
Thallium	203-1	1001.37	1000.05	1001.33	1000.92	0.08	ppb
Thallium	205-1	1002.68	997.56	1000.60	1000.28	0.26	ppb
Tin	118-1	991.40	989.24	998.23	992.96	0.47	ppb
Titanium	47-1	9956.15	9941.40	10024.79	9974.11	0.45	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S07

Instrumnet Name :

P7

Client Sample ID :

S07

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 11:20:30

DataFile Name :

011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1009.07	997.32	1009.26	1005.22	0.68	ppb
Vanadium	51-2	1008.80	997.67	995.77	1000.75	0.70	ppb
Yttrium	89-1				88		%
Yttrium	89-2				86		%
Zinc	66-2	10059.78	9926.23	9834.23	9940.08	1.14	ppb
Zirconium	90-1	995.27	991.65	1004.63	997.18	0.67	ppb
Zirconium	91-1	998.70	989.68	1007.03	998.47	0.87	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :S08Instrumnet Name :P7

Client Sample ID :S08Dilution Factor :1

Date & Time Acquired :2024-12-23 11:23:17DataFile Name :012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100056.97	99640.34	100901.08	100199.46	0.64	ppb
Antimony	121-1	0.64	0.63	0.57	0.61	6.36	ppb
Arsenic	75-2	0.64	0.61	0.53	0.59	9.38	ppb
Barium	135-1	2.89	2.69	2.45	2.68	8.39	ppb
Barium	137-1	2.81	2.79	2.50	2.70	6.41	ppb
Beryllium	9-1	0.36	0.31	0.31	0.32	8.09	ppb
Bismuth	209-1				88		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.43	0.71	0.43	0.52	31.24	ppb
Cadmium	106-1	-1.02	-0.25	-0.60	-0.62		ppb
Cadmium	111-1	0.22	0.23	0.21	0.22	4.75	ppb
Calcium	43-1	470444.93	517213.20	509687.30	499115.15	5.03	ppb
Calcium	44-1	473953.28	512752.71	511054.49	499253.49	4.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.30	1.22	1.28	1.27	3.25	ppb
Cobalt	59-2	2.46	2.48	2.54	2.49	1.83	ppb
Copper	63-2	1.95	1.77	1.70	1.80	7.11	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				96		%
Indium	115-1				85		%
Indium	115-2				85		%
Iron	56-2	249046.45	249758.50	250093.63	249632.86	0.21	ppb
Iron	57-2	248166.08	249116.92	251677.97	249653.66	0.73	ppb
Iron	54-2	248371.34	251217.33	248907.51	249498.72	0.61	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:23:17 DataFile Name : 012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.85	1.65	1.47	1.66	11.64	ppb
Lead	207-1	1.82	1.70	1.52	1.68	9.02	ppb
Lead	208-1	1.83	1.66	1.47	1.65	10.96	ppb
Lithium	6-1				98		%
Magnesium	24-2	502102.86	502054.27	501509.57	501888.90	0.07	ppb
Manganese	55-2	5.11	4.46	4.26	4.61	9.67	ppb
Molybdenum	94-1	4.14	3.76	3.17	3.69	13.30	ppb
Molybdenum	95-1	3.27	2.79	2.23	2.76	18.88	ppb
Molybdenum	96-1	4.91	4.48	3.88	4.43	11.69	ppb
Molybdenum	97-1	3.13	2.80	2.26	2.73	16.17	ppb
Molybdenum	98-1	3.11	2.71	2.19	2.67	17.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.17	3.30	3.13	3.20	2.84	ppb
Phosphorus	31-2	-4.23	-8.79	-10.47	-7.83		ppb
Potassium	39-2	249481.06	250188.45	251113.00	250260.83	0.33	ppb
Rhodium	103-1				80		%
Rhodium	103-2				80		%
Scandium	45-1				88		%
Scandium	45-2				88		%
Selenium	82-1	0.88	0.98	1.06	0.97	9.42	ppb
Selenium	77-2	-0.16	0.02	0.02	-0.04		ppb
Selenium	78-2	-1.22	-0.94	-1.39	-1.18		ppb
Silicon	28-1	-2.25	2.65	1.43	0.61	420.07	ppb
Silver	107-1	0.31	0.27	0.22	0.27	17.62	ppb
Silver	109-1	0.30	0.27	0.22	0.26	16.25	ppb
Sodium	23-2	495608.51	502215.58	503172.42	500332.17	0.82	ppb
Strontium	86-1	70.65	77.07	73.36	73.70	4.37	ppb
Strontium	88-1	74.37	76.65	75.89	75.64	1.54	ppb
Sulfur	34-1	-659.34	-371.62	-292.20	-441.06		ppb
Terbium	159-1				94		%
Terbium	159-2				95		%
Thallium	203-1	0.27	0.21	0.19	0.22	18.07	ppb
Thallium	205-1	0.26	0.22	0.18	0.22	17.49	ppb
Tin	118-1	0.41	0.40	0.33	0.38	11.49	ppb
Titanium	47-1	3.12	2.72	2.17	2.67	17.76	ppb

LB Number :LB134068

Operator :Jaswal

Lab Sample ID :S08

Instrumnet Name :P7

Client Sample ID :S08

Dilution Factor :1

Date & Time Acquired :2024-12-23 11:23:17

DataFile Name :012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.26	0.22	0.17	0.22	21.98	ppb
Vanadium	51-2	0.22	0.21	0.20	0.21	4.93	ppb
Yttrium	89-1				88		%
Yttrium	89-2				88		%
Zinc	66-2	6.99	6.82	6.81	6.87	1.45	ppb
Zirconium	90-1	0.73	0.73	0.66	0.71	6.09	ppb
Zirconium	91-1	0.76	0.72	0.66	0.71	7.13	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :ICV007Instrumnet Name :P7

Client Sample ID :ICV007Dilution Factor :1

Date & Time Acquired :2024-12-23 12:06:59DataFile Name :017ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	477.31	474.07	474.05	475.15	0.40	ppb
Antimony	121-1	212.53	210.86	215.03	212.81	0.99	ppb
Arsenic	75-2	215.17	218.71	218.60	217.49	0.92	ppb
Barium	135-1	99.82	100.43	100.89	100.38	0.53	ppb
Barium	137-1	101.33	101.86	102.31	101.83	0.48	ppb
Beryllium	9-1	106.22	109.98	105.39	107.20	2.28	ppb
Bismuth	209-1				102		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	95.73	97.55	100.45	97.91	2.43	ppb
Cadmium	106-1	94.30	93.66	96.55	94.84	1.60	ppb
Cadmium	111-1	107.66	107.22	108.49	107.79	0.60	ppb
Calcium	43-1	2100.13	2098.90	2092.76	2097.26	0.19	ppb
Calcium	44-1	2114.85	2131.20	2109.10	2118.38	0.54	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	103.25	103.53	104.62	103.80	0.70	ppb
Cobalt	59-2	102.30	102.02	102.77	102.36	0.37	ppb
Copper	63-2	97.46	96.99	97.52	97.32	0.30	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				100		%
Indium	115-1				97		%
Indium	115-2				95		%
Iron	56-2	2025.65	2012.69	2041.12	2026.49	0.70	ppb
Iron	57-2	2085.50	2089.97	2076.00	2083.82	0.34	ppb
Iron	54-2	2176.10	2171.60	2169.47	2172.39	0.16	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICV007 Instrumnet Name : P7
Client Sample ID : ICV007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:06:59 DataFile Name : 017ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	204.87	199.68	202.64	202.39	1.29	ppb
Lead	207-1	177.90	178.48	181.24	179.21	1.00	ppb
Lead	208-1	194.18	193.37	194.91	194.15	0.40	ppb
Lithium	6-1				106		%
Magnesium	24-2	1106.35	1100.31	1105.70	1104.12	0.30	ppb
Manganese	55-2	100.36	100.96	100.38	100.57	0.34	ppb
Molybdenum	94-1	0.02	0.03	0.01	0.02	57.71	ppb
Molybdenum	95-1	0.02	0.02	0.02	0.02	11.60	ppb
Molybdenum	96-1	0.05	0.04	0.03	0.04	18.72	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	7.10	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	12.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	105.17	104.50	104.62	104.76	0.34	ppb
Phosphorus	31-2	-12.15	-12.66	-17.37	-14.06		ppb
Potassium	39-2	1926.10	1924.85	2025.88	1958.94	2.96	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				97		%
Scandium	45-2				95		%
Selenium	82-1	216.99	219.95	216.70	217.88	0.82	ppb
Selenium	77-2	224.77	224.59	227.88	225.75	0.82	ppb
Selenium	78-2	216.27	223.69	225.10	221.69	2.14	ppb
Silicon	28-1	-7.72	-7.29	-7.70	-7.57		ppb
Silver	107-1	50.85	51.57	52.27	51.57	1.38	ppb
Silver	109-1	50.74	51.48	51.65	51.29	0.94	ppb
Sodium	23-2	1946.08	1935.58	1914.69	1932.12	0.83	ppb
Strontium	86-1	5.74	5.59	5.71	5.68	1.41	ppb
Strontium	88-1	6.00	5.81	6.05	5.95	2.12	ppb
Sulfur	34-1	-143.00	-101.77	-112.50	-119.09		ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	200.59	197.44	201.19	199.74	1.01	ppb
Thallium	205-1	197.34	198.31	198.37	198.01	0.29	ppb
Tin	118-1	0.01	0.01	0.01	0.01	4.42	ppb
Titanium	47-1	0.02	0.02	0.00	0.01	93.22	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

ICV007

Instrumnet Name :

P7

Client Sample ID :

ICV007

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 12:06:59

DataFile Name :

017ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	39.53	ppb
Vanadium	51-2	101.01	100.84	100.62	100.82	0.19	ppb
Yttrium	89-1				97		%
Yttrium	89-2				95		%
Zinc	66-2	198.54	197.78	196.51	197.61	0.52	ppb
Zirconium	90-1	0.01	0.00	0.01	0.00	25.22	ppb
Zirconium	91-1	0.04	0.05	0.06	0.05	17.14	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :ICB007Instrumnet Name :P7

Client Sample ID :ICB007Dilution Factor :1

Date & Time Acquired :2024-12-23 12:25:40DataFile Name :021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.10	0.07	0.01	0.06	71.31	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	18.62	ppb
Arsenic	75-2	-0.02	-0.02	-0.01	-0.01		ppb
Barium	135-1	0.00	-0.01	0.00	0.00		ppb
Barium	137-1	0.00	0.00	0.01	0.00	188.07	ppb
Beryllium	9-1	0.00	-0.03	0.00	-0.01		ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.08	0.02	0.03	0.04	74.09	ppb
Cadmium	106-1	-1.12	-1.42	-1.15	-1.23		ppb
Cadmium	111-1	-0.08	-0.10	-0.09	-0.09		ppb
Calcium	43-1	4.21	2.40	3.24	3.29	27.52	ppb
Calcium	44-1	-1.79	-1.11	-1.22	-1.37		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.03	-0.02	-0.02		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.02	-0.01	0.01	0.01	190.21	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				99		%
Indium	115-1				97		%
Indium	115-2				96		%
Iron	56-2	-0.09	-0.03	-0.07	-0.06		ppb
Iron	57-2	0.22	0.78	0.57	0.52	53.70	ppb
Iron	54-2	1.07	0.68	0.71	0.82	26.11	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICB007 Instrumnet Name : P7
Client Sample ID : ICB007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:25:40 DataFile Name : 021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.01	0.00	0.00	106.85	ppb
Lead	207-1	0.01	0.01	0.01	0.01	14.22	ppb
Lead	208-1	0.01	0.01	0.01	0.01	16.44	ppb
Lithium	6-1				102		%
Magnesium	24-2	0.21	0.18	0.11	0.17	31.04	ppb
Manganese	55-2	-0.01	0.01	0.00	0.00		ppb
Molybdenum	94-1	-0.01	-0.01	-0.01	-0.01		ppb
Molybdenum	95-1	0.00	0.00	0.01	0.00	56.51	ppb
Molybdenum	96-1	0.00	-0.01	0.00	0.00		ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	59.98	ppb
Molybdenum	98-1	0.00	-0.01	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.01	0.00	0.00		ppb
Phosphorus	31-2	-17.14	-16.36	-13.34	-15.61		ppb
Potassium	39-2	1.47	2.04	2.24	1.92	20.63	ppb
Rhodium	103-1				97		%
Rhodium	103-2				97		%
Scandium	45-1				97		%
Scandium	45-2				97		%
Selenium	82-1	-0.29	-0.31	-0.45	-0.35		ppb
Selenium	77-2	-0.16	-0.16	-0.16	-0.16		ppb
Selenium	78-2	-0.65	-1.86	-0.79	-1.10		ppb
Silicon	28-1	-4.74	-4.80	-5.57	-5.04		ppb
Silver	107-1	0.00	0.01	0.00	0.01	29.10	ppb
Silver	109-1	0.01	0.00	0.01	0.01	29.14	ppb
Sodium	23-2	-0.02	0.05	0.03	0.02	192.15	ppb
Strontium	86-1	-0.01	0.15	-0.27	-0.04		ppb
Strontium	88-1	0.03	-0.02	-0.01	0.00		ppb
Sulfur	34-1	167.91	107.31	53.55	109.59	52.21	ppb
Terbium	159-1				97		%
Terbium	159-2				98		%
Thallium	203-1	0.00	0.01	0.00	0.00	856.91	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	92.71	ppb
Tin	118-1	0.01	0.02	0.01	0.01	48.58	ppb
Titanium	47-1	0.01	0.00	-0.01	0.00		ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

ICB007

Instrumnet Name :

P7

Client Sample ID :

ICB007

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 12:25:40

DataFile Name :

021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	73.35	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	477.26	ppb
Yttrium	89-1				97		%
Yttrium	89-2				97		%
Zinc	66-2	0.04	0.02	0.04	0.03	33.14	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	398.64	ppb
Zirconium	91-1	0.00	0.00	-0.01	0.00		ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :ICSA007Instrumnet Name :P7

Client Sample ID :ICSA007Dilution Factor :1

Date & Time Acquired :2024-12-23 12:29:38DataFile Name :022ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	93288.72	93231.23	93599.84	93373.26	0.21	ppb
Antimony	121-1	1.12	1.11	1.11	1.11	0.74	ppb
Arsenic	75-2	0.30	0.37	0.38	0.35	11.92	ppb
Barium	135-1	1.45	1.34	1.39	1.40	4.00	ppb
Barium	137-1	1.40	1.42	1.43	1.42	0.80	ppb
Beryllium	9-1	0.31	0.28	0.30	0.30	5.77	ppb
Bismuth	209-1				98		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	9.74	9.37	8.88	9.33	4.67	ppb
Cadmium	106-1	-1.62	-2.41	-2.65	-2.22		ppb
Cadmium	111-1	0.26	0.23	0.17	0.22	19.37	ppb
Calcium	43-1	103466.27	102323.46	105595.69	103795.14	1.60	ppb
Calcium	44-1	103058.98	101867.83	105154.91	103360.57	1.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.69	20.87	20.78	20.78	0.42	ppb
Cobalt	59-2	1.31	1.19	1.27	1.26	4.69	ppb
Copper	63-2	7.30	7.19	7.15	7.22	1.10	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				100		%
Indium	115-1				91		%
Indium	115-2				89		%
Iron	56-2	107012.82	104547.86	105416.03	105658.91	1.18	ppb
Iron	57-2	106049.52	104501.31	104891.57	105147.46	0.77	ppb
Iron	54-2	105830.05	105004.62	104986.88	105273.85	0.46	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICSA007 Instrumnet Name : P7
Client Sample ID : ICSA007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:29:38 DataFile Name : 022ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4.78	4.91	4.98	4.89	2.01	ppb
Lead	207-1	4.30	4.43	4.41	4.38	1.62	ppb
Lead	208-1	4.49	4.59	4.59	4.56	1.29	ppb
Lithium	6-1				101		%
Magnesium	24-2	95440.82	94504.69	94140.44	94695.32	0.71	ppb
Manganese	55-2	8.46	8.38	8.26	8.36	1.20	ppb
Molybdenum	94-1	1639.01	1629.20	1647.97	1638.73	0.57	ppb
Molybdenum	95-1	1996.84	2006.22	2033.96	2012.34	0.96	ppb
Molybdenum	96-1	1982.92	2008.00	1993.10	1994.68	0.63	ppb
Molybdenum	97-1	1986.85	2043.13	2025.13	2018.37	1.42	ppb
Molybdenum	98-1	2003.53	2031.76	2019.23	2018.17	0.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.52	5.48	5.37	5.46	1.41	ppb
Phosphorus	31-2	103879.63	102850.30	103763.66	103497.86	0.54	ppb
Potassium	39-2	100085.54	99936.03	100529.74	100183.77	0.31	ppb
Rhodium	103-1				88		%
Rhodium	103-2				86		%
Scandium	45-1				91		%
Scandium	45-2				87		%
Selenium	82-1	-0.08	-0.23	-0.23	-0.18		ppb
Selenium	77-2	0.02	0.19	0.19	0.13	73.67	ppb
Selenium	78-2	-1.12	-1.57	-1.19	-1.29		ppb
Silicon	28-1	-3.68	-5.02	-3.67	-4.13		ppb
Silver	107-1	0.05	0.04	0.03	0.04	24.72	ppb
Silver	109-1	0.05	0.04	0.04	0.04	14.54	ppb
Sodium	23-2	100408.10	100464.99	100167.65	100346.92	0.16	ppb
Strontium	86-1	860.09	861.29	859.90	860.43	0.09	ppb
Strontium	88-1	852.18	861.26	863.25	858.90	0.69	ppb
Sulfur	34-1	103256.55	101879.85	104626.57	103254.32	1.33	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	0.10	0.10	0.10	0.10	2.56	ppb
Thallium	205-1	0.11	0.10	0.09	0.10	9.62	ppb
Tin	118-1	0.24	0.23	0.21	0.23	6.83	ppb
Titanium	47-1	2060.97	2042.92	2073.92	2059.27	0.76	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

ICSA007

Instrumnet Name :

P7

Client Sample ID :

ICSA007

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 12:29:38

DataFile Name :

022ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.02	0.02	5.38	ppb
Vanadium	51-2	0.17	0.18	0.16	0.17	6.08	ppb
Yttrium	89-1				92		%
Yttrium	89-2				90		%
Zinc	66-2	11.28	11.55	11.43	11.42	1.17	ppb
Zirconium	90-1	0.02	0.02	0.03	0.02	24.61	ppb
Zirconium	91-1	0.03	0.04	0.03	0.03	12.15	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :ICSAB007Instrumnet Name :P7

Client Sample ID :ICSAB007Dilution Factor :1

Date & Time Acquired :2024-12-23 12:32:42DataFile Name :023ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	91965.04	90983.78	92105.70	91684.84	0.67	ppb
Antimony	121-1	19.82	21.10	21.35	20.76	3.96	ppb
Arsenic	75-2	20.97	21.65	21.45	21.36	1.64	ppb
Barium	135-1	19.80	20.86	21.14	20.60	3.45	ppb
Barium	137-1	19.97	21.69	21.72	21.13	4.75	ppb
Beryllium	9-1	20.42	21.54	21.13	21.03	2.71	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	24.46	27.23	26.23	25.97	5.40	ppb
Cadmium	106-1	14.68	15.96	15.91	15.52	4.66	ppb
Cadmium	111-1	18.40	19.94	20.11	19.48	4.84	ppb
Calcium	43-1	97190.00	103881.55	104064.39	101711.98	3.85	ppb
Calcium	44-1	96309.68	102850.59	105002.21	101387.50	4.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40.99	40.92	40.96	40.95	0.08	ppb
Cobalt	59-2	21.49	21.16	21.36	21.34	0.78	ppb
Copper	63-2	26.17	25.68	25.88	25.91	0.96	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				101		%
Indium	115-1				95		%
Indium	115-2				91		%
Iron	56-2	103515.61	103586.22	103774.75	103625.53	0.13	ppb
Iron	57-2	103669.26	101246.17	102457.31	102457.58	1.18	ppb
Iron	54-2	103956.41	104349.14	103607.56	103971.04	0.36	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICSAB007 Instrumnet Name : P7
Client Sample ID : ICSAB007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:32:42 DataFile Name : 023ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	23.29	24.65	24.77	24.24	3.39	ppb
Lead	207-1	22.07	23.16	23.18	22.80	2.79	ppb
Lead	208-1	22.55	23.55	23.61	23.24	2.55	ppb
Lithium	6-1				101		%
Magnesium	24-2	93590.59	92518.51	93439.60	93182.90	0.62	ppb
Manganese	55-2	28.16	27.90	28.43	28.16	0.94	ppb
Molybdenum	94-1	1536.17	1646.73	1629.61	1604.17	3.71	ppb
Molybdenum	95-1	1862.89	1979.68	1982.27	1941.61	3.51	ppb
Molybdenum	96-1	1856.94	1947.61	1969.38	1924.64	3.10	ppb
Molybdenum	97-1	1873.82	1964.92	2004.80	1947.85	3.45	ppb
Molybdenum	98-1	1885.96	1964.56	2002.63	1951.05	3.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.02	25.49	25.04	25.18	1.05	ppb
Phosphorus	31-2	102010.17	102033.85	102309.02	102117.68	0.16	ppb
Potassium	39-2	98372.97	98594.68	98409.86	98459.17	0.12	ppb
Rhodium	103-1				91		%
Rhodium	103-2				89		%
Scandium	45-1				93		%
Scandium	45-2				89		%
Selenium	82-1	18.95	21.65	20.42	20.34	6.65	ppb
Selenium	77-2	22.83	20.58	21.17	21.53	5.41	ppb
Selenium	78-2	21.54	20.03	21.15	20.91	3.74	ppb
Silicon	28-1	-5.62	-2.66	-1.53	-3.27		ppb
Silver	107-1	17.86	19.22	19.44	18.84	4.55	ppb
Silver	109-1	17.76	19.04	19.34	18.71	4.50	ppb
Sodium	23-2	98915.01	97478.19	99140.32	98511.17	0.92	ppb
Strontium	86-1	803.31	848.80	868.13	840.08	3.96	ppb
Strontium	88-1	795.38	844.88	858.74	833.00	4.00	ppb
Sulfur	34-1	95906.65	100370.66	103279.80	99852.37	3.72	ppb
Terbium	159-1				103		%
Terbium	159-2				100		%
Thallium	203-1	18.46	19.68	19.68	19.27	3.67	ppb
Thallium	205-1	18.50	19.41	19.53	19.15	2.95	ppb
Tin	118-1	0.13	0.16	0.17	0.16	14.72	ppb
Titanium	47-1	1914.46	2064.21	2061.04	2013.24	4.25	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

ICSAB007

Instrumnet Name :

P7

Client Sample ID :

ICSAB007

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 12:32:42

DataFile Name :

023ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.01	0.02	0.02	4.84	ppb
Vanadium	51-2	20.21	20.37	20.73	20.44	1.29	ppb
Yttrium	89-1				97		%
Yttrium	89-2				92		%
Zinc	66-2	31.83	30.96	31.62	31.47	1.44	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	17.06	ppb
Zirconium	91-1	0.01	0.02	0.03	0.02	40.41	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCV041Instrumnet Name :P7

Client Sample ID :CCV041Dilution Factor :1

Date & Time Acquired :2024-12-23 12:35:47DataFile Name :024CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51151.93	50763.98	50413.52	50776.48	0.73	ppb
Antimony	121-1	459.95	513.82	514.17	495.98	6.29	ppb
Arsenic	75-2	503.69	504.42	505.21	504.44	0.15	ppb
Barium	135-1	2373.45	2593.56	2580.30	2515.77	4.91	ppb
Barium	137-1	2365.10	2631.82	2626.06	2541.00	6.00	ppb
Beryllium	9-1	469.63	518.22	529.00	505.62	6.26	ppb
Bismuth	209-1				96		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	458.17	505.96	503.13	489.08	5.48	ppb
Cadmium	106-1	457.85	507.06	506.72	490.54	5.77	ppb
Cadmium	111-1	440.78	488.94	485.28	471.66	5.68	ppb
Calcium	43-1	237599.87	261497.12	267395.01	255497.33	6.18	ppb
Calcium	44-1	237710.68	263626.48	265018.30	255451.82	6.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	508.48	504.89	505.16	506.18	0.40	ppb
Cobalt	59-2	497.99	489.92	488.86	492.26	1.01	ppb
Copper	63-2	4837.52	4824.50	4755.69	4805.90	0.91	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				98		%
Indium	115-1				90		%
Indium	115-2				86		%
Iron	56-2	129626.88	128593.74	127039.27	128419.96	1.01	ppb
Iron	57-2	129432.58	128077.71	127094.45	128201.58	0.92	ppb
Iron	54-2	129283.58	128126.12	128298.97	128569.56	0.49	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV041 Instrumnet Name : P7
Client Sample ID : CCV041 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:35:47 DataFile Name : 024CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2349.73	2614.96	2588.49	2517.73	5.80	ppb
Lead	207-1	2356.43	2631.37	2633.45	2540.42	6.27	ppb
Lead	208-1	2364.04	2622.38	2632.53	2539.65	5.99	ppb
Lithium	6-1				98		%
Magnesium	24-2	240801.67	239310.21	237686.87	239266.25	0.65	ppb
Manganese	55-2	5053.81	4968.18	4961.01	4994.34	1.03	ppb
Molybdenum	94-1	4687.50	5174.03	5278.29	5046.61	6.25	ppb
Molybdenum	95-1	4630.22	5145.16	5274.13	5016.50	6.79	ppb
Molybdenum	96-1	4678.47	5218.99	5293.47	5063.64	6.63	ppb
Molybdenum	97-1	4665.97	5213.50	5258.28	5045.91	6.54	ppb
Molybdenum	98-1	4694.47	5200.81	5252.94	5049.41	6.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	473.44	468.59	465.36	469.13	0.87	ppb
Phosphorus	31-2	10154.80	10179.35	10065.96	10133.37	0.59	ppb
Potassium	39-2	125882.51	125749.16	125246.53	125626.07	0.27	ppb
Rhodium	103-1				86		%
Rhodium	103-2				84		%
Scandium	45-1				91		%
Scandium	45-2				88		%
Selenium	82-1	442.70	494.81	497.89	478.46	6.48	ppb
Selenium	77-2	503.30	486.90	476.35	488.85	2.78	ppb
Selenium	78-2	495.80	486.19	499.53	493.84	1.39	ppb
Silicon	28-1	187.10	211.88	211.85	203.61	7.02	ppb
Silver	107-1	463.83	503.81	508.00	491.88	4.96	ppb
Silver	109-1	464.74	510.45	504.60	493.27	5.04	ppb
Sodium	23-2	249551.88	246861.12	248253.85	248222.29	0.54	ppb
Strontium	86-1	11719.73	12820.77	13055.06	12531.85	5.69	ppb
Strontium	88-1	11611.27	12641.45	13100.78	12451.16	6.13	ppb
Sulfur	34-1	8581.05	9775.27	9965.67	9440.66	7.95	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	476.59	524.57	526.44	509.20	5.55	ppb
Thallium	205-1	479.57	524.29	525.82	509.89	5.15	ppb
Tin	118-1	468.26	515.50	515.39	499.71	5.45	ppb
Titanium	47-1	4706.14	5059.76	5176.74	4980.88	4.92	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV041 Instrumnet Name : P7
Client Sample ID : CCV041 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:35:47 DataFile Name : 024CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	476.91	525.93	518.80	507.21	5.22	ppb
Vanadium	51-2	509.36	505.93	508.31	507.87	0.35	ppb
Yttrium	89-1				93		%
Yttrium	89-2				89		%
Zinc	66-2	4781.91	4702.80	4709.62	4731.44	0.93	ppb
Zirconium	90-1	464.97	513.73	526.56	501.75	6.48	ppb
Zirconium	91-1	469.65	520.23	531.61	507.16	6.50	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCB041Instrumnet Name :P7

Client Sample ID :CCB041Dilution Factor :1

Date & Time Acquired :2024-12-23 12:43:41DataFile Name :026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.05	-0.04	0.01	0.01	666.41	ppb
Antimony	121-1	0.04	0.04	0.03	0.04	17.61	ppb
Arsenic	75-2	-0.01	-0.01	-0.01	-0.01		ppb
Barium	135-1	0.00	0.01	0.01	0.00	92.00	ppb
Barium	137-1	0.02	0.01	0.01	0.01	30.83	ppb
Beryllium	9-1	0.02	0.00	0.03	0.01	113.08	ppb
Bismuth	209-1				105		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	-0.01	0.02	0.01	217.22	ppb
Cadmium	106-1	-1.95	-1.73	-1.54	-1.74		ppb
Cadmium	111-1	-0.13	-0.12	-0.10	-0.12		ppb
Calcium	43-1	1.87	0.55	1.34	1.25	52.93	ppb
Calcium	44-1	-0.88	-1.59	-1.28	-1.25		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.01	-0.03	-0.01		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.03	0.04	0.03	0.03	12.92	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				100		%
Indium	115-1				96		%
Indium	115-2				95		%
Iron	56-2	0.35	0.31	0.22	0.29	22.62	ppb
Iron	57-2	-0.43	-0.02	0.29	-0.05		ppb
Iron	54-2	-0.12	0.44	0.25	0.19	147.54	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB041 Instrumnet Name : P7
Client Sample ID : CCB041 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:43:41 DataFile Name : 026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.05	0.04	0.04	0.05	5.60	ppb
Lead	207-1	0.06	0.05	0.05	0.05	12.75	ppb
Lead	208-1	0.05	0.05	0.04	0.05	7.75	ppb
Lithium	6-1				104		%
Magnesium	24-2	0.91	0.86	0.83	0.87	4.53	ppb
Manganese	55-2	0.02	0.01	0.02	0.02	39.32	ppb
Molybdenum	94-1	0.05	0.05	0.05	0.05	6.66	ppb
Molybdenum	95-1	0.05	0.06	0.04	0.05	17.20	ppb
Molybdenum	96-1	0.04	0.05	0.04	0.04	12.73	ppb
Molybdenum	97-1	0.04	0.04	0.04	0.04	5.55	ppb
Molybdenum	98-1	0.05	0.05	0.04	0.05	11.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	0.00	0.00	-0.01		ppb
Phosphorus	31-2	-9.74	-17.41	-16.61	-14.59		ppb
Potassium	39-2	-0.16	0.48	1.00	0.44	132.95	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				95		%
Scandium	45-2				91		%
Selenium	82-1	-0.25	-0.43	-0.53	-0.41		ppb
Selenium	77-2	-0.16	-0.16	-0.16	-0.16		ppb
Selenium	78-2	-1.44	-0.78	-1.55	-1.25		ppb
Silicon	28-1	-11.60	-11.77	-11.44	-11.60		ppb
Silver	107-1	0.01	0.01	0.01	0.01	15.00	ppb
Silver	109-1	0.01	0.01	0.01	0.01	11.14	ppb
Sodium	23-2	14.06	13.80	13.71	13.86	1.30	ppb
Strontium	86-1	0.06	-0.08	-0.47	-0.16		ppb
Strontium	88-1	0.07	0.06	0.08	0.07	11.99	ppb
Sulfur	34-1	-329.77	-340.53	-314.07	-328.13		ppb
Terbium	159-1				99		%
Terbium	159-2				100		%
Thallium	203-1	0.03	0.02	0.02	0.03	19.98	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	5.61	ppb
Tin	118-1	0.00	0.04	0.00	0.01	192.85	ppb
Titanium	47-1	0.04	0.05	0.00	0.03	103.15	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCB041

Instrumnet Name :

P7

Client Sample ID :

CCB041

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 12:43:41

DataFile Name :

026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	19.68	ppb
Vanadium	51-2	0.01	0.00	0.00	0.00	123.90	ppb
Yttrium	89-1				96		%
Yttrium	89-2				93		%
Zinc	66-2	0.03	0.02	0.09	0.05	79.16	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	12.64	ppb
Zirconium	91-1	0.00	0.01	0.02	0.01	81.99	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

PB165834BL

Instrumnet Name :

P7

Client Sample ID :

PBW834

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 12:56:05

DataFile Name :

029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.78	0.57	0.88	0.75	21.65	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	16.70	ppb
Arsenic	75-2	-0.01	-0.01	0.00	-0.01		ppb
Barium	135-1	0.01	0.00	0.01	0.00	131.55	ppb
Barium	137-1	0.01	-0.01	0.00	0.00	668.79	ppb
Beryllium	9-1	0.00	0.01	0.01	0.01	65.90	ppb
Bismuth	209-1				103		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.05	-0.03	0.04	0.02	242.09	ppb
Cadmium	106-1	-1.02	-1.45	-1.22	-1.23		ppb
Cadmium	111-1	-0.08	-0.10	-0.08	-0.09		ppb
Calcium	43-1	1.02	2.21	1.70	1.64	36.38	ppb
Calcium	44-1	-1.93	-1.94	-0.73	-1.53		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.01	0.01	0.00	234.22	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	79.65	ppb
Copper	63-2	0.06	0.05	0.06	0.06	17.92	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				100		%
Indium	115-1				96		%
Indium	115-2				97		%
Iron	56-2	0.04	0.15	-0.02	0.06	151.27	ppb
Iron	57-2	0.29	0.05	0.22	0.18	66.68	ppb
Iron	54-2	0.18	-0.13	0.91	0.32	167.33	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165834BL Instrumnet Name : P7
Client Sample ID : PBW834 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:56:05 DataFile Name : 029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.01	0.01	0.01	0.01	19.10	ppb
Lead	207-1	0.01	0.01	0.02	0.02	26.55	ppb
Lead	208-1	0.01	0.01	0.02	0.02	17.96	ppb
Lithium	6-1				103		%
Magnesium	24-2	1.00	0.61	0.70	0.77	26.80	ppb
Manganese	55-2	0.04	0.06	0.04	0.05	16.97	ppb
Molybdenum	94-1	0.00	-0.01	0.00	0.00		ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	19.97	ppb
Molybdenum	96-1	0.00	0.01	0.00	0.00	224.32	ppb
Molybdenum	97-1	0.00	0.01	0.01	0.01	86.45	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	20.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	0.00	-0.01	-0.01		ppb
Phosphorus	31-2	-17.13	-12.98	-18.04	-16.05		ppb
Potassium	39-2	1.13	0.65	3.04	1.61	78.92	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				95		%
Scandium	45-2				95		%
Selenium	82-1	-0.30	0.03	-0.85	-0.37		ppb
Selenium	77-2	-0.16	-0.16	-0.16	-0.16		ppb
Selenium	78-2	-0.73	-0.65	-1.45	-0.94		ppb
Silicon	28-1	-10.29	-8.16	-6.65	-8.37		ppb
Silver	107-1	0.01	0.01	0.01	0.01	3.05	ppb
Silver	109-1	0.01	0.01	0.01	0.01	14.25	ppb
Sodium	23-2	5.32	6.31	6.20	5.95	9.10	ppb
Strontium	86-1	-0.27	0.28	0.33	0.11	301.28	ppb
Strontium	88-1	0.01	0.02	0.04	0.02	52.69	ppb
Sulfur	34-1	-162.59	-29.58	81.74	-36.81		ppb
Terbium	159-1				97		%
Terbium	159-2				100		%
Thallium	203-1	0.02	0.01	0.02	0.01	21.96	ppb
Thallium	205-1	0.01	0.02	0.01	0.01	10.09	ppb
Tin	118-1	0.01	0.01	0.00	0.01	55.33	ppb
Titanium	47-1	0.02	0.01	-0.03	0.00		ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

PB165834BL

Instrumnet Name :

P7

Client Sample ID :

PBW834

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 12:56:05

DataFile Name :

029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	4.48	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Yttrium	89-1				95		%
Yttrium	89-2				96		%
Zinc	66-2	0.19	0.21	0.23	0.21	9.98	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	622.12	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	261.07	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :PB165834BSInstrumnet Name :P7

Client Sample ID :LCS834Dilution Factor :1

Date & Time Acquired :2024-12-23 12:59:23DataFile Name :030LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9752.09	9702.87	9697.23	9717.40	0.31	ppb
Antimony	121-1	503.75	520.40	518.04	514.06	1.75	ppb
Arsenic	75-2	513.50	510.80	501.93	508.74	1.19	ppb
Barium	135-1	2516.49	2544.33	2586.10	2548.97	1.37	ppb
Barium	137-1	2530.18	2587.85	2590.55	2569.52	1.33	ppb
Beryllium	9-1	486.20	493.69	486.83	488.91	0.85	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	511.13	526.24	526.90	521.42	1.71	ppb
Cadmium	106-1	512.66	527.09	527.85	522.53	1.64	ppb
Cadmium	111-1	491.89	505.79	509.30	502.33	1.83	ppb
Calcium	43-1	49853.73	51440.91	52025.82	51106.82	2.20	ppb
Calcium	44-1	49508.78	51597.17	51777.82	50961.25	2.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	499.95	503.49	499.44	500.96	0.44	ppb
Cobalt	59-2	497.81	504.33	505.48	502.54	0.82	ppb
Copper	63-2	5028.21	5038.86	5004.61	5023.89	0.35	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				98		%
Indium	115-1				93		%
Indium	115-2				89		%
Iron	56-2	25584.58	25583.41	25553.24	25573.74	0.07	ppb
Iron	57-2	25615.37	25585.75	25890.06	25697.06	0.65	ppb
Iron	54-2	25967.93	25986.97	25797.89	25917.59	0.40	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165834BS Instrumnet Name : P7
Client Sample ID : LCS834 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:59:23 DataFile Name : 030LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2416.22	2487.23	2423.82	2442.42	1.60	ppb
Lead	207-1	2422.50	2486.65	2455.91	2455.02	1.31	ppb
Lead	208-1	2405.21	2475.29	2445.30	2441.93	1.44	ppb
Lithium	6-1				107		%
Magnesium	24-2	46250.51	46726.33	46759.24	46578.69	0.61	ppb
Manganese	55-2	4948.81	5036.65	4964.32	4983.26	0.94	ppb
Molybdenum	94-1	4827.39	4906.34	4928.54	4887.42	1.09	ppb
Molybdenum	95-1	4866.90	4891.90	4972.02	4910.27	1.12	ppb
Molybdenum	96-1	4903.02	4921.19	4956.55	4926.92	0.55	ppb
Molybdenum	97-1	4859.01	4933.10	4953.65	4915.26	1.01	ppb
Molybdenum	98-1	4846.70	4942.35	4972.08	4920.37	1.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	481.74	480.86	484.10	482.24	0.35	ppb
Phosphorus	31-2	10118.54	10144.53	10084.87	10115.98	0.30	ppb
Potassium	39-2	24507.63	24653.41	24471.97	24544.34	0.39	ppb
Rhodium	103-1				92		%
Rhodium	103-2				88		%
Scandium	45-1				93		%
Scandium	45-2				87		%
Selenium	82-1	494.06	509.23	502.38	501.89	1.51	ppb
Selenium	77-2	515.27	519.94	497.73	510.98	2.29	ppb
Selenium	78-2	528.70	521.93	519.29	523.31	0.93	ppb
Silicon	28-1	501.89	504.83	513.05	506.59	1.14	ppb
Silver	107-1	516.46	522.46	531.66	523.53	1.46	ppb
Silver	109-1	518.39	522.98	535.90	525.75	1.73	ppb
Sodium	23-2	48976.80	49476.91	49386.49	49280.07	0.54	ppb
Strontium	86-1	12178.04	12645.20	12333.99	12385.74	1.92	ppb
Strontium	88-1	12116.85	12391.31	12305.78	12271.31	1.14	ppb
Sulfur	34-1	9615.01	9798.76	9877.19	9763.65	1.38	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	488.28	492.94	485.68	488.97	0.75	ppb
Thallium	205-1	481.41	491.65	481.59	484.88	1.21	ppb
Tin	118-1	499.73	514.70	518.78	511.07	1.96	ppb
Titanium	47-1	4892.31	4998.71	5022.52	4971.18	1.39	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

PB165834BS

Instrumnet Name :

P7

Client Sample ID :

LCS834

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 12:59:23

DataFile Name :

030LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	463.75	478.03	466.36	469.38	1.62	ppb
Vanadium	51-2	494.87	500.06	501.71	498.88	0.71	ppb
Yttrium	89-1				95		%
Yttrium	89-2				89		%
Zinc	66-2	5053.01	5044.58	5054.94	5050.84	0.11	ppb
Zirconium	90-1	483.26	491.89	491.48	488.88	1.00	ppb
Zirconium	91-1	481.70	489.39	501.89	491.00	2.08	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:02:02 DataFile Name : 031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	24920.21	24712.97	24590.30	24741.16	0.67	ppb
Antimony	121-1	0.29	0.24	0.20	0.24	19.07	ppb
Arsenic	75-2	1.42	1.36	1.52	1.43	5.58	ppb
Barium	135-1	41.88	41.89	41.99	41.92	0.14	ppb
Barium	137-1	42.35	42.44	42.82	42.54	0.58	ppb
Beryllium	9-1	0.82	0.67	0.74	0.74	10.07	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.31	0.34	0.25	0.30	16.00	ppb
Cadmium	106-1	1.27	1.19	1.15	1.20	5.09	ppb
Cadmium	111-1	0.26	0.23	0.20	0.23	11.65	ppb
Calcium	43-1	90026.54	90574.78	91079.54	90560.29	0.58	ppb
Calcium	44-1	88598.93	90420.31	90527.32	89848.86	1.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.99	8.14	7.94	8.02	1.28	ppb
Cobalt	59-2	68.79	68.62	68.42	68.61	0.27	ppb
Copper	63-2	15.96	15.87	15.66	15.83	1.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				100		%
Indium	115-1				92		%
Indium	115-2				91		%
Iron	56-2	215397.12	215596.92	214400.37	215131.47	0.30	ppb
Iron	57-2	213764.46	213157.66	211889.26	212937.13	0.45	ppb
Iron	54-2	213914.84	218112.61	213939.39	215322.28	1.12	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:02:02 DataFile Name : 031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.24	1.11	1.07	1.14	8.11	ppb
Lead	207-1	1.14	1.10	1.02	1.09	5.58	ppb
Lead	208-1	1.19	1.10	1.04	1.11	6.82	ppb
Lithium	6-1				98		%
Magnesium	24-2	38914.42	38543.14	38856.31	38771.29	0.52	ppb
Manganese	55-2	3343.12	3361.54	3318.81	3341.16	0.64	ppb
Molybdenum	94-1	2.00	1.85	1.83	1.89	4.80	ppb
Molybdenum	95-1	0.76	0.61	0.53	0.64	18.35	ppb
Molybdenum	96-1	2.09	1.92	1.86	1.96	6.24	ppb
Molybdenum	97-1	0.77	0.66	0.53	0.65	18.23	ppb
Molybdenum	98-1	0.75	0.55	0.49	0.60	23.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.51	27.49	27.15	27.38	0.74	ppb
Phosphorus	31-2	621.89	619.54	622.76	621.39	0.27	ppb
Potassium	39-2	741.41	741.35	734.89	739.22	0.51	ppb
Rhodium	103-1				88		%
Rhodium	103-2				89		%
Scandium	45-1				90		%
Scandium	45-2				88		%
Selenium	82-1	0.32	0.36	0.24	0.31	19.63	ppb
Selenium	77-2	16.42	15.15	16.24	15.94	4.32	ppb
Selenium	78-2	-0.04	1.43	0.92	0.77	96.90	ppb
Silicon	28-1	11047.89	11323.67	11335.07	11235.54	1.45	ppb
Silver	107-1	0.15	0.12	0.09	0.12	23.40	ppb
Silver	109-1	0.13	0.12	0.09	0.11	19.79	ppb
Sodium	23-2	12742.27	12706.69	12761.50	12736.82	0.22	ppb
Strontium	86-1	4048.09	4050.68	4083.22	4060.66	0.48	ppb
Strontium	88-1	4167.09	4214.13	4173.84	4185.02	0.61	ppb
Sulfur	34-1	243341.61	246619.44	245887.05	245282.70	0.70	ppb
Terbium	159-1				98		%
Terbium	159-2				98		%
Thallium	203-1	0.13	0.10	0.09	0.10	18.13	ppb
Thallium	205-1	0.11	0.10	0.09	0.10	12.55	ppb
Tin	118-1	0.28	0.25	0.24	0.25	8.05	ppb
Titanium	47-1	4.90	4.39	4.24	4.51	7.62	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-02DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-07-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:02:02

DataFile Name :

031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.57	2.58	2.47	2.54	2.46	ppb
Vanadium	51-2	248.98	250.62	249.15	249.58	0.36	ppb
Yttrium	89-1				118		%
Yttrium	89-2				116		%
Zinc	66-2	248.78	246.52	248.79	248.03	0.53	ppb
Zirconium	90-1	0.72	0.71	0.70	0.71	1.51	ppb
Zirconium	91-1	0.78	0.68	0.71	0.72	7.25	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5306-02DUPDLX5Instrumnet Name :P7

Client Sample ID :OU4-VSL-07-121224Dilution Factor :5

Date & Time Acquired :2024-12-23 13:05:13DataFile Name :032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	24613.57	24702.81	24295.10	24537.16	0.87	ppb
Antimony	121-1	0.07	0.07	0.07	0.07	4.78	ppb
Arsenic	75-2	1.59	1.37	1.44	1.46	7.82	ppb
Barium	135-1	40.78	41.69	41.19	41.22	1.11	ppb
Barium	137-1	42.13	42.45	42.75	42.44	0.73	ppb
Beryllium	9-1	0.70	0.63	0.70	0.68	6.16	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.30	0.23	0.17	0.23	29.27	ppb
Cadmium	106-1	1.54	1.56	1.09	1.40	19.00	ppb
Cadmium	111-1	0.20	0.19	0.17	0.19	6.85	ppb
Calcium	43-1	89562.98	89045.29	88348.25	88985.51	0.69	ppb
Calcium	44-1	89562.10	88737.89	88498.75	88932.91	0.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.70	7.81	7.82	7.77	0.83	ppb
Cobalt	59-2	67.96	68.89	68.36	68.40	0.68	ppb
Copper	63-2	15.54	15.41	15.21	15.38	1.06	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				101		%
Indium	115-1				93		%
Indium	115-2				93		%
Iron	56-2	213632.79	214765.60	213227.27	213875.22	0.37	ppb
Iron	57-2	212199.35	214301.36	213707.45	213402.72	0.51	ppb
Iron	54-2	213801.49	215773.32	214849.12	214807.98	0.46	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02DUPDLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:05:13 DataFile Name : 032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.89	0.88	0.90	0.89	0.86	ppb
Lead	207-1	0.82	0.84	0.79	0.82	3.21	ppb
Lead	208-1	0.85	0.85	0.82	0.84	2.29	ppb
Lithium	6-1				98		%
Magnesium	24-2	38504.19	38897.77	38391.39	38597.78	0.69	ppb
Manganese	55-2	3311.12	3356.99	3321.80	3329.97	0.72	ppb
Molybdenum	94-1	1.39	1.30	1.32	1.34	3.49	ppb
Molybdenum	95-1	0.21	0.18	0.17	0.19	10.99	ppb
Molybdenum	96-1	1.57	1.56	1.52	1.55	1.51	ppb
Molybdenum	97-1	0.23	0.20	0.16	0.19	17.10	ppb
Molybdenum	98-1	0.17	0.16	0.13	0.15	13.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.00	27.52	27.11	27.21	0.99	ppb
Phosphorus	31-2	627.60	625.17	624.07	625.61	0.29	ppb
Potassium	39-2	728.53	743.12	735.35	735.67	0.99	ppb
Rhodium	103-1				91		%
Rhodium	103-2				91		%
Scandium	45-1				93		%
Scandium	45-2				90		%
Selenium	82-1	0.41	0.29	0.41	0.37	19.75	ppb
Selenium	77-2	14.89	14.64	17.11	15.54	8.74	ppb
Selenium	78-2	1.76	1.04	1.13	1.31	30.01	ppb
Silicon	28-1	11027.01	11057.13	10943.56	11009.23	0.53	ppb
Silver	107-1	0.04	0.03	0.04	0.04	11.71	ppb
Silver	109-1	0.04	0.04	0.04	0.04	9.03	ppb
Sodium	23-2	12612.71	12790.35	12528.32	12643.79	1.06	ppb
Strontium	86-1	4054.77	4027.59	4035.14	4039.17	0.35	ppb
Strontium	88-1	4149.42	4146.20	4154.08	4149.90	0.10	ppb
Sulfur	34-1	239219.15	241805.47	240713.00	240579.21	0.54	ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	0.05	0.05	0.05	0.05	1.24	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	8.21	ppb
Tin	118-1	0.20	0.21	0.21	0.21	1.28	ppb
Titanium	47-1	3.91	3.78	3.73	3.80	2.42	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-02DUPDLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-07-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:05:13

DataFile Name :

032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.46	2.54	2.48	2.49	1.70	ppb
Vanadium	51-2	247.87	250.05	248.42	248.78	0.46	ppb
Yttrium	89-1				122		%
Yttrium	89-2				119		%
Zinc	66-2	245.64	248.16	246.72	246.84	0.51	ppb
Zirconium	90-1	0.62	0.60	0.59	0.60	2.36	ppb
Zirconium	91-1	0.66	0.63	0.60	0.63	4.79	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02LDLX25 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224L Dilution Factor : 25
Date & Time Acquired : 2024-12-23 13:08:22 DataFile Name : 033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5043.27	4995.42	5026.92	5021.87	0.48	ppb
Antimony	121-1	0.03	0.03	0.02	0.03	12.87	ppb
Arsenic	75-2	0.33	0.35	0.30	0.33	6.84	ppb
Barium	135-1	8.52	8.57	8.46	8.52	0.59	ppb
Barium	137-1	8.51	8.46	8.44	8.47	0.48	ppb
Beryllium	9-1	0.14	0.17	0.16	0.15	10.38	ppb
Bismuth	209-1				106		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.10	-0.02	0.07	0.05	116.64	ppb
Cadmium	106-1	-1.00	-1.53	-1.29	-1.27		ppb
Cadmium	111-1	-0.06	-0.09	-0.07	-0.07		ppb
Calcium	43-1	18265.69	18882.41	19005.22	18717.77	2.12	ppb
Calcium	44-1	17761.87	17773.88	18206.99	17914.25	1.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.67	1.58	1.62	1.62	2.68	ppb
Cobalt	59-2	14.30	13.89	14.01	14.07	1.48	ppb
Copper	63-2	3.25	3.29	3.28	3.27	0.61	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				103		%
Indium	115-1				99		%
Indium	115-2				97		%
Iron	56-2	44294.70	43914.22	44176.41	44128.44	0.44	ppb
Iron	57-2	43552.04	43213.16	43291.80	43352.33	0.41	ppb
Iron	54-2	44384.81	44277.16	43691.66	44117.88	0.85	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02LDLX25 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224L Dilution Factor : 25
Date & Time Acquired : 2024-12-23 13:08:22 DataFile Name : 033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.20	0.21	0.20	0.20	1.91	ppb
Lead	207-1	0.20	0.18	0.19	0.19	4.20	ppb
Lead	208-1	0.20	0.19	0.19	0.19	0.95	ppb
Lithium	6-1				101		%
Magnesium	24-2	7717.59	7806.84	7833.71	7786.05	0.78	ppb
Manganese	55-2	687.48	677.23	676.74	680.48	0.89	ppb
Molybdenum	94-1	0.31	0.31	0.34	0.32	5.95	ppb
Molybdenum	95-1	0.05	0.05	0.05	0.05	4.04	ppb
Molybdenum	96-1	0.38	0.38	0.37	0.38	1.93	ppb
Molybdenum	97-1	0.06	0.03	0.05	0.05	31.32	ppb
Molybdenum	98-1	0.03	0.03	0.02	0.03	8.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.76	5.72	5.52	5.67	2.24	ppb
Phosphorus	31-2	123.51	115.11	115.16	117.92	4.10	ppb
Potassium	39-2	147.04	147.23	147.68	147.31	0.22	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				97		%
Scandium	45-2				95		%
Selenium	82-1	0.23	-0.29	-0.37	-0.14		ppb
Selenium	77-2	3.84	3.39	4.15	3.80	10.06	ppb
Selenium	78-2	-0.69	-0.38	-0.87	-0.65		ppb
Silicon	28-1	2196.13	2275.42	2285.08	2252.21	2.17	ppb
Silver	107-1	0.01	0.01	0.01	0.01	24.42	ppb
Silver	109-1	0.01	0.01	0.01	0.01	11.38	ppb
Sodium	23-2	2562.85	2587.40	2553.28	2567.84	0.69	ppb
Strontium	86-1	969.57	993.24	980.48	981.10	1.21	ppb
Strontium	88-1	1002.56	1029.05	1025.42	1019.01	1.41	ppb
Sulfur	34-1	49203.96	49607.60	50188.05	49666.54	1.00	ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.02	0.02	0.02	0.02	18.54	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	6.32	ppb
Tin	118-1	0.06	0.06	0.07	0.06	5.03	ppb
Titanium	47-1	0.76	0.76	0.72	0.74	2.87	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-02LDLX25

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-07-121224L

Dilution Factor :

25

Date & Time Acquired :

2024-12-23 13:08:22

DataFile Name :

033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.47	0.49	0.47	0.48	1.91	ppb
Vanadium	51-2	50.52	50.48	50.27	50.43	0.27	ppb
Yttrium	89-1				105		%
Yttrium	89-2				102		%
Zinc	66-2	51.91	51.95	52.71	52.19	0.86	ppb
Zirconium	90-1	0.14	0.15	0.15	0.15	3.87	ppb
Zirconium	91-1	0.15	0.15	0.14	0.15	5.14	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5306-02MSDLX5Instrumnet Name :P7

Client Sample ID :OU4-VSL-07-121224Dilution Factor :5

Date & Time Acquired :2024-12-23 13:11:31DataFile Name :034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	25160.10	25210.30	25064.27	25144.89	0.30	ppb
Antimony	121-1	113.39	114.30	114.68	114.13	0.58	ppb
Arsenic	75-2	100.10	99.00	98.13	99.07	1.00	ppb
Barium	135-1	606.44	599.64	598.32	601.47	0.73	ppb
Barium	137-1	596.54	601.13	590.19	595.96	0.92	ppb
Beryllium	9-1	121.41	123.91	119.98	121.77	1.63	ppb
Bismuth	209-1				101		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	126.01	121.82	123.99	123.94	1.69	ppb
Cadmium	106-1	128.97	127.98	127.28	128.07	0.66	ppb
Cadmium	111-1	122.57	123.47	123.26	123.10	0.38	ppb
Calcium	43-1	93327.45	92761.74	92052.55	92713.92	0.69	ppb
Calcium	44-1	92517.29	93233.97	92567.03	92772.77	0.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	123.42	123.99	122.87	123.43	0.45	ppb
Cobalt	59-2	182.64	183.12	182.43	182.73	0.19	ppb
Copper	63-2	1023.09	1017.47	1014.88	1018.48	0.41	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				101		%
Indium	115-1				94		%
Indium	115-2				91		%
Iron	56-2	206815.95	209318.38	207686.18	207940.17	0.61	ppb
Iron	57-2	206559.84	208698.14	206363.30	207207.09	0.62	ppb
Iron	54-2	208259.55	210353.56	209643.22	209418.78	0.51	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02MSDLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:11:31 DataFile Name : 034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	479.47	477.37	471.93	476.25	0.82	ppb
Lead	207-1	480.05	489.40	490.85	486.77	1.20	ppb
Lead	208-1	475.33	483.34	479.73	479.47	0.84	ppb
Lithium	6-1				98		%
Magnesium	24-2	44940.23	44959.32	44788.07	44895.87	0.21	ppb
Manganese	55-2	4029.52	4097.61	4051.38	4059.50	0.86	ppb
Molybdenum	94-1	592.92	601.36	595.25	596.51	0.73	ppb
Molybdenum	95-1	513.02	519.71	524.49	519.08	1.11	ppb
Molybdenum	96-1	528.10	535.11	531.79	531.67	0.66	ppb
Molybdenum	97-1	519.67	522.57	518.37	520.20	0.41	ppb
Molybdenum	98-1	513.51	520.53	517.30	517.11	0.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	140.41	141.17	141.03	140.87	0.29	ppb
Phosphorus	31-2	590.30	592.55	579.58	587.48	1.18	ppb
Potassium	39-2	6111.94	6071.88	6033.71	6072.51	0.64	ppb
Rhodium	103-1				93		%
Rhodium	103-2				90		%
Scandium	45-1				95		%
Scandium	45-2				89		%
Selenium	82-1	92.77	95.76	94.46	94.33	1.59	ppb
Selenium	77-2	108.03	112.54	109.76	110.11	2.07	ppb
Selenium	78-2	95.65	104.65	100.97	100.42	4.51	ppb
Silicon	28-1	10366.20	10403.14	10359.02	10376.12	0.23	ppb
Silver	107-1	0.21	0.21	0.21	0.21	0.51	ppb
Silver	109-1	0.12	0.13	0.12	0.12	4.80	ppb
Sodium	23-2	21170.70	21224.09	20951.97	21115.59	0.68	ppb
Strontium	86-1	6014.09	6134.37	6131.80	6093.42	1.13	ppb
Strontium	88-1	6193.51	6362.18	6331.14	6295.61	1.43	ppb
Sulfur	34-1	225087.14	225095.37	225080.40	225087.64	0.00	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	106.73	108.86	107.59	107.73	0.99	ppb
Thallium	205-1	118.50	119.05	117.08	118.21	0.86	ppb
Tin	118-1	105.79	107.45	107.28	106.84	0.86	ppb
Titanium	47-1	421.60	419.40	423.30	421.43	0.46	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-02MSDLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-07-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:11:31

DataFile Name :

034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	115.15	116.36	118.14	116.55	1.29	ppb
Vanadium	51-2	362.25	356.52	355.64	358.13	1.00	ppb
Yttrium	89-1				122		%
Yttrium	89-2				116		%
Zinc	66-2	1174.73	1180.55	1166.01	1173.76	0.62	ppb
Zirconium	90-1	92.69	95.57	94.23	94.16	1.53	ppb
Zirconium	91-1	91.74	94.25	92.86	92.95	1.35	ppb

LB Number :	LB134068	Operator :	Jaswal
Lab Sample ID :	P5306-02MSDDLX5	Instrumnet Name :	P7
Client Sample ID :	OU4-VSL-07-121224	Dilution Factor :	5
Date & Time Acquired :	2024-12-23 13:14:22	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	24757.14	24625.31	24984.21	24788.89	0.73	ppb
Antimony	121-1	111.86	114.01	113.29	113.06	0.97	ppb
Arsenic	75-2	97.82	98.55	96.44	97.60	1.10	ppb
Barium	135-1	586.35	596.66	592.94	591.98	0.88	ppb
Barium	137-1	588.70	594.48	592.65	591.94	0.50	ppb
Beryllium	9-1	118.55	114.99	120.71	118.08	2.45	ppb
Bismuth	209-1				102		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	121.25	122.88	123.63	122.59	0.99	ppb
Cadmium	106-1	123.63	127.80	126.19	125.87	1.67	ppb
Cadmium	111-1	119.74	121.36	122.55	121.22	1.16	ppb
Calcium	43-1	93422.23	93459.48	93831.93	93571.21	0.24	ppb
Calcium	44-1	92267.31	93332.45	92969.66	92856.47	0.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	120.12	120.99	121.31	120.81	0.51	ppb
Cobalt	59-2	177.41	177.63	179.14	178.06	0.53	ppb
Copper	63-2	1009.00	1007.56	1022.94	1013.17	0.84	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				100		%
Indium	115-1				95		%
Indium	115-2				91		%
Iron	56-2	203883.96	203814.73	206407.14	204701.95	0.72	ppb
Iron	57-2	202900.40	202659.38	202886.07	202815.28	0.07	ppb
Iron	54-2	205023.22	204966.55	206975.89	205655.22	0.56	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02MSDDLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:14:22 DataFile Name : 035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	485.51	469.05	475.94	476.83	1.73	ppb
Lead	207-1	485.50	477.45	483.03	482.00	0.86	ppb
Lead	208-1	480.65	470.57	481.05	477.42	1.24	ppb
Lithium	6-1				99		%
Magnesium	24-2	44284.83	43901.09	44600.89	44262.27	0.79	ppb
Manganese	55-2	3978.34	3979.74	4017.15	3991.74	0.55	ppb
Molybdenum	94-1	587.01	590.96	599.68	592.55	1.09	ppb
Molybdenum	95-1	513.48	513.77	524.78	517.34	1.25	ppb
Molybdenum	96-1	527.38	527.38	534.42	529.73	0.77	ppb
Molybdenum	97-1	510.81	517.26	529.07	519.04	1.78	ppb
Molybdenum	98-1	511.99	516.45	521.49	516.64	0.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	137.27	136.96	137.43	137.22	0.17	ppb
Phosphorus	31-2	555.11	603.83	603.02	587.32	4.75	ppb
Potassium	39-2	5930.14	6027.25	6093.19	6016.86	1.36	ppb
Rhodium	103-1				92		%
Rhodium	103-2				90		%
Scandium	45-1				94		%
Scandium	45-2				90		%
Selenium	82-1	93.39	94.05	95.68	94.37	1.25	ppb
Selenium	77-2	109.70	108.89	105.22	107.94	2.21	ppb
Selenium	78-2	93.34	99.00	92.72	95.02	3.64	ppb
Silicon	28-1	10333.05	10350.36	10399.83	10361.08	0.33	ppb
Silver	107-1	0.21	0.21	0.22	0.21	3.61	ppb
Silver	109-1	0.12	0.12	0.12	0.12	1.70	ppb
Sodium	23-2	20748.07	20986.91	20939.36	20891.44	0.61	ppb
Strontium	86-1	6018.48	6092.78	6126.91	6079.39	0.91	ppb
Strontium	88-1	6241.40	6295.03	6239.16	6258.53	0.51	ppb
Sulfur	34-1	225374.10	224799.88	229491.62	226555.20	1.13	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	107.22	106.93	107.11	107.09	0.14	ppb
Thallium	205-1	116.50	115.51	115.98	115.99	0.43	ppb
Tin	118-1	105.26	107.09	108.40	106.92	1.48	ppb
Titanium	47-1	416.12	423.34	421.33	420.27	0.89	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-02MSDDLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-07-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:14:22

DataFile Name :

035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	116.10	115.97	116.61	116.23	0.29	ppb
Vanadium	51-2	352.52	353.83	351.29	352.55	0.36	ppb
Yttrium	89-1				121		%
Yttrium	89-2				115		%
Zinc	66-2	1155.11	1159.26	1164.55	1159.64	0.41	ppb
Zirconium	90-1	91.96	94.34	93.72	93.34	1.33	ppb
Zirconium	91-1	90.70	91.43	93.82	91.98	1.77	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5306-02ADLX5Instrumnet Name :P7

Client Sample ID :OU4-VSL-07-121224ADilution Factor :5

Date & Time Acquired :2024-12-23 13:17:16DataFile Name :036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	24758.91	25136.71	24873.70	24923.11	0.78	ppb
Antimony	121-1	113.14	114.95	114.83	114.31	0.89	ppb
Arsenic	75-2	96.56	99.59	97.46	97.87	1.59	ppb
Barium	135-1	582.35	607.30	603.04	597.56	2.23	ppb
Barium	137-1	592.08	607.36	610.72	603.39	1.65	ppb
Beryllium	9-1	119.79	121.50	122.49	121.26	1.13	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	120.58	124.20	122.50	122.43	1.48	ppb
Cadmium	106-1	125.27	128.07	126.21	126.52	1.13	ppb
Cadmium	111-1	120.79	124.53	123.18	122.83	1.54	ppb
Calcium	43-1	91445.87	93972.60	94974.65	93464.37	1.95	ppb
Calcium	44-1	92375.13	94454.39	94854.70	93894.74	1.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	122.61	123.64	122.12	122.79	0.63	ppb
Cobalt	59-2	188.83	187.88	180.45	185.72	2.47	ppb
Copper	63-2	1027.28	1031.94	1019.31	1026.18	0.62	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				101		%
Indium	115-1				95		%
Indium	115-2				93		%
Iron	56-2	209577.69	208656.92	207087.48	208440.70	0.60	ppb
Iron	57-2	208243.06	209148.94	204173.18	207188.39	1.28	ppb
Iron	54-2	210480.13	209537.93	207265.61	209094.56	0.79	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02ADLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224A Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:17:16 DataFile Name : 036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	476.02	485.48	488.23	483.24	1.32	ppb
Lead	207-1	490.52	496.73	490.99	492.75	0.70	ppb
Lead	208-1	481.42	487.80	488.07	485.77	0.77	ppb
Lithium	6-1				98		%
Magnesium	24-2	44323.96	45067.84	44792.59	44728.13	0.84	ppb
Manganese	55-2	4102.25	4087.36	4046.55	4078.72	0.71	ppb
Molybdenum	94-1	598.76	606.36	600.43	601.85	0.66	ppb
Molybdenum	95-1	527.26	526.53	529.39	527.73	0.28	ppb
Molybdenum	96-1	538.17	540.80	532.54	537.17	0.79	ppb
Molybdenum	97-1	528.03	530.79	524.52	527.78	0.60	ppb
Molybdenum	98-1	519.83	529.94	526.37	525.38	0.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	142.67	141.05	139.16	140.96	1.25	ppb
Phosphorus	31-2	591.95	594.62	591.97	592.85	0.26	ppb
Potassium	39-2	6094.58	5990.86	6135.47	6073.63	1.23	ppb
Rhodium	103-1				92		%
Rhodium	103-2				91		%
Scandium	45-1				94		%
Scandium	45-2				90		%
Selenium	82-1	94.16	95.21	95.48	94.95	0.73	ppb
Selenium	77-2	103.15	107.55	114.92	108.54	5.48	ppb
Selenium	78-2	97.24	98.45	97.05	97.58	0.78	ppb
Silicon	28-1	10026.18	10544.23	10684.06	10418.16	3.33	ppb
Silver	107-1	0.23	0.22	0.21	0.22	3.96	ppb
Silver	109-1	0.13	0.12	0.13	0.13	5.94	ppb
Sodium	23-2	20751.77	21200.74	21073.79	21008.77	1.10	ppb
Strontium	86-1	6109.52	6104.63	6146.79	6120.31	0.38	ppb
Strontium	88-1	6294.30	6291.40	6383.56	6323.09	0.83	ppb
Sulfur	34-1	221611.89	229403.25	230950.15	227321.76	2.20	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	107.10	107.57	108.34	107.67	0.58	ppb
Thallium	205-1	115.51	117.29	116.31	116.37	0.77	ppb
Tin	118-1	106.75	108.21	108.61	107.86	0.91	ppb
Titanium	47-1	414.63	431.62	434.36	426.87	2.50	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-02ADLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-07-121224A

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:17:16

DataFile Name :

036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	114.20	115.71	115.97	115.30	0.83	ppb
Vanadium	51-2	363.90	356.27	361.81	360.66	1.09	ppb
Yttrium	89-1				121		%
Yttrium	89-2				116		%
Zinc	66-2	1183.10	1193.66	1185.11	1187.29	0.47	ppb
Zirconium	90-1	94.24	95.67	95.32	95.08	0.78	ppb
Zirconium	91-1	93.14	93.79	93.93	93.62	0.45	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCV042

Instrumnet Name :

P7

Client Sample ID :

CCV042

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 13:20:07

DataFile Name :

037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50822.60	51386.56	51023.46	51077.54	0.56	ppb
Antimony	121-1	506.80	503.08	515.52	508.47	1.26	ppb
Arsenic	75-2	499.18	491.17	493.71	494.69	0.83	ppb
Barium	135-1	2550.59	2548.25	2589.90	2562.91	0.91	ppb
Barium	137-1	2588.22	2567.76	2616.76	2590.91	0.95	ppb
Beryllium	9-1	495.26	510.83	503.85	503.31	1.55	ppb
Bismuth	209-1				98		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	496.55	485.86	503.45	495.29	1.79	ppb
Cadmium	106-1	494.78	491.06	507.92	497.92	1.78	ppb
Cadmium	111-1	478.41	472.90	485.46	478.92	1.31	ppb
Calcium	43-1	255792.67	258248.10	267257.53	260432.77	2.32	ppb
Calcium	44-1	256635.32	257245.81	267178.08	260353.07	2.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	504.57	511.41	503.74	506.57	0.83	ppb
Cobalt	59-2	483.03	494.02	493.01	490.02	1.24	ppb
Copper	63-2	4809.15	4887.43	4858.66	4851.75	0.82	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				99		%
Indium	115-1				89		%
Indium	115-2				86		%
Iron	56-2	130081.09	130552.50	129277.11	129970.23	0.50	ppb
Iron	57-2	129832.98	129808.32	128803.17	129481.49	0.45	ppb
Iron	54-2	129872.23	130279.32	130956.11	130369.22	0.42	ppb
Krypton	83-1						cps

LB Number :	LB134068	Operator :	Jaswal
Lab Sample ID :	CCV042	Instrumnet Name :	P7
Client Sample ID :	CCV042	Dilution Factor :	1
Date & Time Acquired :	2024-12-23 13:20:07	DataFile Name :	037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2520.40	2575.37	2551.96	2549.24	1.08	ppb
Lead	207-1	2522.67	2565.37	2594.15	2560.73	1.40	ppb
Lead	208-1	2538.18	2566.07	2572.76	2559.00	0.72	ppb
Lithium	6-1				97		%
Magnesium	24-2	240984.62	243046.30	240815.79	241615.57	0.51	ppb
Manganese	55-2	5024.26	5031.97	5005.87	5020.70	0.27	ppb
Molybdenum	94-1	5083.90	5145.31	5216.64	5148.62	1.29	ppb
Molybdenum	95-1	5083.95	5152.26	5240.68	5158.96	1.52	ppb
Molybdenum	96-1	5101.94	5117.56	5243.55	5154.35	1.51	ppb
Molybdenum	97-1	5071.95	5087.72	5202.21	5120.63	1.39	ppb
Molybdenum	98-1	5080.08	5114.37	5171.98	5122.15	0.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	467.49	474.38	466.92	469.60	0.88	ppb
Phosphorus	31-2	10026.40	10110.79	10131.98	10089.72	0.55	ppb
Potassium	39-2	124743.07	127233.76	126401.17	126126.00	1.01	ppb
Rhodium	103-1				85		%
Rhodium	103-2				84		%
Scandium	45-1				89		%
Scandium	45-2				87		%
Selenium	82-1	478.78	486.61	496.25	487.22	1.80	ppb
Selenium	77-2	503.61	462.48	476.49	480.86	4.35	ppb
Selenium	78-2	497.07	491.42	490.76	493.08	0.70	ppb
Silicon	28-1	204.55	208.43	217.79	210.26	3.24	ppb
Silver	107-1	501.98	487.09	510.10	499.72	2.34	ppb
Silver	109-1	492.22	489.80	500.03	494.02	1.08	ppb
Sodium	23-2	248446.65	249296.91	250104.51	249282.69	0.33	ppb
Strontium	86-1	12661.39	12742.48	12908.54	12770.80	0.99	ppb
Strontium	88-1	12686.33	12901.75	12843.00	12810.36	0.87	ppb
Sulfur	34-1	9261.57	9585.75	10019.56	9622.29	3.95	ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	509.21	516.29	506.07	510.53	1.03	ppb
Thallium	205-1	507.96	511.87	513.19	511.00	0.53	ppb
Tin	118-1	508.03	499.32	515.43	507.60	1.59	ppb
Titanium	47-1	4949.07	5043.17	5169.32	5053.86	2.19	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCV042

Instrumnet Name :

P7

Client Sample ID :

CCV042

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 13:20:07

DataFile Name :

037CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	492.72	514.55	508.46	505.24	2.23	ppb
Vanadium	51-2	512.64	511.62	522.68	515.65	1.19	ppb
Yttrium	89-1				92		%
Yttrium	89-2				90		%
Zinc	66-2	4761.34	4816.23	4772.19	4783.25	0.61	ppb
Zirconium	90-1	505.98	507.82	515.87	509.89	1.03	ppb
Zirconium	91-1	503.94	512.15	522.22	512.77	1.79	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCB042Instrumnet Name :P7

Client Sample ID :CCB042Dilution Factor :1

Date & Time Acquired :2024-12-23 13:23:36DataFile Name :038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.35	2.88	2.71	2.98	11.10	ppb
Antimony	121-1	0.18	0.17	0.14	0.16	12.32	ppb
Arsenic	75-2	0.03	0.01	0.03	0.02	50.41	ppb
Barium	135-1	0.26	0.25	0.22	0.24	9.52	ppb
Barium	137-1	0.27	0.24	0.20	0.24	14.10	ppb
Beryllium	9-1	0.11	0.10	0.07	0.09	21.88	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.13	0.18	-0.02	0.10	103.13	ppb
Cadmium	106-1	-1.85	-1.51	-1.93	-1.76		ppb
Cadmium	111-1	-0.08	-0.05	-0.09	-0.07		ppb
Calcium	43-1	32.22	27.73	20.10	26.68	22.97	ppb
Calcium	44-1	27.72	25.91	20.81	24.81	14.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.01	0.03	0.02	68.45	ppb
Cobalt	59-2	0.03	0.03	0.02	0.03	20.05	ppb
Copper	63-2	0.39	0.33	0.29	0.34	15.90	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				97		%
Indium	115-2				95		%
Iron	56-2	11.06	10.36	9.28	10.24	8.76	ppb
Iron	57-2	10.03	11.07	8.65	9.92	12.22	ppb
Iron	54-2	12.01	10.58	8.72	10.44	15.77	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB042 Instrumnet Name : P7
Client Sample ID : CCB042 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:23:36 DataFile Name : 038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.30	0.26	0.24	0.27	11.62	ppb
Lead	207-1	0.31	0.28	0.23	0.28	15.50	ppb
Lead	208-1	0.30	0.27	0.24	0.27	12.33	ppb
Lithium	6-1				107		%
Magnesium	24-2	15.83	14.68	13.91	14.81	6.55	ppb
Manganese	55-2	0.38	0.36	0.30	0.34	12.01	ppb
Molybdenum	94-1	0.69	0.59	0.47	0.58	18.62	ppb
Molybdenum	95-1	0.64	0.55	0.44	0.55	18.59	ppb
Molybdenum	96-1	0.61	0.56	0.48	0.55	11.85	ppb
Molybdenum	97-1	0.62	0.54	0.49	0.55	12.02	ppb
Molybdenum	98-1	0.62	0.56	0.47	0.55	13.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.07	-0.01	0.02	0.03	142.98	ppb
Phosphorus	31-2	-12.08	-12.92	-11.04	-12.01		ppb
Potassium	39-2	8.95	8.74	6.35	8.01	18.03	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				94		%
Scandium	45-2				89		%
Selenium	82-1	-0.22	-0.25	-0.04	-0.17		ppb
Selenium	77-2	0.01	0.01	-0.16	-0.04		ppb
Selenium	78-2	-0.67	-0.98	-0.68	-0.78		ppb
Silicon	28-1	-13.30	-12.81	-12.17	-12.76		ppb
Silver	107-1	0.08	0.08	0.06	0.07	14.77	ppb
Silver	109-1	0.09	0.07	0.06	0.07	17.63	ppb
Sodium	23-2	26.85	25.66	23.99	25.50	5.63	ppb
Strontium	86-1	0.92	0.58	0.34	0.61	47.01	ppb
Strontium	88-1	1.46	1.42	1.21	1.36	9.77	ppb
Sulfur	34-1	-539.91	-528.72	-489.83	-519.49		ppb
Terbium	159-1				102		%
Terbium	159-2				100		%
Thallium	203-1	0.06	0.06	0.05	0.06	8.40	ppb
Thallium	205-1	0.07	0.06	0.06	0.06	10.97	ppb
Tin	118-1	0.08	0.06	0.06	0.07	14.16	ppb
Titanium	47-1	0.59	0.52	0.39	0.50	20.12	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCB042

Instrumnet Name :

P7

Client Sample ID :

CCB042

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 13:23:36

DataFile Name :

038CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.05	0.05	0.04	0.05	11.84	ppb
Vanadium	51-2	0.03	0.04	0.03	0.03	15.07	ppb
Yttrium	89-1				96		%
Yttrium	89-2				93		%
Zinc	66-2	0.30	0.32	0.34	0.32	6.11	ppb
Zirconium	90-1	0.06	0.06	0.05	0.06	8.24	ppb
Zirconium	91-1	0.06	0.07	0.05	0.06	17.56	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5306-04DLX5Instrumnet Name :P7

Client Sample ID :OU4-VSL-08-121224Dilution Factor :5

Date & Time Acquired :2024-12-23 13:27:13DataFile Name :039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	30341.01	30279.89	30025.33	30215.41	0.55	ppb
Antimony	121-1	0.07	0.08	0.08	0.08	5.68	ppb
Arsenic	75-2	1.83	1.53	1.64	1.67	8.86	ppb
Barium	135-1	37.70	38.45	39.13	38.43	1.86	ppb
Barium	137-1	38.63	39.28	39.42	39.11	1.07	ppb
Beryllium	9-1	0.39	0.41	0.37	0.39	4.96	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.12	0.18	0.20	0.17	24.71	ppb
Cadmium	106-1	1.58	0.48	0.09	0.72	107.29	ppb
Cadmium	111-1	0.21	0.13	0.10	0.15	40.42	ppb
Calcium	43-1	58313.05	58914.28	58621.01	58616.11	0.51	ppb
Calcium	44-1	57893.34	58376.31	59687.34	58652.33	1.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	12.92	13.01	12.98	12.97	0.36	ppb
Cobalt	59-2	60.16	60.51	60.99	60.55	0.69	ppb
Copper	63-2	27.39	27.48	27.06	27.31	0.81	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				100		%
Indium	115-1				94		%
Indium	115-2				91		%
Iron	56-2	173128.03	173833.97	174325.32	173762.44	0.35	ppb
Iron	57-2	171795.34	172544.94	172812.78	172384.35	0.31	ppb
Iron	54-2	173571.86	173959.49	174606.75	174046.03	0.30	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-04DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-08-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:27:13 DataFile Name : 039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.46	1.46	1.50	1.47	1.61	ppb
Lead	207-1	1.35	1.32	1.42	1.37	3.53	ppb
Lead	208-1	1.40	1.41	1.47	1.43	2.54	ppb
Lithium	6-1				101		%
Magnesium	24-2	42531.18	42529.86	42488.81	42516.62	0.06	ppb
Manganese	55-2	1893.84	1895.10	1920.09	1903.01	0.78	ppb
Molybdenum	94-1	1.12	1.16	1.10	1.13	2.72	ppb
Molybdenum	95-1	0.11	0.12	0.13	0.12	6.12	ppb
Molybdenum	96-1	1.22	1.26	1.20	1.23	2.43	ppb
Molybdenum	97-1	0.14	0.12	0.13	0.13	7.90	ppb
Molybdenum	98-1	0.10	0.09	0.11	0.10	8.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	54.45	55.24	54.70	54.80	0.73	ppb
Phosphorus	31-2	1191.92	1239.18	1203.75	1211.62	2.03	ppb
Potassium	39-2	864.51	872.28	877.15	871.31	0.73	ppb
Rhodium	103-1				91		%
Rhodium	103-2				90		%
Scandium	45-1				92		%
Scandium	45-2				87		%
Selenium	82-1	0.46	0.47	0.52	0.48	6.45	ppb
Selenium	77-2	11.50	12.14	14.72	12.78	13.33	ppb
Selenium	78-2	1.24	0.98	0.70	0.97	27.88	ppb
Silicon	28-1	9565.37	9718.09	9829.80	9704.42	1.37	ppb
Silver	107-1	0.04	0.04	0.04	0.04	6.60	ppb
Silver	109-1	0.03	0.04	0.03	0.03	4.19	ppb
Sodium	23-2	21446.28	21557.65	21478.67	21494.20	0.27	ppb
Strontium	86-1	3319.48	3341.92	3368.14	3343.18	0.73	ppb
Strontium	88-1	3447.30	3509.76	3446.31	3467.79	1.05	ppb
Sulfur	34-1	223144.65	223959.74	228521.81	225208.73	1.29	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	0.04	0.04	0.04	0.04	8.91	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	6.53	ppb
Tin	118-1	0.19	0.19	0.20	0.20	4.04	ppb
Titanium	47-1	6.11	5.98	6.18	6.09	1.66	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-04DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-08-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:27:13

DataFile Name :

039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.19	2.21	2.20	2.20	0.32	ppb
Vanadium	51-2	255.16	256.88	253.39	255.14	0.68	ppb
Yttrium	89-1				114		%
Yttrium	89-2				109		%
Zinc	66-2	298.38	295.90	297.34	297.21	0.42	ppb
Zirconium	90-1	0.51	0.53	0.53	0.52	2.76	ppb
Zirconium	91-1	0.54	0.59	0.55	0.56	4.97	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-06DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-09-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:30:23 DataFile Name : 040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16450.85	16157.02	16106.91	16238.26	1.14	ppb
Antimony	121-1	0.05	0.05	0.04	0.05	11.59	ppb
Arsenic	75-2	1.90	1.67	1.77	1.78	6.52	ppb
Barium	135-1	40.93	41.31	40.91	41.05	0.55	ppb
Barium	137-1	42.03	42.50	42.44	42.32	0.60	ppb
Beryllium	9-1	0.47	0.47	0.48	0.47	1.34	ppb
Bismuth	209-1				102		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.18	0.27	0.15	0.20	31.50	ppb
Cadmium	106-1	1.14	1.30	1.72	1.39	21.90	ppb
Cadmium	111-1	0.16	0.15	0.18	0.16	10.83	ppb
Calcium	43-1	103743.82	103797.84	104375.09	103972.25	0.34	ppb
Calcium	44-1	102369.91	103091.88	103835.76	103099.18	0.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.28	4.28	4.20	4.25	1.15	ppb
Cobalt	59-2	56.92	56.80	56.07	56.60	0.81	ppb
Copper	63-2	3.63	3.62	3.67	3.64	0.67	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				94		%
Indium	115-2				90		%
Iron	56-2	222593.02	220707.51	219942.28	221080.93	0.62	ppb
Iron	57-2	220638.49	219116.83	218385.61	219380.31	0.52	ppb
Iron	54-2	221771.23	220844.52	220989.56	221201.77	0.23	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-06DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-09-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:30:23 DataFile Name : 040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.47	0.46	0.46	0.46	1.04	ppb
Lead	207-1	0.41	0.41	0.42	0.42	1.94	ppb
Lead	208-1	0.43	0.43	0.43	0.43	0.33	ppb
Lithium	6-1				99		%
Magnesium	24-2	34371.41	33916.65	33952.33	34080.13	0.74	ppb
Manganese	55-2	3652.96	3621.56	3632.81	3635.78	0.44	ppb
Molybdenum	94-1	0.97	0.91	0.96	0.95	3.24	ppb
Molybdenum	95-1	0.15	0.14	0.14	0.14	3.11	ppb
Molybdenum	96-1	1.44	1.43	1.39	1.42	1.71	ppb
Molybdenum	97-1	0.17	0.13	0.14	0.15	13.86	ppb
Molybdenum	98-1	0.11	0.11	0.09	0.10	9.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	18.33	18.30	18.25	18.29	0.20	ppb
Phosphorus	31-2	134.68	142.43	142.81	139.98	3.28	ppb
Potassium	39-2	663.11	663.46	657.13	661.23	0.54	ppb
Rhodium	103-1				90		%
Rhodium	103-2				89		%
Scandium	45-1				91		%
Scandium	45-2				86		%
Selenium	82-1	0.63	0.22	0.41	0.42	48.85	ppb
Selenium	77-2	13.79	13.71	16.03	14.51	9.08	ppb
Selenium	78-2	1.13	1.79	1.13	1.35	27.96	ppb
Silicon	28-1	9349.72	9576.15	9463.49	9463.12	1.20	ppb
Silver	107-1	0.02	0.02	0.02	0.02	4.71	ppb
Silver	109-1	0.03	0.03	0.03	0.03	7.02	ppb
Sodium	23-2	9564.76	9584.83	9509.36	9552.99	0.41	ppb
Strontium	86-1	5138.82	5229.99	5171.21	5180.01	0.89	ppb
Strontium	88-1	5332.00	5376.98	5403.06	5370.68	0.67	ppb
Sulfur	34-1	230293.72	231176.59	233261.88	231577.40	0.66	ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	0.04	0.03	0.03	0.03	13.28	ppb
Thallium	205-1	0.03	0.04	0.03	0.03	4.15	ppb
Tin	118-1	0.17	0.20	0.17	0.18	9.37	ppb
Titanium	47-1	2.53	2.61	2.67	2.60	2.78	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-06DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-09-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:30:23

DataFile Name :

040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	4.14	4.21	4.17	4.17	0.84	ppb
Vanadium	51-2	292.96	292.71	291.21	292.29	0.32	ppb
Yttrium	89-1				120		%
Yttrium	89-2				117		%
Zinc	66-2	234.69	234.24	232.80	233.91	0.42	ppb
Zirconium	90-1	0.40	0.41	0.39	0.40	1.70	ppb
Zirconium	91-1	0.39	0.41	0.39	0.40	2.67	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-08DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-10-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:33:31

DataFile Name :

041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21416.53	21294.77	21160.09	21290.47	0.60	ppb
Antimony	121-1	0.04	0.03	0.04	0.04	2.43	ppb
Arsenic	75-2	1.13	1.21	1.16	1.17	3.69	ppb
Barium	135-1	35.95	37.10	37.49	36.85	2.18	ppb
Barium	137-1	36.64	37.65	37.99	37.43	1.88	ppb
Beryllium	9-1	0.65	0.63	0.74	0.68	8.45	ppb
Bismuth	209-1				103		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.22	0.32	0.15	0.23	38.42	ppb
Cadmium	106-1	1.05	1.21	1.18	1.15	7.37	ppb
Cadmium	111-1	0.12	0.12	0.14	0.13	9.22	ppb
Calcium	43-1	75378.92	79253.12	78509.81	77713.95	2.65	ppb
Calcium	44-1	75272.05	77522.18	78288.79	77027.68	2.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.61	5.62	5.41	5.55	2.11	ppb
Cobalt	59-2	67.50	67.06	65.45	66.67	1.62	ppb
Copper	63-2	13.42	13.35	13.00	13.26	1.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				103		%
Indium	115-1				97		%
Indium	115-2				93		%
Iron	56-2	207037.66	203329.49	198832.36	203066.51	2.02	ppb
Iron	57-2	202602.12	200057.29	195285.65	199315.02	1.86	ppb
Iron	54-2	205933.47	202749.64	199006.29	202563.13	1.71	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-08DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-10-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:33:31 DataFile Name : 041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.57	0.59	0.59	0.58	2.15	ppb
Lead	207-1	0.51	0.55	0.53	0.53	4.10	ppb
Lead	208-1	0.54	0.55	0.57	0.55	2.35	ppb
Lithium	6-1				99		%
Magnesium	24-2	31091.50	30799.39	29874.77	30588.56	2.08	ppb
Manganese	55-2	3090.63	3064.31	2991.01	3048.65	1.69	ppb
Molybdenum	94-1	1.58	1.61	1.60	1.60	1.11	ppb
Molybdenum	95-1	0.09	0.10	0.09	0.09	8.28	ppb
Molybdenum	96-1	1.40	1.44	1.41	1.42	1.59	ppb
Molybdenum	97-1	0.09	0.09	0.09	0.09	1.36	ppb
Molybdenum	98-1	0.05	0.05	0.06	0.06	8.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	16.59	16.31	15.88	16.26	2.22	ppb
Phosphorus	31-2	469.64	490.81	490.60	483.68	2.51	ppb
Potassium	39-2	729.12	708.08	696.86	711.35	2.30	ppb
Rhodium	103-1				94		%
Rhodium	103-2				93		%
Scandium	45-1				95		%
Scandium	45-2				92		%
Selenium	82-1	0.70	0.78	0.35	0.61	37.07	ppb
Selenium	77-2	13.96	15.12	13.50	14.19	5.87	ppb
Selenium	78-2	0.05	0.89	0.67	0.53	81.18	ppb
Silicon	28-1	11006.82	11600.56	11601.87	11403.08	3.01	ppb
Silver	107-1	0.03	0.03	0.02	0.03	8.38	ppb
Silver	109-1	0.02	0.02	0.02	0.02	7.42	ppb
Sodium	23-2	10721.17	10600.88	10286.91	10536.32	2.13	ppb
Strontium	86-1	3831.09	3940.36	3898.05	3889.83	1.42	ppb
Strontium	88-1	3967.29	4095.35	4018.19	4026.94	1.60	ppb
Sulfur	34-1	209052.52	212422.78	216256.93	212577.41	1.70	ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.03	0.03	0.02	0.03	20.02	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	4.95	ppb
Tin	118-1	0.22	0.23	0.24	0.23	4.09	ppb
Titanium	47-1	3.88	3.96	3.95	3.93	1.16	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-08DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-10-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:33:31

DataFile Name :

041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.18	2.29	2.32	2.26	3.25	ppb
Vanadium	51-2	220.96	216.66	212.36	216.66	1.98	ppb
Yttrium	89-1				123		%
Yttrium	89-2				119		%
Zinc	66-2	248.46	244.83	238.68	243.99	2.03	ppb
Zirconium	90-1	0.79	0.83	0.82	0.81	2.33	ppb
Zirconium	91-1	0.84	0.83	0.86	0.84	1.60	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-10DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-11-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:36:42

DataFile Name :

042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19943.39	19554.93	19535.99	19678.10	1.17	ppb
Antimony	121-1	0.03	0.03	0.04	0.03	7.54	ppb
Arsenic	75-2	1.19	1.37	1.14	1.24	9.47	ppb
Barium	135-1	37.04	37.22	37.03	37.10	0.28	ppb
Barium	137-1	37.63	37.70	37.99	37.77	0.50	ppb
Beryllium	9-1	0.66	0.67	0.62	0.65	3.70	ppb
Bismuth	209-1				103		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.25	0.19	0.07	0.17	51.89	ppb
Cadmium	106-1	2.09	1.16	0.16	1.14	85.25	ppb
Cadmium	111-1	0.22	0.16	0.07	0.15	48.66	ppb
Calcium	43-1	91642.10	92268.36	94501.54	92804.00	1.62	ppb
Calcium	44-1	92197.26	92067.53	93377.95	92547.58	0.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.77	4.69	4.71	4.72	0.88	ppb
Cobalt	59-2	61.77	62.28	62.01	62.02	0.41	ppb
Copper	63-2	10.18	10.14	10.06	10.13	0.63	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				102		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	56-2	199442.42	199109.54	198319.73	198957.23	0.29	ppb
Iron	57-2	198958.67	197696.92	197454.56	198036.72	0.41	ppb
Iron	54-2	197647.46	200106.06	198883.17	198878.90	0.62	ppb
Krypton	83-1						cps

LB Number :	LB134068	Operator :	Jaswal
Lab Sample ID :	P5306-10DLX5	Instrumnet Name :	P7
Client Sample ID :	OU4-VSL-11-121224	Dilution Factor :	5
Date & Time Acquired :	2024-12-23 13:36:42	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.42	0.44	0.45	0.44	3.54	ppb
Lead	207-1	0.42	0.41	0.43	0.42	3.05	ppb
Lead	208-1	0.41	0.42	0.43	0.42	2.14	ppb
Lithium	6-1				99		%
Magnesium	24-2	31195.97	31151.49	31267.62	31205.02	0.19	ppb
Manganese	55-2	3473.13	3524.35	3476.25	3491.24	0.82	ppb
Molybdenum	94-1	1.28	1.30	1.33	1.30	1.90	ppb
Molybdenum	95-1	0.09	0.08	0.09	0.08	9.30	ppb
Molybdenum	96-1	1.30	1.33	1.34	1.33	1.50	ppb
Molybdenum	97-1	0.08	0.09	0.09	0.08	7.14	ppb
Molybdenum	98-1	0.04	0.03	0.04	0.04	3.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	15.64	15.70	15.11	15.48	2.10	ppb
Phosphorus	31-2	379.76	377.14	371.07	375.99	1.19	ppb
Potassium	39-2	701.48	698.63	702.09	700.73	0.26	ppb
Rhodium	103-1				93		%
Rhodium	103-2				91		%
Scandium	45-1				94		%
Scandium	45-2				89		%
Selenium	82-1	0.55	0.44	0.62	0.54	17.56	ppb
Selenium	77-2	12.70	14.76	13.91	13.79	7.48	ppb
Selenium	78-2	0.75	1.52	1.29	1.19	33.13	ppb
Silicon	28-1	10100.80	10126.58	10297.81	10175.06	1.05	ppb
Silver	107-1	0.03	0.02	0.02	0.02	12.65	ppb
Silver	109-1	0.02	0.02	0.02	0.02	13.72	ppb
Sodium	23-2	9442.34	9334.84	9376.62	9384.60	0.58	ppb
Strontium	86-1	4296.39	4307.92	4356.72	4320.35	0.74	ppb
Strontium	88-1	4446.71	4478.94	4485.33	4470.33	0.46	ppb
Sulfur	34-1	217978.55	219476.73	220839.28	219431.52	0.65	ppb
Terbium	159-1				102		%
Terbium	159-2				100		%
Thallium	203-1	0.02	0.03	0.02	0.02	12.78	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	4.07	ppb
Tin	118-1	0.17	0.19	0.18	0.18	5.47	ppb
Titanium	47-1	3.34	3.25	3.34	3.31	1.56	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-10DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-11-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:36:42

DataFile Name :

042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.39	2.42	2.46	2.42	1.40	ppb
Vanadium	51-2	217.72	217.93	217.33	217.66	0.14	ppb
Yttrium	89-1				123		%
Yttrium	89-2				116		%
Zinc	66-2	231.93	233.00	230.87	231.94	0.46	ppb
Zirconium	90-1	0.64	0.63	0.64	0.64	0.97	ppb
Zirconium	91-1	0.64	0.63	0.67	0.65	2.96	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-12DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-12-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:39:49 DataFile Name : 043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	33149.76	33315.41	33424.27	33296.48	0.42	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	5.31	ppb
Arsenic	75-2	1.52	1.73	1.53	1.59	7.54	ppb
Barium	135-1	32.15	32.79	32.85	32.60	1.18	ppb
Barium	137-1	32.98	33.26	33.56	33.27	0.88	ppb
Beryllium	9-1	0.16	0.16	0.19	0.17	11.87	ppb
Bismuth	209-1				103		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.10	0.19	0.27	0.18	44.65	ppb
Cadmium	106-1	0.67	0.99	0.14	0.60	71.41	ppb
Cadmium	111-1	0.14	0.15	0.07	0.12	33.65	ppb
Calcium	43-1	46705.09	48033.90	47080.00	47273.00	1.45	ppb
Calcium	44-1	45936.82	47791.84	47651.25	47126.63	2.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	16.24	16.06	16.17	16.16	0.57	ppb
Cobalt	59-2	55.50	55.67	55.56	55.58	0.15	ppb
Copper	63-2	31.34	31.39	31.30	31.34	0.15	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				103		%
Indium	115-1				98		%
Indium	115-2				93		%
Iron	56-2	152645.70	151617.41	152207.30	152156.80	0.34	ppb
Iron	57-2	151417.07	148999.56	151420.64	150612.42	0.93	ppb
Iron	54-2	152102.18	151487.03	152214.20	151934.47	0.26	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-12DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-12-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:39:49 DataFile Name : 043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.41	1.41	1.40	1.41	0.36	ppb
Lead	207-1	1.31	1.29	1.31	1.30	0.97	ppb
Lead	208-1	1.34	1.35	1.36	1.35	0.52	ppb
Lithium	6-1				99		%
Magnesium	24-2	44661.35	44709.52	44440.36	44603.74	0.32	ppb
Manganese	55-2	1212.08	1200.70	1208.55	1207.11	0.48	ppb
Molybdenum	94-1	0.88	0.91	0.97	0.92	4.91	ppb
Molybdenum	95-1	0.07	0.06	0.08	0.07	15.86	ppb
Molybdenum	96-1	1.07	1.14	1.12	1.11	3.23	ppb
Molybdenum	97-1	0.10	0.10	0.09	0.10	7.65	ppb
Molybdenum	98-1	0.06	0.06	0.06	0.06	2.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	72.18	71.57	72.47	72.07	0.64	ppb
Phosphorus	31-2	1164.80	1188.36	1193.25	1182.14	1.29	ppb
Potassium	39-2	901.30	902.46	894.29	899.35	0.49	ppb
Rhodium	103-1				95		%
Rhodium	103-2				92		%
Scandium	45-1				97		%
Scandium	45-2				92		%
Selenium	82-1	0.98	0.52	0.45	0.65	44.10	ppb
Selenium	77-2	13.33	14.13	11.67	13.04	9.64	ppb
Selenium	78-2	1.64	1.96	1.11	1.57	27.27	ppb
Silicon	28-1	8555.19	8810.15	8933.19	8766.18	2.20	ppb
Silver	107-1	0.04	0.04	0.04	0.04	9.12	ppb
Silver	109-1	0.03	0.04	0.04	0.04	17.21	ppb
Sodium	23-2	23296.63	23243.30	23292.86	23277.60	0.13	ppb
Strontium	86-1	2909.46	3043.07	3047.78	3000.10	2.62	ppb
Strontium	88-1	3058.82	3118.86	3094.82	3090.83	0.98	ppb
Sulfur	34-1	213474.15	220269.68	222484.38	218742.73	2.15	ppb
Terbium	159-1				103		%
Terbium	159-2				100		%
Thallium	203-1	0.02	0.03	0.03	0.03	5.65	ppb
Thallium	205-1	0.02	0.03	0.02	0.02	13.22	ppb
Tin	118-1	0.12	0.13	0.14	0.13	4.72	ppb
Titanium	47-1	3.99	3.95	4.21	4.05	3.46	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-12DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-12-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:39:49

DataFile Name :

043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.08	2.12	2.15	2.12	1.74	ppb
Vanadium	51-2	279.63	278.20	277.44	278.42	0.40	ppb
Yttrium	89-1				117		%
Yttrium	89-2				111		%
Zinc	66-2	297.75	298.50	300.13	298.80	0.41	ppb
Zirconium	90-1	0.42	0.44	0.45	0.44	3.12	ppb
Zirconium	91-1	0.42	0.49	0.44	0.45	7.82	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-14DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-13-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:43:00 DataFile Name : 044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	25015.33	24952.41	25238.78	25068.84	0.60	ppb
Antimony	121-1	0.02	0.03	0.02	0.03	5.88	ppb
Arsenic	75-2	1.78	1.72	1.92	1.81	5.62	ppb
Barium	135-1	35.42	35.55	35.37	35.45	0.27	ppb
Barium	137-1	35.93	36.27	35.86	36.02	0.60	ppb
Beryllium	9-1	0.21	0.26	0.23	0.23	11.34	ppb
Bismuth	209-1				103		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.16	0.07	0.23	0.16	52.10	ppb
Cadmium	106-1	0.74	1.23	0.44	0.80	49.80	ppb
Cadmium	111-1	0.13	0.15	0.10	0.12	21.88	ppb
Calcium	43-1	57403.87	58680.01	60849.69	58977.85	2.95	ppb
Calcium	44-1	58406.80	57850.28	58345.42	58200.83	0.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	14.82	14.58	14.66	14.69	0.85	ppb
Cobalt	59-2	59.08	58.77	58.20	58.68	0.76	ppb
Copper	63-2	27.88	27.68	27.90	27.82	0.42	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				102		%
Indium	115-1				98		%
Indium	115-2				94		%
Iron	56-2	172806.33	173775.23	173776.33	173452.63	0.32	ppb
Iron	57-2	172894.01	170748.04	171514.10	171718.72	0.63	ppb
Iron	54-2	175392.69	174443.76	174502.73	174779.73	0.30	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-14DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-13-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:43:00 DataFile Name : 044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.06	1.03	1.04	1.04	1.10	ppb
Lead	207-1	0.97	0.98	0.97	0.97	0.57	ppb
Lead	208-1	1.01	0.99	1.02	1.01	1.30	ppb
Lithium	6-1				98		%
Magnesium	24-2	43503.63	43625.02	43862.44	43663.70	0.42	ppb
Manganese	55-2	1669.06	1651.99	1663.10	1661.39	0.52	ppb
Molybdenum	94-1	1.02	1.04	1.09	1.05	3.30	ppb
Molybdenum	95-1	0.10	0.09	0.08	0.09	9.48	ppb
Molybdenum	96-1	1.22	1.29	1.28	1.27	3.21	ppb
Molybdenum	97-1	0.11	0.10	0.12	0.11	9.50	ppb
Molybdenum	98-1	0.07	0.07	0.07	0.07	1.44	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	63.84	64.18	63.62	63.88	0.44	ppb
Phosphorus	31-2	1062.81	1056.83	1050.00	1056.55	0.61	ppb
Potassium	39-2	929.41	922.67	920.25	924.11	0.51	ppb
Rhodium	103-1				95		%
Rhodium	103-2				93		%
Scandium	45-1				96		%
Scandium	45-2				91		%
Selenium	82-1	0.44	0.22	0.40	0.35	32.70	ppb
Selenium	77-2	14.57	12.17	13.18	13.31	9.06	ppb
Selenium	78-2	1.75	1.74	1.41	1.63	11.79	ppb
Silicon	28-1	9386.20	9507.33	9542.57	9478.70	0.87	ppb
Silver	107-1	0.03	0.04	0.03	0.03	18.01	ppb
Silver	109-1	0.03	0.04	0.03	0.03	14.96	ppb
Sodium	23-2	26858.81	26611.12	26609.08	26693.00	0.54	ppb
Strontium	86-1	3558.24	3591.31	3621.02	3590.19	0.87	ppb
Strontium	88-1	3691.70	3690.44	3718.20	3700.11	0.42	ppb
Sulfur	34-1	218781.99	217439.42	217838.94	218020.12	0.32	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	0.02	0.03	0.02	0.02	20.75	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	7.93	ppb
Tin	118-1	0.48	0.49	0.48	0.48	0.55	ppb
Titanium	47-1	5.22	5.21	5.56	5.33	3.74	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-14DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-13-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:43:00

DataFile Name :

044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.11	2.14	2.13	2.12	0.78	ppb
Vanadium	51-2	270.00	270.64	270.25	270.30	0.12	ppb
Yttrium	89-1				118		%
Yttrium	89-2				112		%
Zinc	66-2	291.90	286.19	287.93	288.68	1.01	ppb
Zirconium	90-1	0.48	0.49	0.48	0.49	0.84	ppb
Zirconium	91-1	0.49	0.45	0.49	0.48	4.88	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-16DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-14-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:46:07 DataFile Name : 045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	32836.29	32636.49	32275.02	32582.60	0.87	ppb
Antimony	121-1	0.49	0.49	0.50	0.49	1.74	ppb
Arsenic	75-2	1.48	1.57	1.45	1.50	3.99	ppb
Barium	135-1	34.53	35.23	35.75	35.17	1.74	ppb
Barium	137-1	35.44	35.64	36.09	35.72	0.93	ppb
Beryllium	9-1	0.21	0.20	0.24	0.22	8.25	ppb
Bismuth	209-1				103		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.23	0.17	0.33	0.24	31.22	ppb
Cadmium	106-1	1.52	1.11	0.54	1.06	46.32	ppb
Cadmium	111-1	0.20	0.18	0.14	0.17	17.07	ppb
Calcium	43-1	45352.00	45689.24	45579.15	45540.13	0.38	ppb
Calcium	44-1	45536.34	45413.69	45427.93	45459.32	0.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	16.39	16.38	16.24	16.34	0.50	ppb
Cobalt	59-2	54.69	54.94	54.92	54.85	0.25	ppb
Copper	63-2	30.87	30.87	30.71	30.82	0.30	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				102		%
Indium	115-1				98		%
Indium	115-2				94		%
Iron	56-2	136788.05	137743.63	137029.87	137187.18	0.36	ppb
Iron	57-2	135604.87	135860.75	135298.79	135588.14	0.21	ppb
Iron	54-2	136014.08	137879.15	137900.78	137264.67	0.79	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-16DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-14-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:46:07 DataFile Name : 045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.08	2.10	2.13	2.10	1.26	ppb
Lead	207-1	1.91	1.98	1.92	1.93	1.98	ppb
Lead	208-1	1.99	2.05	2.03	2.02	1.46	ppb
Lithium	6-1				99		%
Magnesium	24-2	45156.82	45061.52	44770.21	44996.18	0.45	ppb
Manganese	55-2	1311.30	1329.90	1318.15	1319.78	0.71	ppb
Molybdenum	94-1	0.76	0.74	0.79	0.76	3.22	ppb
Molybdenum	95-1	0.09	0.09	0.08	0.09	7.62	ppb
Molybdenum	96-1	1.03	1.07	1.03	1.04	2.26	ppb
Molybdenum	97-1	0.10	0.11	0.11	0.11	7.29	ppb
Molybdenum	98-1	0.07	0.09	0.07	0.08	10.72	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	66.86	66.69	67.42	66.99	0.57	ppb
Phosphorus	31-2	837.74	785.48	809.14	810.79	3.23	ppb
Potassium	39-2	866.18	868.04	866.48	866.90	0.12	ppb
Rhodium	103-1				96		%
Rhodium	103-2				93		%
Scandium	45-1				97		%
Scandium	45-2				93		%
Selenium	82-1	0.26	0.02	0.39	0.23	83.62	ppb
Selenium	77-2	14.17	12.86	13.11	13.38	5.18	ppb
Selenium	78-2	1.29	0.79	1.76	1.28	38.14	ppb
Silicon	28-1	8410.30	8428.20	8492.43	8443.64	0.51	ppb
Silver	107-1	0.04	0.04	0.04	0.04	2.21	ppb
Silver	109-1	0.04	0.04	0.04	0.04	4.31	ppb
Sodium	23-2	21678.36	21734.47	21519.00	21643.94	0.52	ppb
Strontium	86-1	2628.27	2651.71	2648.63	2642.87	0.48	ppb
Strontium	88-1	2724.15	2725.32	2739.74	2729.74	0.32	ppb
Sulfur	34-1	225830.35	222094.50	224557.79	224160.88	0.85	ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	0.03	0.02	0.03	0.03	20.02	ppb
Thallium	205-1	0.03	0.02	0.03	0.03	6.39	ppb
Tin	118-1	0.48	0.49	0.50	0.49	2.65	ppb
Titanium	47-1	5.30	5.01	5.27	5.19	3.09	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-16DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-14-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:46:07

DataFile Name :

045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.97	2.06	2.07	2.03	2.68	ppb
Vanadium	51-2	267.84	268.73	269.11	268.56	0.24	ppb
Yttrium	89-1				117		%
Yttrium	89-2				112		%
Zinc	66-2	291.07	293.49	290.58	291.71	0.54	ppb
Zirconium	90-1	0.34	0.36	0.33	0.34	3.74	ppb
Zirconium	91-1	0.32	0.35	0.35	0.34	5.16	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5306-18DLX5Instrumnet Name :P7

Client Sample ID :OU4-VSL-06R-121224Dilution Factor :5

Date & Time Acquired :2024-12-23 13:49:18DataFile Name :046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20275.73	19972.40	19833.34	20027.16	1.13	ppb
Antimony	121-1	2.21	2.26	2.28	2.25	1.57	ppb
Arsenic	75-2	1.48	1.52	1.56	1.52	2.71	ppb
Barium	135-1	39.20	39.93	40.34	39.82	1.45	ppb
Barium	137-1	39.76	40.67	40.62	40.35	1.26	ppb
Beryllium	9-1	0.49	0.52	0.44	0.48	9.32	ppb
Bismuth	209-1				104		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.13	0.22	0.31	0.22	41.10	ppb
Cadmium	106-1	1.64	1.34	1.22	1.40	15.35	ppb
Cadmium	111-1	0.17	0.15	0.17	0.16	7.78	ppb
Calcium	43-1	87692.53	87411.98	88360.49	87821.67	0.55	ppb
Calcium	44-1	87103.53	87221.65	87340.56	87221.91	0.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.51	8.50	8.38	8.47	0.90	ppb
Cobalt	59-2	63.07	62.09	61.92	62.36	1.00	ppb
Copper	63-2	16.99	16.74	16.58	16.77	1.23	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				101		%
Indium	115-1				97		%
Indium	115-2				93		%
Iron	56-2	199116.84	198609.51	198581.95	198769.43	0.15	ppb
Iron	57-2	201700.29	197770.10	195865.34	198445.25	1.50	ppb
Iron	54-2	204138.13	200068.12	197156.36	200454.20	1.75	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-18DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-06R-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:49:18 DataFile Name : 046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.60	0.58	0.62	0.60	3.42	ppb
Lead	207-1	0.57	0.54	0.54	0.55	3.18	ppb
Lead	208-1	0.57	0.57	0.58	0.57	1.13	ppb
Lithium	6-1				99		%
Magnesium	24-2	37630.96	36992.86	36892.30	37172.04	1.08	ppb
Manganese	55-2	3037.18	2999.10	2983.86	3006.71	0.91	ppb
Molybdenum	94-1	1.05	1.03	1.04	1.04	0.80	ppb
Molybdenum	95-1	0.11	0.11	0.11	0.11	2.29	ppb
Molybdenum	96-1	1.38	1.30	1.34	1.34	2.81	ppb
Molybdenum	97-1	0.09	0.12	0.12	0.11	12.62	ppb
Molybdenum	98-1	0.06	0.06	0.07	0.06	8.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	35.98	35.63	35.03	35.55	1.35	ppb
Phosphorus	31-2	352.40	360.38	357.53	356.77	1.13	ppb
Potassium	39-2	869.66	853.16	845.20	856.01	1.46	ppb
Rhodium	103-1				95		%
Rhodium	103-2				91		%
Scandium	45-1				96		%
Scandium	45-2				90		%
Selenium	82-1	0.40	0.77	0.53	0.57	33.27	ppb
Selenium	77-2	13.04	16.30	16.38	15.24	12.50	ppb
Selenium	78-2	1.66	0.76	0.84	1.09	46.20	ppb
Silicon	28-1	9981.44	10256.46	10134.64	10124.18	1.36	ppb
Silver	107-1	0.04	0.03	0.03	0.03	7.66	ppb
Silver	109-1	0.03	0.04	0.04	0.03	16.53	ppb
Sodium	23-2	19729.66	19260.39	19058.04	19349.36	1.78	ppb
Strontium	86-1	4436.87	4449.59	4443.40	4443.29	0.14	ppb
Strontium	88-1	4585.65	4631.36	4610.82	4609.28	0.50	ppb
Sulfur	34-1	230648.24	226556.59	227439.80	228214.88	0.94	ppb
Terbium	159-1				103		%
Terbium	159-2				100		%
Thallium	203-1	0.03	0.02	0.02	0.02	16.84	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	9.34	ppb
Tin	118-1	0.14	0.17	0.17	0.16	10.23	ppb
Titanium	47-1	2.97	3.14	3.09	3.07	2.78	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-18DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-06R-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:49:18

DataFile Name :

046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.57	2.59	2.54	2.56	1.04	ppb
Vanadium	51-2	253.25	249.58	250.37	251.07	0.77	ppb
Yttrium	89-1				124		%
Yttrium	89-2				117		%
Zinc	66-2	266.80	261.37	258.96	262.37	1.53	ppb
Zirconium	90-1	0.48	0.49	0.48	0.48	1.28	ppb
Zirconium	91-1	0.49	0.48	0.45	0.47	4.69	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

PB165699TB

Instrumnet Name :

P7

Client Sample ID :

PB165699TB

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 13:52:26

DataFile Name :

047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.12	3.32	3.21	3.21	3.12	ppb
Antimony	121-1	1.75	1.74	1.78	1.76	1.39	ppb
Arsenic	75-2	0.01	0.01	0.00	0.01	56.69	ppb
Barium	135-1	0.01	0.03	0.01	0.02	42.16	ppb
Barium	137-1	0.02	0.03	0.02	0.02	25.47	ppb
Beryllium	9-1	0.03	0.00	0.03	0.02	84.85	ppb
Bismuth	209-1				107		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.02	0.06	-0.03	0.00	1305.80	ppb
Cadmium	106-1	-1.40	-1.53	-1.64	-1.52		ppb
Cadmium	111-1	-0.09	-0.11	-0.11	-0.10		ppb
Calcium	43-1	23.89	18.47	11.44	17.93	34.79	ppb
Calcium	44-1	20.00	12.28	9.29	13.85	39.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.19	0.19	0.18	0.19	4.19	ppb
Cobalt	59-2	0.02	0.02	0.01	0.01	22.23	ppb
Copper	63-2	0.06	0.06	0.05	0.06	4.75	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				103		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	56-2	12.97	12.13	10.73	11.94	9.45	ppb
Iron	57-2	13.98	14.42	12.11	13.50	9.11	ppb
Iron	54-2	15.59	13.18	11.44	13.41	15.55	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165699TB Instrumnet Name : P7
Client Sample ID : PB165699TB Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:52:26 DataFile Name : 047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.13	0.14	0.13	0.13	1.12	ppb
Lead	207-1	0.15	0.15	0.14	0.15	5.13	ppb
Lead	208-1	0.14	0.14	0.14	0.14	2.10	ppb
Lithium	6-1				99		%
Magnesium	24-2	2.56	2.52	2.20	2.43	8.11	ppb
Manganese	55-2	1.78	1.74	1.74	1.75	1.19	ppb
Molybdenum	94-1	0.02	0.02	0.00	0.01	71.12	ppb
Molybdenum	95-1	0.01	0.01	0.00	0.01	69.74	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	68.55	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	24.33	ppb
Molybdenum	98-1	0.01	0.00	0.01	0.01	85.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.10	0.14	0.07	0.10	35.56	ppb
Phosphorus	31-2	-14.91	-18.54	-13.78	-15.74		ppb
Potassium	39-2	4.71	3.38	3.61	3.90	18.18	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				97		%
Scandium	45-2				94		%
Selenium	82-1	-0.29	-0.27	-0.44	-0.33		ppb
Selenium	77-2	0.01	-0.16	-0.16	-0.10		ppb
Selenium	78-2	-0.22	0.22	-1.17	-0.39		ppb
Silicon	28-1	-3.10	-2.88	-3.74	-3.24		ppb
Silver	107-1	0.00	0.00	0.00	0.00	16.75	ppb
Silver	109-1	0.00	0.00	0.00	0.00	27.40	ppb
Sodium	23-2	130.87	130.48	128.55	129.97	0.96	ppb
Strontium	86-1	0.74	0.28	0.16	0.40	77.00	ppb
Strontium	88-1	1.18	0.89	0.69	0.92	26.95	ppb
Sulfur	34-1	3236.74	3231.34	3225.40	3231.16	0.18	ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.00	0.01	0.00	0.00	71.11	ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	0.09	0.11	0.13	0.11	17.44	ppb
Titanium	47-1	0.06	0.08	0.07	0.07	18.55	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

PB165699TB

Instrumnet Name :

P7

Client Sample ID :

PB165699TB

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 13:52:26

DataFile Name :

047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	66.91	ppb
Vanadium	51-2	0.01	0.02	0.02	0.02	21.85	ppb
Yttrium	89-1				100		%
Yttrium	89-2				98		%
Zinc	66-2	0.69	0.70	0.81	0.73	9.63	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	234.14	ppb
Zirconium	91-1	0.01	0.00	0.00	0.00	170.50	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCV043Instrumnet Name :P7

Client Sample ID :CCV043Dilution Factor :1

Date & Time Acquired :2024-12-23 13:55:45DataFile Name :048CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51828.04	51522.72	51312.50	51554.42	0.50	ppb
Antimony	121-1	510.17	506.56	498.45	505.06	1.19	ppb
Arsenic	75-2	504.19	504.31	502.60	503.70	0.19	ppb
Barium	135-1	2580.57	2581.66	2564.96	2575.73	0.36	ppb
Barium	137-1	2582.50	2626.54	2556.79	2588.61	1.36	ppb
Beryllium	9-1	491.15	502.42	492.00	495.19	1.27	ppb
Bismuth	209-1				100		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	499.83	496.09	502.40	499.44	0.63	ppb
Cadmium	106-1	501.76	501.70	498.57	500.68	0.36	ppb
Cadmium	111-1	478.86	477.82	476.09	477.59	0.29	ppb
Calcium	43-1	260243.52	260798.51	261145.64	260729.22	0.17	ppb
Calcium	44-1	262662.84	260600.52	261585.85	261616.40	0.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	512.82	511.62	516.91	513.78	0.54	ppb
Cobalt	59-2	501.18	498.33	502.05	500.52	0.39	ppb
Copper	63-2	4837.28	4868.26	4846.04	4850.53	0.33	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				99		%
Indium	115-1				92		%
Indium	115-2				87		%
Iron	56-2	129652.87	131552.36	130575.40	130593.54	0.73	ppb
Iron	57-2	128938.91	130464.53	130005.08	129802.84	0.60	ppb
Iron	54-2	130570.45	131117.23	131159.56	130949.08	0.25	ppb
Krypton	83-1						cps

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCV043Instrumnet Name :P7

Client Sample ID :CCV043Dilution Factor :1

Date & Time Acquired :2024-12-23 13:55:45DataFile Name :048CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2592.04	2587.00	2554.58	2577.87	0.79	ppb
Lead	207-1	2586.18	2560.94	2539.35	2562.16	0.91	ppb
Lead	208-1	2577.74	2571.26	2548.97	2565.99	0.59	ppb
Lithium	6-1				100		%
Magnesium	24-2	241643.53	241298.42	241592.76	241511.57	0.08	ppb
Manganese	55-2	5071.41	5103.74	5075.77	5083.64	0.35	ppb
Molybdenum	94-1	5071.03	5131.79	5057.28	5086.70	0.78	ppb
Molybdenum	95-1	5123.06	5090.46	5065.98	5093.17	0.56	ppb
Molybdenum	96-1	5111.06	5160.43	5133.81	5135.10	0.48	ppb
Molybdenum	97-1	5077.91	5129.83	5076.82	5094.86	0.59	ppb
Molybdenum	98-1	5051.42	5137.22	5065.36	5084.67	0.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	470.06	472.57	474.28	472.30	0.45	ppb
Phosphorus	31-2	10094.41	10184.23	10156.41	10145.02	0.45	ppb
Potassium	39-2	127234.98	128048.02	127593.04	127625.35	0.32	ppb
Rhodium	103-1				88		%
Rhodium	103-2				84		%
Scandium	45-1				92		%
Scandium	45-2				87		%
Selenium	82-1	478.39	491.14	483.79	484.44	1.32	ppb
Selenium	77-2	476.60	479.79	489.73	482.04	1.42	ppb
Selenium	78-2	493.02	492.02	492.06	492.37	0.12	ppb
Silicon	28-1	207.56	204.93	209.44	207.31	1.09	ppb
Silver	107-1	502.93	494.15	497.47	498.18	0.89	ppb
Silver	109-1	503.14	497.29	501.52	500.65	0.60	ppb
Sodium	23-2	248742.49	251630.23	253823.38	251398.70	1.01	ppb
Strontium	86-1	12699.74	12834.07	12779.62	12771.14	0.53	ppb
Strontium	88-1	12682.74	12727.00	12615.24	12674.99	0.44	ppb
Sulfur	34-1	9901.28	9691.00	9793.12	9795.13	1.07	ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	524.24	510.84	509.26	514.78	1.60	ppb
Thallium	205-1	521.36	517.59	510.85	516.60	1.03	ppb
Tin	118-1	505.90	511.07	506.69	507.89	0.55	ppb
Titanium	47-1	5018.72	5050.82	5013.95	5027.83	0.40	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCV043

Instrumnet Name :

P7

Client Sample ID :

CCV043

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 13:55:45

DataFile Name :

048CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	509.33	505.30	508.96	507.87	0.44	ppb
Vanadium	51-2	514.07	519.16	528.01	520.42	1.36	ppb
Yttrium	89-1				95		%
Yttrium	89-2				89		%
Zinc	66-2	4810.45	4805.28	4793.59	4803.11	0.18	ppb
Zirconium	90-1	505.55	507.00	498.94	503.83	0.85	ppb
Zirconium	91-1	506.49	508.82	507.35	507.55	0.23	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB043 Instrumnet Name : P7
Client Sample ID : CCB043 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:58:28 DataFile Name : 049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.95	0.85	1.23	1.01	19.29	ppb
Antimony	121-1	0.25	0.22	0.18	0.22	15.80	ppb
Arsenic	75-2	0.00	0.02	0.00	0.01	190.00	ppb
Barium	135-1	0.25	0.12	0.09	0.15	55.83	ppb
Barium	137-1	0.23	0.11	0.07	0.14	62.35	ppb
Beryllium	9-1	0.09	0.08	0.09	0.09	9.99	ppb
Bismuth	209-1				107		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.08	0.06	0.03	0.06	48.04	ppb
Cadmium	106-1	-1.54	-1.58	-2.27	-1.80		ppb
Cadmium	111-1	-0.05	-0.08	-0.14	-0.09		ppb
Calcium	43-1	25.24	14.91	10.27	16.80	45.60	ppb
Calcium	44-1	22.55	10.07	5.17	12.60	71.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.01	-0.01	0.00	643.16	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	17.21	ppb
Copper	63-2	0.15	0.15	0.12	0.14	12.18	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				96		%
Indium	115-2				95		%
Iron	56-2	3.78	3.68	3.50	3.65	3.82	ppb
Iron	57-2	4.46	3.45	4.38	4.10	13.64	ppb
Iron	54-2	4.36	4.17	3.87	4.14	6.01	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB043 Instrumnet Name : P7
Client Sample ID : CCB043 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:58:28 DataFile Name : 049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.22	0.15	0.10	0.16	38.19	ppb
Lead	207-1	0.26	0.14	0.12	0.17	44.83	ppb
Lead	208-1	0.24	0.15	0.11	0.17	41.17	ppb
Lithium	6-1				104		%
Magnesium	24-2	6.07	5.84	5.37	5.76	6.19	ppb
Manganese	55-2	0.15	0.15	0.15	0.15	0.83	ppb
Molybdenum	94-1	0.59	0.39	0.26	0.41	39.72	ppb
Molybdenum	95-1	0.59	0.35	0.24	0.39	44.96	ppb
Molybdenum	96-1	0.57	0.34	0.24	0.38	44.54	ppb
Molybdenum	97-1	0.55	0.34	0.24	0.38	41.87	ppb
Molybdenum	98-1	0.55	0.34	0.25	0.38	39.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.03	-0.02	-0.02	0.00		ppb
Phosphorus	31-2	-12.64	-12.84	-13.61	-13.03		ppb
Potassium	39-2	10.75	10.73	8.97	10.15	10.05	ppb
Rhodium	103-1				95		%
Rhodium	103-2				95		%
Scandium	45-1				91		%
Scandium	45-2				89		%
Selenium	82-1	-0.19	-0.48	-0.58	-0.42		ppb
Selenium	77-2	-0.16	-0.16	-0.16	-0.16		ppb
Selenium	78-2	-1.05	-0.59	-1.79	-1.14		ppb
Silicon	28-1	-8.12	-11.52	-12.79	-10.81		ppb
Silver	107-1	0.09	0.06	0.05	0.07	27.55	ppb
Silver	109-1	0.08	0.05	0.05	0.06	31.25	ppb
Sodium	23-2	18.00	17.51	18.08	17.86	1.71	ppb
Strontium	86-1	0.97	0.65	0.47	0.70	36.40	ppb
Strontium	88-1	1.17	0.57	0.45	0.73	52.76	ppb
Sulfur	34-1	-63.27	-246.23	-346.73	-218.74		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.06	0.05	0.03	0.04	26.42	ppb
Thallium	205-1	0.07	0.04	0.03	0.05	40.78	ppb
Tin	118-1	0.09	0.07	0.05	0.07	31.40	ppb
Titanium	47-1	0.54	0.28	0.23	0.35	47.98	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCB043

Instrumnet Name :

P7

Client Sample ID :

CCB043

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 13:58:28

DataFile Name :

049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.04	0.02	0.02	0.03	41.07	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	8.39	ppb
Yttrium	89-1				95		%
Yttrium	89-2				92		%
Zinc	66-2	0.15	0.19	0.18	0.17	10.94	ppb
Zirconium	90-1	0.06	0.04	0.03	0.04	29.25	ppb
Zirconium	91-1	0.06	0.04	0.02	0.04	40.34	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5184-20AInstrumnet Name :P7

Client Sample ID :MYCZF8AREDilution Factor :1

Date & Time Acquired :2024-12-23 14:01:46DataFile Name :050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	74050.66	74058.88	74795.53	74301.69	0.58	ppb
Antimony	121-1	0.61	0.63	0.62	0.62	1.73	ppb
Arsenic	75-2	245.92	245.81	245.36	245.70	0.12	ppb
Barium	135-1	165.99	167.46	168.95	167.47	0.89	ppb
Barium	137-1	169.30	170.57	170.43	170.10	0.41	ppb
Beryllium	9-1	0.90	0.85	0.97	0.91	6.91	ppb
Bismuth	209-1				112		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	6.17	6.70	6.97	6.62	6.15	ppb
Cadmium	106-1	6.40	6.31	6.04	6.25	2.99	ppb
Cadmium	111-1	6.46	6.53	6.33	6.44	1.56	ppb
Calcium	43-1	9479.80	9706.06	9579.23	9588.37	1.18	ppb
Calcium	44-1	9103.03	9161.26	9074.28	9112.86	0.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	328.49	323.27	330.02	327.26	1.08	ppb
Cobalt	59-2	95.62	95.39	95.69	95.57	0.16	ppb
Copper	63-2	2480.23	2469.80	2476.87	2475.63	0.21	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				107		%
Indium	115-1				103		%
Indium	115-2				97		%
Iron	56-2	158882.62	156231.07	157144.69	157419.46	0.86	ppb
Iron	57-2	155507.22	155635.51	155038.01	155393.58	0.20	ppb
Iron	54-2	157701.33	157360.16	158011.38	157690.96	0.21	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5184-20A Instrumnet Name : P7
Client Sample ID : MYCZF8ARE Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:01:46 DataFile Name : 050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	486.26	489.64	496.62	490.84	1.08	ppb
Lead	207-1	496.25	503.35	502.39	500.66	0.77	ppb
Lead	208-1	488.47	493.55	495.88	492.63	0.77	ppb
Lithium	6-1				110		%
Magnesium	24-2	50948.78	50886.26	51422.12	51085.72	0.57	ppb
Manganese	55-2	2851.92	2836.02	2826.05	2838.00	0.46	ppb
Molybdenum	94-1	7.66	7.89	7.88	7.81	1.64	ppb
Molybdenum	95-1	0.54	0.56	0.57	0.55	2.84	ppb
Molybdenum	96-1	2.46	2.45	2.52	2.48	1.54	ppb
Molybdenum	97-1	0.55	0.59	0.59	0.58	4.03	ppb
Molybdenum	98-1	0.51	0.53	0.52	0.52	1.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	180.65	181.64	181.79	181.36	0.34	ppb
Phosphorus	31-2	750.46	759.73	769.30	759.83	1.24	ppb
Potassium	39-2	1746.73	1772.75	1765.45	1761.64	0.76	ppb
Rhodium	103-1				100		%
Rhodium	103-2				97		%
Scandium	45-1				118		%
Scandium	45-2				112		%
Selenium	82-1	1.90	2.33	1.92	2.05	12.01	ppb
Selenium	77-2	8.17	11.94	10.06	10.05	18.73	ppb
Selenium	78-2	2.72	2.62	1.91	2.42	18.30	ppb
Silicon	28-1	2852.20	2918.07	2850.92	2873.73	1.34	ppb
Silver	107-1	3.38	3.38	3.40	3.39	0.39	ppb
Silver	109-1	3.30	3.33	3.38	3.34	1.25	ppb
Sodium	23-2	73.49	73.86	73.03	73.46	0.57	ppb
Strontium	86-1	1023.49	1053.51	1050.44	1042.48	1.58	ppb
Strontium	88-1	1062.99	1089.26	1092.72	1081.66	1.50	ppb
Sulfur	34-1	-1006.12	-1029.62	-1052.95	-1029.56		ppb
Terbium	159-1				108		%
Terbium	159-2				106		%
Thallium	203-1	0.19	0.18	0.18	0.18	1.68	ppb
Thallium	205-1	0.18	0.18	0.18	0.18	1.93	ppb
Tin	118-1	0.17	0.21	0.17	0.18	10.33	ppb
Titanium	47-1	1098.63	1137.06	1126.93	1120.87	1.78	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5184-20A

Instrumnet Name :

P7

Client Sample ID :

MYCZF8ARE

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:01:46

DataFile Name :

050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.54	0.53	0.53	0.53	1.01	ppb
Vanadium	51-2	423.31	419.80	421.83	421.65	0.42	ppb
Yttrium	89-1				111		%
Yttrium	89-2				105		%
Zinc	66-2	490.69	489.45	491.22	490.45	0.19	ppb
Zirconium	90-1	3.96	4.07	4.03	4.02	1.39	ppb
Zirconium	91-1	3.95	4.05	4.18	4.06	2.85	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5191-13A Instrumnet Name : P7
Client Sample ID : MYD033ARE Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:04:49 DataFile Name : 051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	28263.60	28240.92	28142.33	28215.61	0.23	ppb
Antimony	121-1	0.11	0.11	0.12	0.11	4.02	ppb
Arsenic	75-2	35.08	34.25	34.87	34.73	1.24	ppb
Barium	135-1	190.56	193.99	190.53	191.70	1.04	ppb
Barium	137-1	191.70	196.77	192.86	193.78	1.37	ppb
Beryllium	9-1	0.67	0.75	0.67	0.70	6.72	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.75	0.89	0.62	0.75	17.64	ppb
Cadmium	106-1	-0.04	0.42	-0.28	0.04	1001.13	ppb
Cadmium	111-1	0.13	0.16	0.16	0.15	10.07	ppb
Calcium	43-1	14825.53	15154.86	14969.68	14983.36	1.10	ppb
Calcium	44-1	14142.12	14542.40	14437.52	14374.01	1.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	89.02	89.86	89.24	89.37	0.48	ppb
Cobalt	59-2	32.02	32.12	32.15	32.10	0.21	ppb
Copper	63-2	93.36	93.73	93.24	93.44	0.27	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				104		%
Indium	115-1				101		%
Indium	115-2				98		%
Iron	56-2	65612.78	66073.40	66130.81	65939.00	0.43	ppb
Iron	57-2	65073.92	65281.01	65032.23	65129.05	0.20	ppb
Iron	54-2	66285.88	65886.30	66039.21	66070.46	0.31	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5191-13A Instrumnet Name : P7
Client Sample ID : MYD033ARE Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:04:49 DataFile Name : 051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	19.01	19.42	19.56	19.33	1.47	ppb
Lead	207-1	15.14	15.25	15.23	15.21	0.40	ppb
Lead	208-1	16.22	16.43	16.43	16.36	0.75	ppb
Lithium	6-1				107		%
Magnesium	24-2	21853.35	21825.68	21839.38	21839.47	0.06	ppb
Manganese	55-2	1046.43	1047.54	1055.08	1049.68	0.45	ppb
Molybdenum	94-1	10.28	10.76	10.29	10.44	2.62	ppb
Molybdenum	95-1	0.41	0.41	0.39	0.40	3.19	ppb
Molybdenum	96-1	1.91	1.94	1.92	1.93	0.86	ppb
Molybdenum	97-1	0.41	0.40	0.41	0.41	0.93	ppb
Molybdenum	98-1	0.38	0.41	0.40	0.40	4.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	63.65	63.43	63.87	63.65	0.34	ppb
Phosphorus	31-2	1800.02	1803.19	1763.62	1788.94	1.23	ppb
Potassium	39-2	2222.39	2226.50	2239.85	2229.58	0.41	ppb
Rhodium	103-1				100		%
Rhodium	103-2				97		%
Scandium	45-1				102		%
Scandium	45-2				98		%
Selenium	82-1	-0.22	0.15	-0.40	-0.15		ppb
Selenium	77-2	4.13	6.82	4.03	4.99	31.71	ppb
Selenium	78-2	1.34	-0.06	1.75	1.01	93.67	ppb
Silicon	28-1	1354.00	1383.90	1387.56	1375.15	1.34	ppb
Silver	107-1	0.06	0.06	0.05	0.06	8.43	ppb
Silver	109-1	0.05	0.05	0.05	0.05	3.02	ppb
Sodium	23-2	272.79	271.95	273.43	272.72	0.27	ppb
Strontium	86-1	1658.32	1679.56	1656.27	1664.72	0.77	ppb
Strontium	88-1	1688.11	1745.72	1716.13	1716.65	1.68	ppb
Sulfur	34-1	-759.40	-692.37	-670.66	-707.48		ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.09	0.08	0.09	0.09	5.86	ppb
Thallium	205-1	0.08	0.08	0.08	0.08	0.74	ppb
Tin	118-1	0.47	0.48	0.48	0.48	0.76	ppb
Titanium	47-1	1635.27	1651.49	1650.50	1645.75	0.55	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5191-13A

Instrumnet Name :

P7

Client Sample ID :

MYD033ARE

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:04:49

DataFile Name :

051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.36	1.37	1.37	1.37	0.33	ppb
Vanadium	51-2	118.06	118.37	117.50	117.98	0.37	ppb
Yttrium	89-1				106		%
Yttrium	89-2				102		%
Zinc	66-2	169.26	170.57	170.10	169.97	0.39	ppb
Zirconium	90-1	5.49	5.65	5.52	5.56	1.54	ppb
Zirconium	91-1	5.59	5.71	5.58	5.62	1.24	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5248-01DLX2

Instrumnet Name :

P7

Client Sample ID :

MJNKD0

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 14:08:00

DataFile Name :

052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8402.49	8297.87	8301.82	8334.06	0.71	ppb
Antimony	121-1	290.85	305.92	302.01	299.59	2.61	ppb
Arsenic	75-2	800.43	787.28	797.28	795.00	0.86	ppb
Barium	135-1	118.29	122.82	122.10	121.07	2.01	ppb
Barium	137-1	119.71	124.66	124.47	122.95	2.28	ppb
Beryllium	9-1	0.32	0.36	0.35	0.34	5.79	ppb
Bismuth	209-1				112		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.70	2.87	3.08	2.88	6.53	ppb
Cadmium	106-1	2.08	2.07	1.54	1.90	16.38	ppb
Cadmium	111-1	1.31	1.44	1.39	1.38	4.65	ppb
Calcium	43-1	7092.64	7359.89	7260.79	7237.77	1.87	ppb
Calcium	44-1	6803.59	7152.09	6870.01	6941.90	2.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.81	21.67	21.43	21.64	0.89	ppb
Cobalt	59-2	81.81	80.70	80.05	80.85	1.10	ppb
Copper	63-2	519.30	509.33	503.90	510.84	1.53	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				104		%
Indium	115-1				107		%
Indium	115-2				104		%
Iron	56-2	51198.37	50811.54	50153.78	50721.23	1.04	ppb
Iron	57-2	50867.68	49397.15	49249.42	49838.08	1.80	ppb
Iron	54-2	51250.38	50683.57	50794.58	50909.51	0.59	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-01DLX2 Instrumnet Name : P7
Client Sample ID : MJNKD0 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:08:00 DataFile Name : 052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	766.91	790.08	788.77	781.92	1.66	ppb
Lead	207-1	773.91	782.07	779.17	778.38	0.53	ppb
Lead	208-1	767.08	782.17	781.71	776.99	1.10	ppb
Lithium	6-1				107		%
Magnesium	24-2	4932.53	4920.20	4836.73	4896.49	1.06	ppb
Manganese	55-2	354.61	342.47	344.77	347.29	1.86	ppb
Molybdenum	94-1	18.34	19.54	19.09	18.99	3.20	ppb
Molybdenum	95-1	10.39	10.82	10.53	10.58	2.08	ppb
Molybdenum	96-1	11.66	12.12	11.89	11.89	1.95	ppb
Molybdenum	97-1	10.44	10.98	10.78	10.73	2.53	ppb
Molybdenum	98-1	10.33	10.81	10.61	10.59	2.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.75	22.97	23.07	23.26	1.81	ppb
Phosphorus	31-2	699.99	697.25	678.02	691.75	1.73	ppb
Potassium	39-2	2099.69	2106.13	2105.08	2103.63	0.16	ppb
Rhodium	103-1				102		%
Rhodium	103-2				99		%
Scandium	45-1				102		%
Scandium	45-2				99		%
Selenium	82-1	0.96	0.31	0.22	0.50	81.53	ppb
Selenium	77-2	2.36	4.36	2.80	3.17	33.14	ppb
Selenium	78-2	0.23	-0.17	2.15	0.74	168.72	ppb
Silicon	28-1	1145.04	1176.59	1173.34	1164.99	1.49	ppb
Silver	107-1	1.46	1.58	1.53	1.52	4.07	ppb
Silver	109-1	1.46	1.57	1.51	1.51	3.78	ppb
Sodium	23-2	6311.06	6265.82	6245.41	6274.10	0.54	ppb
Strontium	86-1	1440.21	1513.48	1498.04	1483.91	2.60	ppb
Strontium	88-1	1503.85	1553.97	1524.95	1527.59	1.65	ppb
Sulfur	34-1	685.33	846.56	692.13	741.34	12.30	ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.34	0.38	0.35	0.35	5.46	ppb
Thallium	205-1	0.35	0.35	0.36	0.35	1.58	ppb
Tin	118-1	98.46	102.53	101.61	100.87	2.12	ppb
Titanium	47-1	362.21	374.66	368.99	368.62	1.69	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5248-01DLX2

Instrumnet Name :

P7

Client Sample ID :

MJNKD0

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 14:08:00

DataFile Name :

052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.01	1.04	1.03	1.03	1.77	ppb
Vanadium	51-2	30.07	29.50	29.38	29.65	1.25	ppb
Yttrium	89-1				104		%
Yttrium	89-2				101		%
Zinc	66-2	3597.02	3506.30	3550.28	3551.20	1.28	ppb
Zirconium	90-1	5.50	5.71	5.60	5.60	1.83	ppb
Zirconium	91-1	5.72	5.95	5.92	5.86	2.17	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-02DLX2 Instrumnet Name : P7
Client Sample ID : MJNKD0D Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:11:01 DataFile Name : 053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8282.63	8353.65	8235.81	8290.70	0.72	ppb
Antimony	121-1	296.95	303.31	300.49	300.25	1.06	ppb
Arsenic	75-2	782.17	800.20	805.34	795.90	1.53	ppb
Barium	135-1	118.75	122.58	121.76	121.03	1.67	ppb
Barium	137-1	120.01	124.25	123.18	122.48	1.80	ppb
Beryllium	9-1	0.35	0.34	0.34	0.34	1.98	ppb
Bismuth	209-1				111		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.69	2.58	3.12	2.80	10.19	ppb
Cadmium	106-1	2.17	2.39	2.31	2.29	4.93	ppb
Cadmium	111-1	1.36	1.45	1.38	1.40	3.34	ppb
Calcium	43-1	7112.96	7227.78	7297.56	7212.77	1.29	ppb
Calcium	44-1	6808.30	6940.79	6934.47	6894.52	1.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.76	21.73	21.82	21.77	0.21	ppb
Cobalt	59-2	80.51	80.55	81.20	80.75	0.48	ppb
Copper	63-2	508.08	510.16	520.77	513.00	1.33	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				105		%
Indium	115-1				108		%
Indium	115-2				105		%
Iron	56-2	50599.93	51233.05	50721.44	50851.47	0.66	ppb
Iron	57-2	49547.11	50298.99	50198.83	50014.97	0.82	ppb
Iron	54-2	50858.55	50892.27	50757.42	50836.08	0.14	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-02DLX2 Instrumnet Name : P7
Client Sample ID : MJNKD0D Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:11:01 DataFile Name : 053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	768.28	786.07	786.42	780.26	1.33	ppb
Lead	207-1	774.27	774.91	794.52	781.24	1.47	ppb
Lead	208-1	764.96	777.98	787.50	776.82	1.46	ppb
Lithium	6-1				106		%
Magnesium	24-2	4799.32	4837.80	4922.78	4853.30	1.30	ppb
Manganese	55-2	350.16	348.48	346.88	348.51	0.47	ppb
Molybdenum	94-1	18.42	19.00	18.78	18.73	1.56	ppb
Molybdenum	95-1	10.32	10.66	10.52	10.50	1.65	ppb
Molybdenum	96-1	11.66	11.95	11.80	11.80	1.24	ppb
Molybdenum	97-1	10.43	10.74	10.53	10.56	1.51	ppb
Molybdenum	98-1	10.36	10.74	10.58	10.56	1.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	22.84	23.16	23.75	23.25	1.98	ppb
Phosphorus	31-2	706.34	707.57	731.33	715.08	1.97	ppb
Potassium	39-2	2055.77	2118.75	2152.60	2109.04	2.33	ppb
Rhodium	103-1				102		%
Rhodium	103-2				99		%
Scandium	45-1				103		%
Scandium	45-2				99		%
Selenium	82-1	0.77	-0.02	0.78	0.51	90.27	ppb
Selenium	77-2	2.28	1.88	2.21	2.13	10.13	ppb
Selenium	78-2	-0.05	1.60	0.33	0.63	138.22	ppb
Silicon	28-1	1140.41	1179.57	1193.44	1171.14	2.35	ppb
Silver	107-1	1.45	1.55	1.51	1.50	3.20	ppb
Silver	109-1	1.45	1.49	1.52	1.49	2.54	ppb
Sodium	23-2	6267.70	6226.72	6317.50	6270.64	0.73	ppb
Strontium	86-1	1441.04	1474.86	1484.12	1466.67	1.55	ppb
Strontium	88-1	1493.59	1538.80	1530.53	1520.97	1.58	ppb
Sulfur	34-1	516.36	646.19	687.31	616.62	14.47	ppb
Terbium	159-1				106		%
Terbium	159-2				104		%
Thallium	203-1	0.31	0.32	0.32	0.32	1.34	ppb
Thallium	205-1	0.31	0.31	0.33	0.32	4.37	ppb
Tin	118-1	98.99	101.47	101.49	100.65	1.43	ppb
Titanium	47-1	360.16	371.50	371.47	367.71	1.78	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5248-02DLX2

Instrumnet Name :

P7

Client Sample ID :

MJNKD0D

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 14:11:01

DataFile Name :

053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.01	1.02	1.03	1.02	1.02	ppb
Vanadium	51-2	29.76	29.59	29.69	29.68	0.30	ppb
Yttrium	89-1				105		%
Yttrium	89-2				101		%
Zinc	66-2	3516.50	3532.80	3617.00	3555.43	1.52	ppb
Zirconium	90-1	5.47	5.65	5.55	5.55	1.59	ppb
Zirconium	91-1	5.63	5.78	5.79	5.73	1.60	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5248-01LDLX10

Instrumnet Name :

P7

Client Sample ID :

MJNKD0L

Dilution Factor :

10

Date & Time Acquired :

2024-12-23 14:14:03

DataFile Name :

054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1667.54	1655.34	1639.59	1654.16	0.85	ppb
Antimony	121-1	55.78	57.70	57.88	57.12	2.04	ppb
Arsenic	75-2	166.04	165.31	164.43	165.26	0.49	ppb
Barium	135-1	23.87	24.97	24.66	24.50	2.32	ppb
Barium	137-1	23.97	24.91	25.01	24.63	2.34	ppb
Beryllium	9-1	0.09	0.10	0.07	0.09	19.02	ppb
Bismuth	209-1				109		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.62	0.80	0.69	0.70	12.98	ppb
Cadmium	106-1	-0.42	-1.40	-1.16	-0.99		ppb
Cadmium	111-1	0.22	0.17	0.13	0.17	27.23	ppb
Calcium	43-1	1427.25	1469.06	1484.49	1460.27	2.03	ppb
Calcium	44-1	1439.78	1472.03	1482.95	1464.92	1.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.44	4.30	4.42	4.39	1.76	ppb
Cobalt	59-2	16.40	16.47	16.56	16.48	0.47	ppb
Copper	63-2	100.63	100.28	100.33	100.42	0.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				102		%
Indium	115-1				103		%
Indium	115-2				99		%
Iron	56-2	10225.95	10270.37	10194.40	10230.24	0.37	ppb
Iron	57-2	10321.10	10383.31	10227.13	10310.51	0.76	ppb
Iron	54-2	10313.57	10281.14	10314.80	10303.17	0.19	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-01LDLX10 Instrumnet Name : P7
Client Sample ID : MJNKD0L Dilution Factor : 10
Date & Time Acquired : 2024-12-23 14:14:03 DataFile Name : 054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	144.67	146.65	147.44	146.25	0.97	ppb
Lead	207-1	140.04	143.38	144.23	142.55	1.55	ppb
Lead	208-1	147.95	151.19	153.01	150.72	1.70	ppb
Lithium	6-1				105		%
Magnesium	24-2	973.34	976.27	958.54	969.38	0.98	ppb
Manganese	55-2	69.36	68.89	67.79	68.68	1.17	ppb
Molybdenum	94-1	3.79	3.81	3.84	3.81	0.58	ppb
Molybdenum	95-1	2.18	2.17	2.19	2.18	0.63	ppb
Molybdenum	96-1	2.35	2.46	2.41	2.41	2.24	ppb
Molybdenum	97-1	2.14	2.10	2.15	2.13	1.05	ppb
Molybdenum	98-1	2.13	2.18	2.12	2.14	1.72	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.87	4.86	4.64	4.79	2.73	ppb
Phosphorus	31-2	127.68	121.80	127.08	125.52	2.57	ppb
Potassium	39-2	445.29	443.68	444.62	444.53	0.18	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				97		%
Selenium	82-1	0.28	-0.23	-0.32	-0.09		ppb
Selenium	77-2	0.98	1.30	0.49	0.92	44.05	ppb
Selenium	78-2	-0.14	-0.14	-0.87	-0.38		ppb
Silicon	28-1	231.50	238.24	242.95	237.57	2.42	ppb
Silver	107-1	0.29	0.31	0.32	0.31	5.32	ppb
Silver	109-1	0.30	0.30	0.29	0.30	2.30	ppb
Sodium	23-2	1264.08	1256.47	1237.64	1252.73	1.09	ppb
Strontium	86-1	294.99	300.05	302.57	299.20	1.29	ppb
Strontium	88-1	296.15	300.22	301.24	299.20	0.90	ppb
Sulfur	34-1	-753.33	-677.28	-649.35	-693.32		ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.07	0.07	0.08	0.07	1.45	ppb
Thallium	205-1	0.08	0.07	0.07	0.07	4.20	ppb
Tin	118-1	20.02	20.74	20.68	20.48	1.96	ppb
Titanium	47-1	72.88	74.54	75.56	74.32	1.82	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5248-01LDLX10

Instrumnet Name :

P7

Client Sample ID :

MJNKD0L

Dilution Factor :

10

Date & Time Acquired :

2024-12-23 14:14:03

DataFile Name :

054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.20	0.20	0.21	0.20	0.93	ppb
Vanadium	51-2	6.03	6.03	5.99	6.01	0.39	ppb
Yttrium	89-1				102		%
Yttrium	89-2				97		%
Zinc	66-2	700.11	699.41	694.72	698.08	0.42	ppb
Zirconium	90-1	1.10	1.12	1.14	1.12	2.02	ppb
Zirconium	91-1	1.15	1.23	1.16	1.18	3.58	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-03DLX2 Instrumnet Name : P7
Client Sample ID : MJNKD0S Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:17:18 DataFile Name : 055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8576.54	8657.31	8566.62	8600.16	0.58	ppb
Antimony	121-1	317.36	320.71	322.45	320.17	0.81	ppb
Arsenic	75-2	826.01	824.82	820.92	823.91	0.32	ppb
Barium	135-1	327.99	334.19	336.69	332.96	1.35	ppb
Barium	137-1	351.85	356.42	355.12	354.46	0.66	ppb
Beryllium	9-1	5.61	5.75	5.81	5.72	1.79	ppb
Bismuth	209-1				110		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	8.34	8.54	8.18	8.36	2.14	ppb
Cadmium	106-1	7.04	7.20	7.06	7.10	1.22	ppb
Cadmium	111-1	6.99	7.03	7.15	7.06	1.22	ppb
Calcium	43-1	7476.22	7495.57	7573.82	7515.20	0.69	ppb
Calcium	44-1	7134.91	7066.23	7122.49	7107.87	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	43.82	43.34	43.77	43.64	0.60	ppb
Cobalt	59-2	134.56	135.94	135.72	135.40	0.55	ppb
Copper	63-2	539.90	544.70	542.36	542.32	0.44	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				105		%
Indium	115-1				106		%
Indium	115-2				103		%
Iron	56-2	51639.58	51667.72	51464.42	51590.57	0.21	ppb
Iron	57-2	50963.72	50745.92	51347.25	51018.96	0.60	ppb
Iron	54-2	51451.34	51963.30	52570.82	51995.15	1.08	ppb
Krypton	83-1						cps

LB Number :	LB134068	Operator :	Jaswal
Lab Sample ID :	P5248-03DLX2	Instrumnet Name :	P7
Client Sample ID :	MJNKD0S	Dilution Factor :	2
Date & Time Acquired :	2024-12-23 14:17:18	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	780.46	785.29	790.66	785.47	0.65	ppb
Lead	207-1	788.36	788.43	807.88	794.89	1.42	ppb
Lead	208-1	786.64	789.86	798.77	791.75	0.79	ppb
Lithium	6-1				105		%
Magnesium	24-2	4952.76	4932.19	4856.83	4913.93	1.03	ppb
Manganese	55-2	403.01	403.04	402.36	402.80	0.10	ppb
Molybdenum	94-1	19.04	19.44	19.01	19.16	1.25	ppb
Molybdenum	95-1	10.77	10.82	10.93	10.84	0.76	ppb
Molybdenum	96-1	12.14	12.01	12.16	12.10	0.67	ppb
Molybdenum	97-1	10.94	10.90	10.96	10.93	0.24	ppb
Molybdenum	98-1	10.81	10.83	11.03	10.89	1.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	76.87	78.23	77.19	77.43	0.92	ppb
Phosphorus	31-2	706.92	704.06	728.28	713.09	1.86	ppb
Potassium	39-2	2140.78	2137.57	2151.58	2143.31	0.34	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				99		%
Selenium	82-1	12.01	12.23	11.59	11.94	2.71	ppb
Selenium	77-2	14.81	13.85	14.79	14.48	3.77	ppb
Selenium	78-2	13.19	11.79	12.38	12.45	5.63	ppb
Silicon	28-1	1196.71	1203.36	1214.82	1204.96	0.76	ppb
Silver	107-1	7.09	7.13	7.27	7.16	1.27	ppb
Silver	109-1	7.04	7.05	7.18	7.09	1.07	ppb
Sodium	23-2	6330.70	6347.62	6344.76	6341.03	0.14	ppb
Strontium	86-1	1501.01	1513.50	1521.95	1512.15	0.70	ppb
Strontium	88-1	1543.52	1559.60	1559.06	1554.06	0.59	ppb
Sulfur	34-1	683.94	576.56	600.48	620.33	9.09	ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	5.00	4.99	5.08	5.02	0.93	ppb
Thallium	205-1	4.93	5.01	5.08	5.01	1.45	ppb
Tin	118-1	102.53	104.29	104.57	103.80	1.06	ppb
Titanium	47-1	377.91	378.52	382.44	379.63	0.65	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5248-03DLX2

Instrumnet Name :

P7

Client Sample ID :

MJNKD0S

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 14:17:18

DataFile Name :

055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.02	1.04	1.05	1.04	1.71	ppb
Vanadium	51-2	82.88	82.84	83.56	83.09	0.49	ppb
Yttrium	89-1				103		%
Yttrium	89-2				100		%
Zinc	66-2	3557.07	3637.93	3648.34	3614.45	1.38	ppb
Zirconium	90-1	5.59	5.71	5.65	5.65	1.09	ppb
Zirconium	91-1	5.86	5.98	5.89	5.91	1.08	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-12DLX2 Instrumnet Name : P7
Client Sample ID : MJNLH6 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:20:22 DataFile Name : 056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7747.22	7904.97	7822.30	7824.83	1.01	ppb
Antimony	121-1	309.51	315.22	315.00	313.24	1.03	ppb
Arsenic	75-2	767.68	770.42	779.66	772.59	0.81	ppb
Barium	135-1	113.58	115.32	115.04	114.65	0.81	ppb
Barium	137-1	115.10	116.90	117.92	116.64	1.22	ppb
Beryllium	9-1	0.40	0.34	0.32	0.35	11.75	ppb
Bismuth	209-1				110		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	3.02	2.49	2.68	2.73	9.79	ppb
Cadmium	106-1	1.95	1.96	1.25	1.72	23.72	ppb
Cadmium	111-1	1.21	1.29	1.13	1.21	6.85	ppb
Calcium	43-1	8672.92	8823.45	8737.91	8744.76	0.86	ppb
Calcium	44-1	8258.35	8343.39	8428.86	8343.53	1.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.43	20.76	20.51	20.57	0.84	ppb
Cobalt	59-2	77.58	77.79	77.98	77.78	0.25	ppb
Copper	63-2	481.33	472.03	476.36	476.57	0.98	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				103		%
Indium	115-1				107		%
Indium	115-2				104		%
Iron	56-2	49020.24	49168.80	48654.29	48947.78	0.54	ppb
Iron	57-2	48052.84	48592.09	47769.02	48137.98	0.87	ppb
Iron	54-2	49035.61	49064.44	48574.70	48891.58	0.56	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-12DLX2 Instrumnet Name : P7
Client Sample ID : MJNLH6 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:20:22 DataFile Name : 056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	724.02	725.53	727.83	725.79	0.26	ppb
Lead	207-1	723.54	721.83	727.03	724.14	0.37	ppb
Lead	208-1	720.50	725.03	723.75	723.09	0.32	ppb
Lithium	6-1				106		%
Magnesium	24-2	4573.05	4510.42	4579.52	4554.33	0.84	ppb
Manganese	55-2	339.13	344.97	334.75	339.62	1.51	ppb
Molybdenum	94-1	17.03	17.43	17.83	17.43	2.28	ppb
Molybdenum	95-1	9.79	10.07	9.99	9.95	1.44	ppb
Molybdenum	96-1	11.05	11.04	11.17	11.09	0.64	ppb
Molybdenum	97-1	9.81	10.10	10.18	10.03	1.94	ppb
Molybdenum	98-1	9.83	10.01	10.18	10.01	1.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	21.81	22.14	22.47	22.14	1.49	ppb
Phosphorus	31-2	705.17	744.89	729.23	726.43	2.75	ppb
Potassium	39-2	2057.39	2064.72	2080.03	2067.38	0.56	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				102		%
Scandium	45-2				98		%
Selenium	82-1	0.24	0.44	0.57	0.42	39.62	ppb
Selenium	77-2	2.80	2.81	3.35	2.98	10.48	ppb
Selenium	78-2	-0.50	-0.02	-0.20	-0.24		ppb
Silicon	28-1	959.12	972.33	972.60	968.02	0.80	ppb
Silver	107-1	1.40	1.44	1.44	1.43	1.51	ppb
Silver	109-1	1.40	1.44	1.42	1.42	1.20	ppb
Sodium	23-2	5877.78	5827.73	5859.14	5854.88	0.43	ppb
Strontium	86-1	1554.66	1552.16	1569.78	1558.87	0.61	ppb
Strontium	88-1	1594.29	1612.16	1637.13	1614.53	1.33	ppb
Sulfur	34-1	160.59	201.46	217.41	193.15	15.17	ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.27	0.27	0.31	0.28	9.12	ppb
Thallium	205-1	0.27	0.27	0.28	0.27	0.53	ppb
Tin	118-1	91.63	92.60	93.51	92.58	1.02	ppb
Titanium	47-1	329.91	338.33	337.23	335.16	1.37	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-12DLX2 Instrumnet Name : P7
Client Sample ID : MJNLH6 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:20:22 DataFile Name : 056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.91	0.89	0.93	0.91	1.85	ppb
Vanadium	51-2	28.47	28.82	28.62	28.64	0.60	ppb
Yttrium	89-1				105		%
Yttrium	89-2				101		%
Zinc	66-2	3353.70	3366.39	3341.99	3354.03	0.36	ppb
Zirconium	90-1	5.08	5.09	5.22	5.13	1.50	ppb
Zirconium	91-1	5.31	5.20	5.39	5.30	1.83	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV044 Instrumnet Name : P7
Client Sample ID : CCV044 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:23:22 DataFile Name : 057CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50539.08	49880.48	49845.50	50088.35	0.78	ppb
Antimony	121-1	472.00	501.39	490.35	487.91	3.04	ppb
Arsenic	75-2	487.52	484.68	482.30	484.84	0.54	ppb
Barium	135-1	2382.94	2519.81	2486.81	2463.18	2.90	ppb
Barium	137-1	2415.01	2541.24	2523.31	2493.19	2.74	ppb
Beryllium	9-1	471.08	478.26	480.85	476.73	1.06	ppb
Bismuth	209-1				98		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	466.45	496.54	485.67	482.89	3.16	ppb
Cadmium	106-1	474.39	494.84	486.70	485.31	2.12	ppb
Cadmium	111-1	447.24	468.93	468.94	461.70	2.71	ppb
Calcium	43-1	243768.20	255604.20	257487.91	252286.77	2.95	ppb
Calcium	44-1	240314.06	258072.71	258919.64	252435.47	4.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	502.66	490.66	489.51	494.27	1.47	ppb
Cobalt	59-2	485.29	484.58	481.96	483.94	0.36	ppb
Copper	63-2	4707.82	4716.02	4733.48	4719.10	0.28	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				98		%
Indium	115-1				90		%
Indium	115-2				86		%
Iron	56-2	126349.35	125773.73	125535.47	125886.19	0.33	ppb
Iron	57-2	125867.15	126698.16	126134.01	126233.10	0.34	ppb
Iron	54-2	127307.23	127934.13	126110.36	127117.24	0.73	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV044 Instrumnet Name : P7
Client Sample ID : CCV044 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:23:22 DataFile Name : 057CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2414.67	2612.99	2495.08	2507.58	3.98	ppb
Lead	207-1	2412.25	2587.64	2492.21	2497.37	3.52	ppb
Lead	208-1	2417.30	2584.44	2499.82	2500.52	3.34	ppb
Lithium	6-1				100		%
Magnesium	24-2	236200.78	234535.70	236503.74	235746.74	0.45	ppb
Manganese	55-2	4924.12	4866.91	4851.91	4880.98	0.78	ppb
Molybdenum	94-1	4735.36	4888.50	4927.01	4850.29	2.09	ppb
Molybdenum	95-1	4718.52	4924.62	4904.90	4849.35	2.35	ppb
Molybdenum	96-1	4718.65	4941.30	4903.49	4854.48	2.45	ppb
Molybdenum	97-1	4742.53	4958.29	4889.08	4863.30	2.27	ppb
Molybdenum	98-1	4749.58	4956.52	4888.98	4865.03	2.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	463.03	457.36	457.43	459.27	0.71	ppb
Phosphorus	31-2	9841.57	9764.47	9832.02	9812.69	0.43	ppb
Potassium	39-2	123152.68	122423.27	122371.48	122649.14	0.36	ppb
Rhodium	103-1				87		%
Rhodium	103-2				83		%
Scandium	45-1				91		%
Scandium	45-2				85		%
Selenium	82-1	450.37	475.18	474.54	466.70	3.03	ppb
Selenium	77-2	476.34	476.50	484.84	479.23	1.01	ppb
Selenium	78-2	485.50	491.56	467.41	481.49	2.61	ppb
Silicon	28-1	188.07	206.24	207.61	200.64	5.44	ppb
Silver	107-1	477.28	489.67	478.37	481.77	1.42	ppb
Silver	109-1	472.11	483.88	485.88	480.62	1.55	ppb
Sodium	23-2	246240.53	247689.88	245291.49	246407.30	0.49	ppb
Strontium	86-1	11837.44	12424.60	12472.57	12244.87	2.89	ppb
Strontium	88-1	11829.60	12313.43	12465.08	12202.70	2.72	ppb
Sulfur	34-1	9092.69	9956.56	9896.48	9648.58	5.00	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	481.54	511.63	510.02	501.06	3.38	ppb
Thallium	205-1	483.34	518.90	501.19	501.14	3.55	ppb
Tin	118-1	475.59	502.25	490.78	489.54	2.73	ppb
Titanium	47-1	4694.91	4963.88	5028.86	4895.88	3.62	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCV044

Instrumnet Name :

P7

Client Sample ID :

CCV044

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:23:22

DataFile Name :

057CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	468.53	498.62	493.20	486.79	3.29	ppb
Vanadium	51-2	502.04	504.43	501.73	502.73	0.29	ppb
Yttrium	89-1				94		%
Yttrium	89-2				88		%
Zinc	66-2	4638.75	4633.49	4635.00	4635.75	0.06	ppb
Zirconium	90-1	471.24	493.46	491.18	485.29	2.52	ppb
Zirconium	91-1	466.98	493.31	500.01	486.76	3.59	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCB044Instrumnet Name :P7

Client Sample ID :CCB044Dilution Factor :1

Date & Time Acquired :2024-12-23 14:26:08DataFile Name :058CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.83	2.01	1.53	2.12	31.02	ppb
Antimony	121-1	0.26	0.22	0.22	0.23	10.23	ppb
Arsenic	75-2	0.07	0.02	0.02	0.04	86.73	ppb
Barium	135-1	0.39	0.36	0.26	0.34	19.72	ppb
Barium	137-1	0.36	0.38	0.31	0.35	9.83	ppb
Beryllium	9-1	0.15	0.11	0.11	0.12	20.33	ppb
Bismuth	209-1				110		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.06	0.06	0.03	0.05	34.70	ppb
Cadmium	106-1	-1.12	-1.72	-0.89	-1.25		ppb
Cadmium	111-1	0.00	-0.03	0.03	0.00		ppb
Calcium	43-1	47.45	43.31	32.55	41.10	18.71	ppb
Calcium	44-1	38.43	39.33	27.68	35.15	18.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.02	0.01	0.02	32.99	ppb
Cobalt	59-2	0.03	0.02	0.02	0.02	39.08	ppb
Copper	63-2	0.34	0.23	0.21	0.26	26.75	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	56-2	7.76	6.00	4.59	6.11	25.93	ppb
Iron	57-2	7.76	6.10	5.26	6.37	19.92	ppb
Iron	54-2	8.75	5.91	4.39	6.35	34.80	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB044 Instrumnet Name : P7
Client Sample ID : CCB044 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:26:08 DataFile Name : 058CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.43	0.46	0.35	0.42	13.52	ppb
Lead	207-1	0.45	0.44	0.35	0.41	13.85	ppb
Lead	208-1	0.44	0.44	0.35	0.41	12.00	ppb
Lithium	6-1				107		%
Magnesium	24-2	14.43	10.25	8.50	11.06	27.55	ppb
Manganese	55-2	0.34	0.25	0.17	0.25	34.97	ppb
Molybdenum	94-1	0.82	0.85	0.68	0.78	11.92	ppb
Molybdenum	95-1	0.83	0.85	0.64	0.77	14.60	ppb
Molybdenum	96-1	0.85	0.80	0.66	0.77	12.99	ppb
Molybdenum	97-1	0.82	0.80	0.71	0.78	7.91	ppb
Molybdenum	98-1	0.86	0.81	0.64	0.77	14.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.01	0.01	0.01	63.96	ppb
Phosphorus	31-2	-12.51	-16.89	-17.02	-15.47		ppb
Potassium	39-2	12.93	13.06	10.12	12.04	13.80	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				94		%
Scandium	45-2				89		%
Selenium	82-1	-0.33	-0.49	-0.37	-0.40		ppb
Selenium	77-2	0.01	0.02	0.01	0.01	13.78	ppb
Selenium	78-2	-1.05	-0.64	-0.41	-0.70		ppb
Silicon	28-1	-14.47	-13.57	-14.97	-14.34		ppb
Silver	107-1	0.13	0.12	0.10	0.12	15.84	ppb
Silver	109-1	0.13	0.11	0.10	0.11	13.43	ppb
Sodium	23-2	29.25	27.04	23.34	26.54	11.24	ppb
Strontium	86-1	1.40	1.11	1.16	1.22	13.07	ppb
Strontium	88-1	1.94	1.73	1.55	1.74	11.16	ppb
Sulfur	34-1	-282.38	-150.53	-280.21	-237.70		ppb
Terbium	159-1				103		%
Terbium	159-2				100		%
Thallium	203-1	0.12	0.12	0.08	0.11	21.47	ppb
Thallium	205-1	0.14	0.12	0.10	0.12	17.01	ppb
Tin	118-1	0.10	0.09	0.08	0.09	12.54	ppb
Titanium	47-1	0.74	0.77	0.58	0.70	14.70	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCB044

Instrumnet Name :

P7

Client Sample ID :

CCB044

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:26:08

DataFile Name :

058CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.07	0.07	0.05	0.06	16.30	ppb
Vanadium	51-2	0.03	0.02	0.02	0.02	25.51	ppb
Yttrium	89-1				98		%
Yttrium	89-2				93		%
Zinc	66-2	0.32	0.32	0.22	0.29	21.39	ppb
Zirconium	90-1	0.09	0.09	0.07	0.08	10.89	ppb
Zirconium	91-1	0.09	0.10	0.08	0.09	13.02	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :PB165532BLInstrumnet Name :P7

Client Sample ID :PBS532Dilution Factor :1

Date & Time Acquired :2024-12-23 14:35:44DataFile Name :059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.30	0.42	0.24	0.32	28.64	ppb
Antimony	121-1	0.03	0.03	0.02	0.03	14.21	ppb
Arsenic	75-2	-0.02	0.00	0.00	-0.01		ppb
Barium	135-1	0.00	0.00	0.00	0.00		ppb
Barium	137-1	0.00	0.00	0.00	0.00	373.10	ppb
Beryllium	9-1	0.00	0.02	0.01	0.01	129.43	ppb
Bismuth	209-1				109		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.00	-0.03	-0.02	-0.02		ppb
Cadmium	106-1	-1.93	-1.92	-2.05	-1.96		ppb
Cadmium	111-1	-0.14	-0.13	-0.14	-0.13		ppb
Calcium	43-1	0.63	1.42	1.85	1.30	47.61	ppb
Calcium	44-1	-3.76	-3.45	-3.26	-3.49		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	0.01	-0.01	-0.01		ppb
Cobalt	59-2	0.01	0.00	0.01	0.00	80.36	ppb
Copper	63-2	0.00	0.01	0.02	0.01	131.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				102		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	56-2	0.22	0.20	0.19	0.20	7.39	ppb
Iron	57-2	0.54	0.05	0.28	0.29	84.10	ppb
Iron	54-2	1.15	0.25	0.21	0.54	98.39	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165532BL Instrumnet Name : P7
Client Sample ID : PBS532 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:35:44 DataFile Name : 059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.03	0.04	0.04	0.04	11.82	ppb
Lead	207-1	0.04	0.04	0.04	0.04	4.85	ppb
Lead	208-1	0.04	0.04	0.04	0.04	3.20	ppb
Lithium	6-1				107		%
Magnesium	24-2	0.63	0.69	0.72	0.68	6.66	ppb
Manganese	55-2	0.01	0.02	0.01	0.01	44.33	ppb
Molybdenum	94-1	0.02	0.01	0.01	0.01	61.77	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	17.70	ppb
Molybdenum	96-1	0.00	0.01	0.01	0.00	112.35	ppb
Molybdenum	97-1	0.01	0.01	0.00	0.01	63.70	ppb
Molybdenum	98-1	0.01	0.01	0.00	0.01	56.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	0.00	-0.03	-0.02		ppb
Phosphorus	31-2	-14.93	-18.93	-16.59	-16.82		ppb
Potassium	39-2	0.16	0.74	0.68	0.53	60.74	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				99		%
Scandium	45-2				93		%
Selenium	82-1	-0.19	-0.36	-0.39	-0.32		ppb
Selenium	77-2	0.33	-0.16	-0.16	0.01	4913.88	ppb
Selenium	78-2	-1.91	-1.25	-1.59	-1.58		ppb
Silicon	28-1	-13.97	-13.39	-13.16	-13.51		ppb
Silver	107-1	0.00	0.01	0.00	0.00	35.69	ppb
Silver	109-1	0.00	0.00	0.01	0.00	37.83	ppb
Sodium	23-2	7.43	6.10	6.49	6.67	10.26	ppb
Strontium	86-1	-0.47	-0.44	-0.54	-0.48		ppb
Strontium	88-1	0.04	0.02	-0.03	0.01	391.56	ppb
Sulfur	34-1	-221.98	-138.86	-183.34	-181.40		ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.02	0.02	0.02	0.02	7.26	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	5.28	ppb
Tin	118-1	0.00	0.00	-0.01	0.00		ppb
Titanium	47-1	-0.01	0.00	-0.02	-0.01		ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

PB165532BL

Instrumnet Name :

P7

Client Sample ID :

PBS532

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:35:44

DataFile Name :

059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	98.13	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	75.32	ppb
Yttrium	89-1				100		%
Yttrium	89-2				96		%
Zinc	66-2	0.04	0.05	0.05	0.04	12.43	ppb
Zirconium	90-1	0.01	0.00	0.00	0.00	80.42	ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	71.04	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :PB165532BSInstrumnet Name :P7

Client Sample ID :LCS532Dilution Factor :1

Date & Time Acquired :2024-12-23 14:39:00DataFile Name :060LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38.25	38.01	37.29	37.85	1.32	ppb
Antimony	121-1	3.88	4.07	4.01	3.99	2.51	ppb
Arsenic	75-2	2.23	2.27	2.16	2.22	2.59	ppb
Barium	135-1	18.79	19.44	18.82	19.01	1.93	ppb
Barium	137-1	19.09	19.51	19.04	19.21	1.36	ppb
Beryllium	9-1	2.06	2.17	2.12	2.12	2.47	ppb
Bismuth	209-1				107		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.98	2.17	1.74	1.96	11.06	ppb
Cadmium	106-1	0.95	0.97	0.61	0.85	23.89	ppb
Cadmium	111-1	2.11	2.06	2.07	2.08	1.45	ppb
Calcium	43-1	1056.18	1070.92	1050.10	1059.06	1.01	ppb
Calcium	44-1	1062.93	1049.40	1057.82	1056.72	0.65	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.83	3.84	3.89	3.85	0.76	ppb
Cobalt	59-2	2.00	2.03	2.03	2.02	0.95	ppb
Copper	63-2	4.08	4.22	4.19	4.16	1.67	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	56-2	416.42	413.26	409.45	413.05	0.84	ppb
Iron	57-2	423.93	423.17	417.75	421.62	0.80	ppb
Iron	54-2	421.84	420.04	428.14	423.34	1.00	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165532BS Instrumnet Name : P7
Client Sample ID : LCS532 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:39:00 DataFile Name : 060LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.83	1.84	1.85	1.84	0.61	ppb
Lead	207-1	1.78	1.88	1.81	1.82	2.66	ppb
Lead	208-1	1.83	1.84	1.81	1.83	0.77	ppb
Lithium	6-1				104		%
Magnesium	24-2	912.34	921.44	914.00	915.93	0.53	ppb
Manganese	55-2	1.98	2.04	2.06	2.03	2.02	ppb
Molybdenum	94-1	11.45	11.52	11.46	11.47	0.32	ppb
Molybdenum	95-1	9.67	9.59	9.59	9.62	0.48	ppb
Molybdenum	96-1	9.78	9.73	9.87	9.79	0.69	ppb
Molybdenum	97-1	9.52	9.63	9.70	9.62	0.97	ppb
Molybdenum	98-1	9.66	9.64	9.52	9.61	0.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.06	2.03	2.02	2.04	1.02	ppb
Phosphorus	31-2	32.05	33.81	28.59	31.48	8.44	ppb
Potassium	39-2	1015.23	1020.96	1019.13	1018.44	0.29	ppb
Rhodium	103-1				100		%
Rhodium	103-2				97		%
Scandium	45-1				98		%
Scandium	45-2				95		%
Selenium	82-1	10.35	9.48	9.77	9.87	4.46	ppb
Selenium	77-2	13.76	7.80	9.45	10.33	29.79	ppb
Selenium	78-2	7.78	9.79	9.98	9.19	13.28	ppb
Silicon	28-1	-2.09	-2.55	-2.10	-2.25		ppb
Silver	107-1	2.02	2.12	2.02	2.05	2.72	ppb
Silver	109-1	1.99	2.07	2.01	2.03	1.91	ppb
Sodium	23-2	953.69	952.00	953.92	953.20	0.11	ppb
Strontium	86-1	47.55	47.82	49.91	48.43	2.67	ppb
Strontium	88-1	48.69	47.79	48.40	48.30	0.95	ppb
Sulfur	34-1	-22.40	-41.26	-58.31	-40.66		ppb
Terbium	159-1				102		%
Terbium	159-2				100		%
Thallium	203-1	1.77	1.79	1.78	1.78	0.36	ppb
Thallium	205-1	1.80	1.80	1.75	1.79	1.59	ppb
Tin	118-1	9.85	10.14	9.86	9.95	1.67	ppb
Titanium	47-1	2.21	2.41	2.50	2.37	6.37	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165532BS Instrumnet Name : P7
Client Sample ID : LCS532 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:39:00 DataFile Name : 060LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.62	1.62	1.61	1.62	0.42	ppb
Vanadium	51-2	9.86	10.00	10.03	9.96	0.92	ppb
Yttrium	89-1				99		%
Yttrium	89-2				96		%
Zinc	66-2	10.30	10.36	10.22	10.29	0.70	ppb
Zirconium	90-1	1.92	1.96	1.92	1.93	1.24	ppb
Zirconium	91-1	1.92	1.93	1.97	1.94	1.40	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-01 Instrumnet Name : P7
Client Sample ID : ME28N9 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:43:10 DataFile Name : 061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15014.94	15046.07	14746.11	14935.71	1.10	ppb
Antimony	121-1	0.25	0.25	0.26	0.25	1.38	ppb
Arsenic	75-2	16.06	15.44	15.96	15.82	2.11	ppb
Barium	135-1	131.28	130.58	133.86	131.91	1.31	ppb
Barium	137-1	133.88	133.75	136.73	134.78	1.25	ppb
Beryllium	9-1	1.30	1.16	1.28	1.25	6.27	ppb
Bismuth	209-1				112		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.22	1.04	1.21	1.16	8.66	ppb
Cadmium	106-1	-0.16	-0.74	-0.27	-0.39		ppb
Cadmium	111-1	0.64	0.58	0.68	0.64	7.96	ppb
Calcium	43-1	11356.73	11519.45	11466.21	11447.46	0.72	ppb
Calcium	44-1	10963.51	11139.73	10996.48	11033.24	0.85	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	27.87	27.75	27.58	27.73	0.54	ppb
Cobalt	59-2	16.99	16.99	16.81	16.93	0.61	ppb
Copper	63-2	35.14	35.15	34.93	35.07	0.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				106		%
Indium	115-1				105		%
Indium	115-2				99		%
Iron	56-2	35098.38	35212.57	34601.36	34970.77	0.93	ppb
Iron	57-2	34633.18	34726.73	34748.54	34702.82	0.18	ppb
Iron	54-2	35616.56	35157.78	34957.24	35243.86	0.96	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-01 Instrumnet Name : P7
Client Sample ID : ME28N9 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:43:10 DataFile Name : 061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	38.46	38.55	39.09	38.70	0.88	ppb
Lead	207-1	34.89	35.27	35.70	35.29	1.14	ppb
Lead	208-1	36.19	36.55	36.75	36.50	0.76	ppb
Lithium	6-1				109		%
Magnesium	24-2	5739.52	5656.33	5619.06	5671.63	1.09	ppb
Manganese	55-2	1347.96	1359.07	1329.68	1345.57	1.10	ppb
Molybdenum	94-1	12.04	12.06	12.13	12.07	0.38	ppb
Molybdenum	95-1	9.35	9.50	9.44	9.43	0.82	ppb
Molybdenum	96-1	9.97	10.10	10.06	10.04	0.67	ppb
Molybdenum	97-1	9.26	9.68	9.41	9.45	2.27	ppb
Molybdenum	98-1	9.48	9.61	9.63	9.57	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	93.46	92.58	92.39	92.81	0.61	ppb
Phosphorus	31-2	677.10	651.77	674.63	667.83	2.09	ppb
Potassium	39-2	3273.83	3278.68	3281.27	3277.93	0.12	ppb
Rhodium	103-1				104		%
Rhodium	103-2				101		%
Scandium	45-1				104		%
Scandium	45-2				99		%
Selenium	82-1	0.69	0.61	0.81	0.71	14.39	ppb
Selenium	77-2	9.60	6.79	8.42	8.27	17.07	ppb
Selenium	78-2	0.70	0.85	0.27	0.61	49.26	ppb
Silicon	28-1	2628.87	2647.89	2680.76	2652.51	0.99	ppb
Silver	107-1	0.20	0.15	0.15	0.17	17.71	ppb
Silver	109-1	0.21	0.15	0.15	0.17	20.33	ppb
Sodium	23-2	332.03	334.48	328.18	331.56	0.96	ppb
Strontium	86-1	1135.67	1152.75	1155.70	1148.04	0.94	ppb
Strontium	88-1	1166.12	1205.95	1169.64	1180.57	1.87	ppb
Sulfur	34-1	313.23	243.76	155.31	237.43	33.34	ppb
Terbium	159-1				108		%
Terbium	159-2				104		%
Thallium	203-1	0.40	0.36	0.38	0.38	5.25	ppb
Thallium	205-1	0.39	0.37	0.37	0.37	2.65	ppb
Tin	118-1	0.65	0.67	0.64	0.65	2.88	ppb
Titanium	47-1	107.96	109.95	110.12	109.34	1.10	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-01

Instrumnet Name :

P7

Client Sample ID :

ME28N9

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:43:10

DataFile Name :

061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.33	1.35	1.36	1.35	1.07	ppb
Vanadium	51-2	37.19	36.80	36.61	36.87	0.81	ppb
Yttrium	89-1				112		%
Yttrium	89-2				106		%
Zinc	66-2	129.01	127.04	126.70	127.59	0.98	ppb
Zirconium	90-1	2.33	2.39	2.37	2.36	1.16	ppb
Zirconium	91-1	2.36	2.36	2.49	2.40	3.17	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-02 Instrumnet Name : P7
Client Sample ID : ME28P0 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:46:17 DataFile Name : 062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21104.78	21273.82	21152.29	21176.97	0.41	ppb
Antimony	121-1	0.15	0.16	0.17	0.16	5.00	ppb
Arsenic	75-2	15.65	15.76	15.46	15.63	0.98	ppb
Barium	135-1	137.48	139.55	140.04	139.02	0.98	ppb
Barium	137-1	139.44	142.00	142.56	141.33	1.18	ppb
Beryllium	9-1	1.28	1.48	1.44	1.40	7.47	ppb
Bismuth	209-1				110		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.04	0.90	0.99	0.97	7.35	ppb
Cadmium	106-1	0.21	-0.33	-0.10	-0.07		ppb
Cadmium	111-1	0.54	0.53	0.48	0.52	6.57	ppb
Calcium	43-1	5325.86	5330.92	5395.93	5350.90	0.73	ppb
Calcium	44-1	5046.90	5122.72	5114.93	5094.85	0.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	36.99	36.94	37.56	37.16	0.93	ppb
Cobalt	59-2	23.63	23.64	23.87	23.71	0.58	ppb
Copper	63-2	41.00	41.02	41.40	41.14	0.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				104		%
Indium	115-1				102		%
Indium	115-2				98		%
Iron	56-2	49848.16	49447.95	49500.37	49598.83	0.44	ppb
Iron	57-2	49003.42	49000.36	49892.92	49298.90	1.04	ppb
Iron	54-2	50190.73	49701.04	50366.06	50085.94	0.69	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-02 Instrumnet Name : P7
Client Sample ID : ME28P0 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:46:17 DataFile Name : 062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	25.68	25.93	25.75	25.79	0.50	ppb
Lead	207-1	23.42	23.84	23.48	23.58	0.97	ppb
Lead	208-1	24.08	24.50	24.21	24.26	0.89	ppb
Lithium	6-1				107		%
Magnesium	24-2	6831.95	6848.23	6840.09	6840.09	0.12	ppb
Manganese	55-2	836.78	832.93	826.70	832.13	0.61	ppb
Molybdenum	94-1	13.69	14.13	13.93	13.92	1.57	ppb
Molybdenum	95-1	9.45	9.71	9.62	9.59	1.37	ppb
Molybdenum	96-1	10.43	10.77	10.39	10.53	2.01	ppb
Molybdenum	97-1	9.55	9.71	9.68	9.64	0.87	ppb
Molybdenum	98-1	9.66	9.73	9.56	9.65	0.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	63.80	63.17	63.26	63.41	0.54	ppb
Phosphorus	31-2	474.58	474.67	468.97	472.74	0.69	ppb
Potassium	39-2	3221.81	3206.41	3241.16	3223.13	0.54	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				102		%
Scandium	45-2				97		%
Selenium	82-1	0.47	0.18	0.76	0.47	61.90	ppb
Selenium	77-2	12.35	12.40	13.61	12.79	5.60	ppb
Selenium	78-2	1.45	0.67	1.55	1.22	39.58	ppb
Silicon	28-1	2945.05	2988.39	2992.21	2975.22	0.88	ppb
Silver	107-1	0.08	0.08	0.09	0.08	6.66	ppb
Silver	109-1	0.08	0.09	0.09	0.09	6.76	ppb
Sodium	23-2	301.53	301.54	303.84	302.30	0.44	ppb
Strontium	86-1	925.72	943.22	932.05	933.66	0.95	ppb
Strontium	88-1	962.97	967.63	962.64	964.41	0.29	ppb
Sulfur	34-1	-859.88	-949.41	-972.91	-927.40		ppb
Terbium	159-1				107		%
Terbium	159-2				104		%
Thallium	203-1	0.40	0.43	0.44	0.42	4.64	ppb
Thallium	205-1	0.43	0.43	0.45	0.43	2.39	ppb
Tin	118-1	0.63	0.65	0.65	0.64	1.49	ppb
Titanium	47-1	137.00	138.42	138.98	138.13	0.74	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-02

Instrumnet Name :

P7

Client Sample ID :

ME28P0

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:46:17

DataFile Name :

062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.59	1.63	1.58	1.60	1.48	ppb
Vanadium	51-2	46.91	47.04	47.15	47.03	0.25	ppb
Yttrium	89-1				113		%
Yttrium	89-2				107		%
Zinc	66-2	121.44	121.68	122.13	121.75	0.29	ppb
Zirconium	90-1	3.23	3.29	3.27	3.26	0.95	ppb
Zirconium	91-1	3.21	3.34	3.25	3.27	2.08	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-03 Instrumnet Name : P7
Client Sample ID : ME28P1 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:49:28 DataFile Name : 063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13921.50	12417.95	12371.88	12903.78	6.83	ppb
Antimony	121-1	0.33	0.35	0.33	0.34	2.91	ppb
Arsenic	75-2	12.02	11.32	11.32	11.55	3.50	ppb
Barium	135-1	146.57	147.55	147.95	147.36	0.48	ppb
Barium	137-1	149.23	151.38	150.89	150.50	0.75	ppb
Beryllium	9-1	0.77	0.84	0.80	0.80	4.74	ppb
Bismuth	209-1				105		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.02	1.07	0.88	0.99	10.10	ppb
Cadmium	106-1	0.86	-0.19	0.57	0.41	130.70	ppb
Cadmium	111-1	0.59	0.55	0.62	0.59	6.18	ppb
Calcium	43-1	175738.87	176188.45	176034.33	175987.22	0.13	ppb
Calcium	44-1	177110.59	175783.87	174642.94	175845.80	0.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	32.08	28.47	28.16	29.57	7.38	ppb
Cobalt	59-2	18.22	16.29	16.01	16.84	7.14	ppb
Copper	63-2	34.36	30.50	29.54	31.47	8.10	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				99		%
Indium	115-1				100		%
Indium	115-2				91		%
Iron	56-2	38587.41	34286.64	34021.59	35631.88	7.19	ppb
Iron	57-2	39159.44	35094.25	34686.98	36313.56	6.81	ppb
Iron	54-2	38424.46	34365.65	34103.46	35631.19	6.80	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-03 Instrumnet Name : P7
Client Sample ID : ME28P1 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:49:28 DataFile Name : 063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	15.59	15.49	15.37	15.48	0.70	ppb
Lead	207-1	13.65	13.45	13.37	13.49	1.08	ppb
Lead	208-1	14.30	14.18	14.04	14.18	0.92	ppb
Lithium	6-1				106		%
Magnesium	24-2	63094.52	56500.63	56214.38	58603.18	6.64	ppb
Manganese	55-2	710.08	655.06	640.37	668.50	5.50	ppb
Molybdenum	94-1	14.34	14.32	14.54	14.40	0.83	ppb
Molybdenum	95-1	6.32	6.19	6.29	6.26	1.08	ppb
Molybdenum	96-1	7.35	7.30	7.29	7.31	0.42	ppb
Molybdenum	97-1	6.35	6.30	6.22	6.29	1.05	ppb
Molybdenum	98-1	6.24	6.19	6.34	6.26	1.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	49.91	44.42	44.02	46.11	7.14	ppb
Phosphorus	31-2	759.63	666.59	665.74	697.32	7.74	ppb
Potassium	39-2	2487.64	2194.15	2163.99	2281.93	7.84	ppb
Rhodium	103-1				97		%
Rhodium	103-2				91		%
Scandium	45-1				101		%
Scandium	45-2				91		%
Selenium	82-1	1.19	0.27	0.60	0.69	68.22	ppb
Selenium	77-2	8.69	10.02	7.00	8.57	17.71	ppb
Selenium	78-2	0.42	0.43	-0.37	0.16	292.42	ppb
Silicon	28-1	2429.96	2489.91	2465.21	2461.69	1.22	ppb
Silver	107-1	0.12	0.11	0.12	0.12	6.87	ppb
Silver	109-1	0.10	0.11	0.10	0.10	5.27	ppb
Sodium	23-2	347.50	307.01	306.30	320.27	7.37	ppb
Strontium	86-1	10461.25	10361.31	10414.28	10412.28	0.48	ppb
Strontium	88-1	10302.48	10316.80	10375.96	10331.75	0.38	ppb
Sulfur	34-1	5170.58	5386.90	5242.70	5266.73	2.09	ppb
Terbium	159-1				105		%
Terbium	159-2				98		%
Thallium	203-1	0.22	0.21	0.22	0.22	0.98	ppb
Thallium	205-1	0.22	0.21	0.22	0.21	1.11	ppb
Tin	118-1	0.49	0.49	0.44	0.48	5.95	ppb
Titanium	47-1	197.31	198.96	197.52	197.93	0.46	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-03

Instrumnet Name :

P7

Client Sample ID :

ME28P1

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:49:28

DataFile Name :

063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.45	2.46	2.42	2.44	0.82	ppb
Vanadium	51-2	44.82	39.78	39.25	41.28	7.46	ppb
Yttrium	89-1				106		%
Yttrium	89-2				97		%
Zinc	66-2	106.55	94.32	92.92	97.93	7.65	ppb
Zirconium	90-1	5.10	5.04	5.16	5.10	1.20	ppb
Zirconium	91-1	5.14	5.18	5.22	5.18	0.76	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-04

Instrumnet Name :

P7

Client Sample ID :

ME28P2

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:52:35

DataFile Name :

064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13986.56	13824.93	13773.12	13861.54	0.80	ppb
Antimony	121-1	0.20	0.20	0.21	0.20	2.24	ppb
Arsenic	75-2	14.19	13.99	13.95	14.04	0.92	ppb
Barium	135-1	194.11	196.03	199.29	196.48	1.33	ppb
Barium	137-1	199.05	200.12	201.67	200.28	0.66	ppb
Beryllium	9-1	0.94	0.94	0.87	0.92	4.44	ppb
Bismuth	209-1				107		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.85	1.02	0.96	0.94	8.79	ppb
Cadmium	106-1	0.63	0.20	0.26	0.36	64.37	ppb
Cadmium	111-1	0.64	0.58	0.58	0.60	6.23	ppb
Calcium	43-1	161083.46	161177.31	158607.17	160289.32	0.91	ppb
Calcium	44-1	160877.29	161280.44	158777.92	160311.89	0.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	32.52	32.06	32.24	32.27	0.71	ppb
Cobalt	59-2	17.09	16.96	16.80	16.95	0.87	ppb
Copper	63-2	32.58	32.70	32.14	32.47	0.90	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				94		%
Iron	56-2	36934.64	36061.46	36151.29	36382.46	1.32	ppb
Iron	57-2	37310.19	36923.18	36809.45	37014.27	0.71	ppb
Iron	54-2	37316.17	36427.10	35953.81	36565.69	1.89	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-04 Instrumnet Name : P7
Client Sample ID : ME28P2 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:52:35 DataFile Name : 064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	29.10	28.95	28.95	29.00	0.31	ppb
Lead	207-1	26.46	26.70	26.55	26.57	0.46	ppb
Lead	208-1	27.27	27.48	27.28	27.34	0.44	ppb
Lithium	6-1				107		%
Magnesium	24-2	46173.52	46029.18	45821.16	46007.95	0.39	ppb
Manganese	55-2	962.39	950.37	955.93	956.23	0.63	ppb
Molybdenum	94-1	8.26	8.49	8.27	8.34	1.55	ppb
Molybdenum	95-1	5.15	5.14	5.33	5.21	2.11	ppb
Molybdenum	96-1	5.77	5.83	5.81	5.80	0.54	ppb
Molybdenum	97-1	5.35	5.27	5.32	5.31	0.72	ppb
Molybdenum	98-1	5.22	5.20	5.24	5.22	0.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	41.74	41.21	41.28	41.41	0.69	ppb
Phosphorus	31-2	675.46	691.59	698.35	688.47	1.71	ppb
Potassium	39-2	1437.63	1422.95	1421.86	1427.48	0.62	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				100		%
Scandium	45-2				94		%
Selenium	82-1	0.60	0.57	0.47	0.55	12.02	ppb
Selenium	77-2	7.77	6.82	6.27	6.95	10.89	ppb
Selenium	78-2	1.67	1.23	0.41	1.10	57.92	ppb
Silicon	28-1	2985.01	2988.71	2949.69	2974.47	0.72	ppb
Silver	107-1	0.09	0.10	0.10	0.09	5.35	ppb
Silver	109-1	0.09	0.11	0.09	0.10	8.46	ppb
Sodium	23-2	231.54	228.47	231.35	230.45	0.75	ppb
Strontium	86-1	12704.06	12756.92	12668.17	12709.72	0.35	ppb
Strontium	88-1	12612.20	12579.78	12686.72	12626.24	0.43	ppb
Sulfur	34-1	1140.46	1181.21	1172.60	1164.76	1.84	ppb
Terbium	159-1				105		%
Terbium	159-2				101		%
Thallium	203-1	0.32	0.34	0.34	0.33	4.11	ppb
Thallium	205-1	0.32	0.33	0.32	0.32	1.61	ppb
Tin	118-1	0.58	0.60	0.57	0.58	2.65	ppb
Titanium	47-1	92.37	91.90	90.81	91.69	0.87	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-04

Instrumnet Name :

P7

Client Sample ID :

ME28P2

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:52:35

DataFile Name :

064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.97	2.01	2.01	2.00	0.93	ppb
Vanadium	51-2	39.08	38.84	38.46	38.79	0.80	ppb
Yttrium	89-1				107		%
Yttrium	89-2				101		%
Zinc	66-2	129.98	129.90	130.09	129.99	0.07	ppb
Zirconium	90-1	2.14	2.16	2.15	2.15	0.28	ppb
Zirconium	91-1	2.14	2.16	2.20	2.16	1.45	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-05

Instrumnet Name :

P7

Client Sample ID :

ME28P3

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:55:46

DataFile Name :

065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11349.89	11358.54	11321.24	11343.23	0.17	ppb
Antimony	121-1	1.64	1.65	1.68	1.66	1.28	ppb
Arsenic	75-2	86.35	87.96	86.50	86.93	1.02	ppb
Barium	135-1	744.73	749.48	730.35	741.52	1.34	ppb
Barium	137-1	752.01	752.74	746.66	750.47	0.44	ppb
Beryllium	9-1	1.16	1.22	1.13	1.17	3.81	ppb
Bismuth	209-1				109		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	5.84	6.38	6.27	6.16	4.64	ppb
Cadmium	106-1	7.10	5.68	5.72	6.17	13.09	ppb
Cadmium	111-1	5.61	5.53	5.67	5.60	1.26	ppb
Calcium	43-1	163457.99	162670.73	164359.28	163496.00	0.52	ppb
Calcium	44-1	160790.72	162630.79	163263.74	162228.42	0.79	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	44.67	44.69	44.64	44.66	0.06	ppb
Cobalt	59-2	9.89	9.78	9.76	9.81	0.71	ppb
Copper	63-2	89.06	89.41	88.42	88.96	0.57	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	56-2	51679.91	51821.79	52096.16	51865.95	0.41	ppb
Iron	57-2	52571.98	52156.37	52390.40	52372.92	0.40	ppb
Iron	54-2	51761.84	52008.96	51871.59	51880.79	0.24	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-05 Instrumnet Name : P7
Client Sample ID : ME28P3 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:55:46 DataFile Name : 065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1310.37	1321.02	1315.42	1315.60	0.40	ppb
Lead	207-1	1205.13	1211.09	1228.99	1215.07	1.02	ppb
Lead	208-1	1241.59	1250.29	1255.18	1249.02	0.55	ppb
Lithium	6-1				106		%
Magnesium	24-2	19291.53	19327.52	19057.38	19225.48	0.76	ppb
Manganese	55-2	573.91	569.78	579.12	574.27	0.82	ppb
Molybdenum	94-1	22.69	22.98	22.64	22.77	0.81	ppb
Molybdenum	95-1	5.72	5.72	5.78	5.74	0.62	ppb
Molybdenum	96-1	7.96	7.92	7.88	7.92	0.50	ppb
Molybdenum	97-1	5.77	5.92	5.73	5.81	1.72	ppb
Molybdenum	98-1	5.79	5.87	5.78	5.81	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	36.43	36.70	36.25	36.46	0.62	ppb
Phosphorus	31-2	566.39	581.28	556.36	568.01	2.21	ppb
Potassium	39-2	1586.45	1584.01	1581.01	1583.82	0.17	ppb
Rhodium	103-1				97		%
Rhodium	103-2				94		%
Scandium	45-1				99		%
Scandium	45-2				95		%
Selenium	82-1	6.51	5.99	5.73	6.08	6.52	ppb
Selenium	77-2	12.39	8.67	11.80	10.96	18.25	ppb
Selenium	78-2	5.15	5.76	5.28	5.40	5.96	ppb
Silicon	28-1	3017.58	3011.35	3067.16	3032.03	1.01	ppb
Silver	107-1	0.14	0.15	0.14	0.14	4.40	ppb
Silver	109-1	0.12	0.14	0.13	0.13	5.96	ppb
Sodium	23-2	464.48	464.20	465.23	464.64	0.11	ppb
Strontium	86-1	15268.95	15363.20	15254.05	15295.40	0.39	ppb
Strontium	88-1	15091.90	15338.55	15221.87	15217.44	0.81	ppb
Sulfur	34-1	2830.57	2786.91	2907.08	2841.52	2.14	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	0.71	0.68	0.73	0.71	2.96	ppb
Thallium	205-1	0.70	0.71	0.73	0.72	2.35	ppb
Tin	118-1	6.43	6.45	6.40	6.43	0.37	ppb
Titanium	47-1	455.59	457.70	463.36	458.88	0.88	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-05

Instrumnet Name :

P7

Client Sample ID :

ME28P3

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:55:46

DataFile Name :

065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.99	2.01	2.01	2.00	0.64	ppb
Vanadium	51-2	41.33	41.85	41.01	41.40	1.02	ppb
Yttrium	89-1				104		%
Yttrium	89-2				98		%
Zinc	66-2	1208.09	1217.50	1212.82	1212.80	0.39	ppb
Zirconium	90-1	9.94	9.99	9.95	9.96	0.24	ppb
Zirconium	91-1	10.13	10.06	10.17	10.12	0.55	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-06 Instrumnet Name : P7
Client Sample ID : ME28P4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:58:50 DataFile Name : 066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13024.78	13027.09	13136.00	13062.62	0.49	ppb
Antimony	121-1	0.38	0.38	0.35	0.37	3.60	ppb
Arsenic	75-2	10.42	10.62	10.53	10.52	0.97	ppb
Barium	135-1	139.59	139.73	140.13	139.81	0.20	ppb
Barium	137-1	140.88	143.39	142.70	142.32	0.91	ppb
Beryllium	9-1	1.18	1.14	1.19	1.17	2.11	ppb
Bismuth	209-1				105		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.42	1.22	1.64	1.43	14.71	ppb
Cadmium	106-1	1.30	0.68	0.93	0.97	32.01	ppb
Cadmium	111-1	0.51	0.47	0.50	0.49	4.83	ppb
Calcium	43-1	240216.51	238786.95	239014.45	239339.30	0.32	ppb
Calcium	44-1	239260.92	239475.45	239273.21	239336.53	0.05	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29.99	30.20	30.75	30.31	1.30	ppb
Cobalt	59-2	11.78	12.05	12.18	12.00	1.67	ppb
Copper	63-2	36.11	36.21	36.33	36.22	0.31	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				102		%
Indium	115-1				98		%
Indium	115-2				92		%
Iron	56-2	31258.88	31261.32	31772.86	31431.02	0.94	ppb
Iron	57-2	31949.19	32319.09	32470.89	32246.39	0.83	ppb
Iron	54-2	31248.80	31591.27	31820.56	31553.55	0.91	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-06 Instrumnet Name : P7
Client Sample ID : ME28P4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:58:50 DataFile Name : 066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	31.97	31.94	31.83	31.91	0.24	ppb
Lead	207-1	29.43	28.77	28.60	28.93	1.52	ppb
Lead	208-1	30.24	29.73	29.58	29.85	1.15	ppb
Lithium	6-1				105		%
Magnesium	24-2	53896.20	54000.37	54332.28	54076.28	0.42	ppb
Manganese	55-2	993.76	999.39	1004.92	999.36	0.56	ppb
Molybdenum	94-1	21.72	21.72	21.94	21.79	0.58	ppb
Molybdenum	95-1	5.84	5.69	5.69	5.74	1.48	ppb
Molybdenum	96-1	7.74	7.72	7.63	7.70	0.81	ppb
Molybdenum	97-1	5.85	5.84	5.83	5.84	0.12	ppb
Molybdenum	98-1	5.80	5.83	5.75	5.79	0.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	34.03	34.68	34.70	34.47	1.10	ppb
Phosphorus	31-2	674.55	706.21	688.26	689.67	2.30	ppb
Potassium	39-2	2285.99	2260.80	2247.14	2264.64	0.87	ppb
Rhodium	103-1				95		%
Rhodium	103-2				91		%
Scandium	45-1				99		%
Scandium	45-2				91		%
Selenium	82-1	1.38	0.58	0.52	0.82	58.36	ppb
Selenium	77-2	7.69	9.22	7.02	7.97	14.13	ppb
Selenium	78-2	0.58	0.31	1.03	0.64	56.83	ppb
Silicon	28-1	9070.11	9179.66	9103.64	9117.80	0.62	ppb
Silver	107-1	0.09	0.11	0.10	0.10	6.81	ppb
Silver	109-1	0.09	0.08	0.08	0.08	1.61	ppb
Sodium	23-2	756.18	761.70	761.42	759.77	0.41	ppb
Strontium	86-1	24897.10	25143.79	25540.93	25193.94	1.29	ppb
Strontium	88-1	24911.21	25006.40	25470.44	25129.35	1.19	ppb
Sulfur	34-1	2980.04	2967.45	2982.21	2976.57	0.27	ppb
Terbium	159-1				105		%
Terbium	159-2				99		%
Thallium	203-1	0.31	0.31	0.32	0.31	2.70	ppb
Thallium	205-1	0.33	0.31	0.32	0.32	2.92	ppb
Tin	118-1	7.00	7.03	7.05	7.03	0.38	ppb
Titanium	47-1	289.73	291.43	289.89	290.35	0.32	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-06

Instrumnet Name :

P7

Client Sample ID :

ME28P4

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:58:50

DataFile Name :

066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.24	2.21	2.21	2.22	0.82	ppb
Vanadium	51-2	28.13	28.15	27.85	28.04	0.59	ppb
Yttrium	89-1				105		%
Yttrium	89-2				98		%
Zinc	66-2	169.88	171.44	169.38	170.23	0.63	ppb
Zirconium	90-1	9.35	9.30	9.43	9.36	0.73	ppb
Zirconium	91-1	9.32	9.25	9.48	9.35	1.29	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-07 Instrumnet Name : P7
Client Sample ID : ME28P5 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:02:02 DataFile Name : 067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20035.54	20154.80	19923.45	20037.93	0.58	ppb
Antimony	121-1	0.18	0.18	0.19	0.18	1.63	ppb
Arsenic	75-2	20.37	19.70	20.13	20.07	1.69	ppb
Barium	135-1	153.61	165.22	162.11	160.31	3.75	ppb
Barium	137-1	155.92	167.80	165.86	163.19	3.91	ppb
Beryllium	9-1	1.57	1.73	1.62	1.64	4.99	ppb
Bismuth	209-1				112		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.86	1.24	1.18	1.10	18.52	ppb
Cadmium	106-1	0.44	0.33	0.02	0.26	82.49	ppb
Cadmium	111-1	0.65	0.67	0.61	0.64	5.43	ppb
Calcium	43-1	10041.90	10588.73	10465.55	10365.39	2.77	ppb
Calcium	44-1	9529.48	10113.49	9931.66	9858.21	3.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	39.41	39.61	39.74	39.59	0.42	ppb
Cobalt	59-2	28.62	29.12	29.02	28.92	0.91	ppb
Copper	63-2	40.57	41.04	40.95	40.85	0.62	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				104		%
Indium	115-1				103		%
Indium	115-2				98		%
Iron	56-2	54082.38	54745.67	54765.55	54531.20	0.71	ppb
Iron	57-2	52658.46	53579.77	53912.45	53383.56	1.22	ppb
Iron	54-2	54018.24	54713.76	54927.32	54553.11	0.87	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-07 Instrumnet Name : P7
Client Sample ID : ME28P5 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:02:02 DataFile Name : 067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	40.00	42.00	41.03	41.01	2.43	ppb
Lead	207-1	35.96	37.91	37.23	37.03	2.67	ppb
Lead	208-1	37.36	39.60	38.58	38.51	2.91	ppb
Lithium	6-1				107		%
Magnesium	24-2	6945.22	7044.66	6954.15	6981.34	0.79	ppb
Manganese	55-2	2065.04	2088.56	2073.44	2075.68	0.57	ppb
Molybdenum	94-1	10.70	11.55	11.44	11.23	4.11	ppb
Molybdenum	95-1	6.44	6.87	6.93	6.75	4.00	ppb
Molybdenum	96-1	7.19	7.69	7.64	7.51	3.67	ppb
Molybdenum	97-1	6.52	6.92	6.84	6.76	3.16	ppb
Molybdenum	98-1	6.52	6.87	6.80	6.73	2.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	47.00	47.65	47.38	47.34	0.68	ppb
Phosphorus	31-2	528.17	525.28	516.93	523.46	1.11	ppb
Potassium	39-2	1609.68	1625.73	1620.70	1618.70	0.51	ppb
Rhodium	103-1				102		%
Rhodium	103-2				98		%
Scandium	45-1				102		%
Scandium	45-2				96		%
Selenium	82-1	0.90	1.07	0.69	0.88	21.52	ppb
Selenium	77-2	8.93	9.37	11.51	9.94	13.87	ppb
Selenium	78-2	1.26	1.19	0.57	1.00	37.87	ppb
Silicon	28-1	2751.04	2891.74	2864.66	2835.82	2.63	ppb
Silver	107-1	0.12	0.13	0.12	0.12	2.90	ppb
Silver	109-1	0.12	0.12	0.13	0.12	5.56	ppb
Sodium	23-2	341.98	347.49	349.23	346.23	1.09	ppb
Strontium	86-1	3805.85	4061.54	4009.81	3959.07	3.41	ppb
Strontium	88-1	4006.01	4180.94	4121.58	4102.84	2.17	ppb
Sulfur	34-1	-105.32	27.23	-202.38	-93.49		ppb
Terbium	159-1				108		%
Terbium	159-2				103		%
Thallium	203-1	0.37	0.37	0.34	0.36	3.91	ppb
Thallium	205-1	0.35	0.38	0.36	0.36	4.24	ppb
Tin	118-1	0.66	0.76	0.73	0.71	7.29	ppb
Titanium	47-1	102.29	108.68	108.42	106.46	3.40	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-07

Instrumnet Name :

P7

Client Sample ID :

ME28P5

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:02:02

DataFile Name :

067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.26	2.40	2.30	2.32	3.06	ppb
Vanadium	51-2	55.02	56.48	55.73	55.74	1.32	ppb
Yttrium	89-1				110		%
Yttrium	89-2				103		%
Zinc	66-2	128.19	129.71	128.97	128.96	0.59	ppb
Zirconium	90-1	2.99	3.20	3.18	3.12	3.61	ppb
Zirconium	91-1	2.98	3.22	3.11	3.10	3.83	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-08 Instrumnet Name : P7
Client Sample ID : ME28P6 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:05:12 DataFile Name : 068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12425.78	12792.16	12532.12	12583.35	1.50	ppb
Antimony	121-1	0.26	0.25	0.25	0.26	1.07	ppb
Arsenic	75-2	13.24	13.95	13.03	13.41	3.60	ppb
Barium	135-1	134.68	133.85	134.61	134.38	0.34	ppb
Barium	137-1	137.45	136.32	136.77	136.85	0.42	ppb
Beryllium	9-1	0.72	0.71	0.70	0.71	1.03	ppb
Bismuth	209-1				108		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.90	0.78	0.76	0.82	9.53	ppb
Cadmium	106-1	0.49	0.24	0.15	0.29	59.66	ppb
Cadmium	111-1	0.32	0.31	0.30	0.31	3.65	ppb
Calcium	43-1	229839.30	230408.74	230641.80	230296.61	0.18	ppb
Calcium	44-1	229877.04	228078.31	228186.99	228714.11	0.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	25.81	25.88	26.08	25.92	0.52	ppb
Cobalt	59-2	16.01	16.09	16.12	16.08	0.36	ppb
Copper	63-2	37.82	38.40	38.41	38.21	0.88	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				93		%
Iron	56-2	37397.36	38124.38	37494.19	37671.98	1.05	ppb
Iron	57-2	37878.43	38382.82	38270.97	38177.40	0.69	ppb
Iron	54-2	37670.55	38346.10	37712.02	37909.56	1.00	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-08 Instrumnet Name : P7
Client Sample ID : ME28P6 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:05:12 DataFile Name : 068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	18.61	18.72	18.45	18.59	0.72	ppb
Lead	207-1	16.62	16.87	16.55	16.68	0.99	ppb
Lead	208-1	17.44	17.38	17.26	17.36	0.53	ppb
Lithium	6-1				107		%
Magnesium	24-2	29210.80	29769.98	29422.86	29467.88	0.96	ppb
Manganese	55-2	932.48	946.55	935.44	938.16	0.79	ppb
Molybdenum	94-1	16.48	16.30	16.32	16.37	0.62	ppb
Molybdenum	95-1	9.20	9.30	9.36	9.28	0.85	ppb
Molybdenum	96-1	10.39	10.41	10.26	10.35	0.83	ppb
Molybdenum	97-1	9.33	9.44	9.20	9.33	1.28	ppb
Molybdenum	98-1	9.46	9.42	9.47	9.45	0.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	43.25	43.52	43.06	43.28	0.54	ppb
Phosphorus	31-2	941.30	986.28	951.63	959.74	2.45	ppb
Potassium	39-2	1892.11	1918.59	1893.75	1901.48	0.78	ppb
Rhodium	103-1				96		%
Rhodium	103-2				93		%
Scandium	45-1				99		%
Scandium	45-2				92		%
Selenium	82-1	0.74	0.23	0.47	0.48	52.93	ppb
Selenium	77-2	11.43	9.88	9.60	10.30	9.55	ppb
Selenium	78-2	-0.07	-0.32	1.21	0.27	301.92	ppb
Silicon	28-1	2296.18	2256.07	2237.87	2263.37	1.32	ppb
Silver	107-1	0.07	0.07	0.07	0.07	7.26	ppb
Silver	109-1	0.06	0.06	0.07	0.06	1.97	ppb
Sodium	23-2	409.93	418.15	414.60	414.23	1.00	ppb
Strontium	86-1	8476.30	8533.68	8443.63	8484.54	0.54	ppb
Strontium	88-1	8322.03	8469.06	8475.45	8422.18	1.03	ppb
Sulfur	34-1	246.05	204.64	234.72	228.47	9.37	ppb
Terbium	159-1				105		%
Terbium	159-2				99		%
Thallium	203-1	0.38	0.39	0.36	0.38	3.69	ppb
Thallium	205-1	0.37	0.37	0.37	0.37	0.83	ppb
Tin	118-1	0.53	0.52	0.51	0.52	1.96	ppb
Titanium	47-1	222.60	221.97	221.45	222.01	0.26	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-08

Instrumnet Name :

P7

Client Sample ID :

ME28P6

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:05:12

DataFile Name :

068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.90	1.87	1.84	1.87	1.46	ppb
Vanadium	51-2	32.48	32.79	32.38	32.55	0.66	ppb
Yttrium	89-1				106		%
Yttrium	89-2				98		%
Zinc	66-2	106.30	107.87	107.94	107.37	0.86	ppb
Zirconium	90-1	4.85	4.87	4.83	4.85	0.38	ppb
Zirconium	91-1	4.84	4.77	4.87	4.83	1.04	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5154-09Instrumnet Name :P7

Client Sample ID :ME28P7Dilution Factor :1

Date & Time Acquired :2024-12-23 15:08:25DataFile Name :069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1442.00	1451.78	1417.37	1437.05	1.23	ppb
Antimony	121-1	0.17	0.17	0.17	0.17	1.58	ppb
Arsenic	75-2	2.41	2.85	2.56	2.61	8.66	ppb
Barium	135-1	43.25	44.51	44.27	44.01	1.52	ppb
Barium	137-1	43.97	44.50	44.89	44.45	1.03	ppb
Beryllium	9-1	0.10	0.16	0.11	0.12	24.38	ppb
Bismuth	209-1				103		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.33	0.33	0.42	0.36	14.68	ppb
Cadmium	106-1	0.47	-0.04	0.57	0.33	98.41	ppb
Cadmium	111-1	0.14	0.12	0.15	0.14	12.63	ppb
Calcium	43-1	453954.66	460088.43	456743.35	456928.82	0.67	ppb
Calcium	44-1	449798.43	459419.95	461496.92	456905.10	1.37	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.38	9.53	9.37	9.43	0.95	ppb
Cobalt	59-2	2.05	2.13	2.08	2.09	1.99	ppb
Copper	63-2	5.21	5.29	5.27	5.26	0.86	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				103		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	56-2	4879.53	4885.52	4804.44	4856.50	0.93	ppb
Iron	57-2	6890.86	7034.90	6968.96	6964.91	1.04	ppb
Iron	54-2	4950.07	4951.77	4869.87	4923.90	0.95	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-09 Instrumnet Name : P7
Client Sample ID : ME28P7 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:08:25 DataFile Name : 069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5.36	5.32	5.30	5.33	0.57	ppb
Lead	207-1	4.22	4.22	4.20	4.21	0.36	ppb
Lead	208-1	4.48	4.49	4.53	4.50	0.55	ppb
Lithium	6-1				102		%
Magnesium	24-2	233908.65	236967.66	231949.87	234275.39	1.08	ppb
Manganese	55-2	182.87	186.09	181.88	183.61	1.20	ppb
Molybdenum	94-1	6.46	6.53	6.53	6.51	0.56	ppb
Molybdenum	95-1	1.82	1.87	1.90	1.86	2.38	ppb
Molybdenum	96-1	2.32	2.44	2.43	2.40	2.70	ppb
Molybdenum	97-1	1.83	1.81	1.95	1.86	4.04	ppb
Molybdenum	98-1	1.91	1.91	1.86	1.89	1.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.05	10.22	9.87	10.05	1.71	ppb
Phosphorus	31-2	110.11	108.83	112.65	110.53	1.76	ppb
Potassium	39-2	414.60	426.27	417.02	419.30	1.47	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	0.67	0.79	0.58	0.68	15.32	ppb
Selenium	77-2	1.38	1.90	1.70	1.66	15.72	ppb
Selenium	78-2	0.08	0.20	0.14	0.14	43.74	ppb
Silicon	28-1	745.71	761.03	754.71	753.82	1.02	ppb
Silver	107-1	0.03	0.05	0.05	0.04	21.08	ppb
Silver	109-1	0.03	0.04	0.05	0.04	29.29	ppb
Sodium	23-2	541.25	541.80	536.40	539.82	0.55	ppb
Strontium	86-1	10635.36	10776.06	10514.31	10641.91	1.23	ppb
Strontium	88-1	10584.22	10770.72	10554.92	10636.62	1.10	ppb
Sulfur	34-1	2340.07	2517.89	2536.04	2464.67	4.39	ppb
Terbium	159-1				107		%
Terbium	159-2				102		%
Thallium	203-1	0.10	0.11	0.12	0.11	6.75	ppb
Thallium	205-1	0.10	0.10	0.11	0.10	6.28	ppb
Tin	118-1	0.18	0.17	0.18	0.18	3.42	ppb
Titanium	47-1	37.58	38.51	38.27	38.12	1.28	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-09

Instrumnet Name :

P7

Client Sample ID :

ME28P7

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:08:25

DataFile Name :

069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	3.63	3.65	3.65	3.64	0.29	ppb
Vanadium	51-2	10.62	10.64	10.53	10.60	0.58	ppb
Yttrium	89-1				106		%
Yttrium	89-2				101		%
Zinc	66-2	20.36	20.57	19.87	20.27	1.76	ppb
Zirconium	90-1	2.72	2.71	2.74	2.72	0.57	ppb
Zirconium	91-1	2.73	2.85	2.67	2.75	3.29	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-10

Instrumnet Name :

P7

Client Sample ID :

ME28P8

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:11:38

DataFile Name :

070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13979.25	13892.87	13791.04	13887.72	0.68	ppb
Antimony	121-1	2.96	2.95	2.95	2.95	0.17	ppb
Arsenic	75-2	25.97	25.07	25.03	25.36	2.10	ppb
Barium	135-1	277.06	276.89	275.06	276.34	0.40	ppb
Barium	137-1	295.99	293.27	293.23	294.16	0.54	ppb
Beryllium	9-1	1.42	1.29	1.30	1.33	5.56	ppb
Bismuth	209-1				112		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.92	2.73	2.97	2.87	4.44	ppb
Cadmium	106-1	2.53	2.75	2.10	2.46	13.56	ppb
Cadmium	111-1	2.25	2.14	2.21	2.20	2.45	ppb
Calcium	43-1	70937.79	72406.42	72063.00	71802.41	1.07	ppb
Calcium	44-1	70622.37	71891.20	71834.51	71449.36	1.00	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	398.65	396.27	399.99	398.30	0.47	ppb
Cobalt	59-2	15.71	15.72	15.71	15.71	0.03	ppb
Copper	63-2	644.75	645.48	640.73	643.65	0.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				92		%
Iron	56-2	74268.81	73795.85	73675.95	73913.54	0.42	ppb
Iron	57-2	73202.85	72469.83	72975.09	72882.59	0.51	ppb
Iron	54-2	74095.94	73981.64	74164.74	74080.77	0.12	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-10 Instrumnet Name : P7
Client Sample ID : ME28P8 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:11:38 DataFile Name : 070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	373.35	379.66	373.18	375.40	0.98	ppb
Lead	207-1	368.67	373.12	371.58	371.12	0.61	ppb
Lead	208-1	366.02	374.80	371.77	370.86	1.20	ppb
Lithium	6-1				111		%
Magnesium	24-2	13451.43	13529.48	13308.84	13429.91	0.83	ppb
Manganese	55-2	1045.96	1045.76	1053.48	1048.40	0.42	ppb
Molybdenum	94-1	38.97	39.54	40.40	39.64	1.82	ppb
Molybdenum	95-1	41.30	42.19	43.19	42.23	2.24	ppb
Molybdenum	96-1	42.18	42.76	43.08	42.68	1.07	ppb
Molybdenum	97-1	42.10	42.80	43.33	42.74	1.44	ppb
Molybdenum	98-1	42.07	42.74	43.90	42.90	2.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	238.39	238.54	237.88	238.27	0.14	ppb
Phosphorus	31-2	1145.65	1091.00	1115.79	1117.48	2.45	ppb
Potassium	39-2	3539.47	3561.22	3556.64	3552.44	0.32	ppb
Rhodium	103-1				98		%
Rhodium	103-2				93		%
Scandium	45-1				99		%
Scandium	45-2				89		%
Selenium	82-1	0.07	-0.16	0.59	0.17	232.55	ppb
Selenium	77-2	9.92	8.83	7.12	8.62	16.38	ppb
Selenium	78-2	-0.44	-0.04	0.95	0.16	458.86	ppb
Silicon	28-1	3751.25	3857.15	3833.51	3813.97	1.46	ppb
Silver	107-1	0.95	0.96	0.93	0.95	1.55	ppb
Silver	109-1	0.96	0.95	0.94	0.95	0.90	ppb
Sodium	23-2	760.70	753.90	755.36	756.65	0.47	ppb
Strontium	86-1	7105.69	7197.10	7446.59	7249.79	2.43	ppb
Strontium	88-1	7399.94	7450.33	7626.04	7492.10	1.58	ppb
Sulfur	34-1	2394.56	2526.13	2518.26	2479.65	2.98	ppb
Terbium	159-1				106		%
Terbium	159-2				100		%
Thallium	203-1	0.18	0.20	0.20	0.19	6.56	ppb
Thallium	205-1	0.20	0.20	0.20	0.20	1.06	ppb
Tin	118-1	73.57	73.92	73.91	73.80	0.27	ppb
Titanium	47-1	384.09	393.52	391.15	389.59	1.26	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-10

Instrumnet Name :

P7

Client Sample ID :

ME28P8

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:11:38

DataFile Name :

070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.59	1.62	1.59	1.60	1.07	ppb
Vanadium	51-2	48.46	48.63	48.16	48.41	0.49	ppb
Yttrium	89-1				106		%
Yttrium	89-2				98		%
Zinc	66-2	1030.11	1037.52	1032.07	1033.23	0.37	ppb
Zirconium	90-1	2.52	2.56	2.68	2.59	3.31	ppb
Zirconium	91-1	2.55	2.64	2.67	2.62	2.42	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-11 Instrumnet Name : P7
Client Sample ID : ME28P9 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:14:41 DataFile Name : 071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	23094.50	23330.02	23281.16	23235.23	0.53	ppb
Antimony	121-1	6.71	4.13	4.07	4.97	30.36	ppb
Arsenic	75-2	28.48	28.78	29.19	28.82	1.23	ppb
Barium	135-1	565.64	348.74	342.58	418.99	30.32	ppb
Barium	137-1	612.61	370.51	360.37	447.83	31.89	ppb
Beryllium	9-1	2.38	1.47	1.45	1.76	29.95	ppb
Bismuth	209-1				95		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	5.36	2.62	3.14	3.71	39.24	ppb
Cadmium	106-1	5.17	3.15	2.49	3.60	38.70	ppb
Cadmium	111-1	3.38	2.12	2.05	2.52	29.78	ppb
Calcium	43-1	90704.96	57923.15	55899.55	68175.89	28.66	ppb
Calcium	44-1	89556.34	57156.89	55204.50	67305.91	28.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	470.75	472.05	473.51	472.10	0.29	ppb
Cobalt	59-2	39.87	39.79	39.61	39.75	0.34	ppb
Copper	63-2	669.00	660.80	665.59	665.13	0.62	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				103		%
Indium	115-1				88		%
Indium	115-2				96		%
Iron	56-2	328166.29	329143.30	327925.76	328411.78	0.20	ppb
Iron	57-2	325990.13	328874.55	329234.02	328032.90	0.54	ppb
Iron	54-2	329433.20	329760.83	329703.52	329632.52	0.05	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-11 Instrumnet Name : P7
Client Sample ID : ME28P9 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:14:41 DataFile Name : 071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	497.60	307.82	302.11	369.18	30.14	ppb
Lead	207-1	491.42	296.11	300.86	362.80	30.71	ppb
Lead	208-1	492.12	300.94	297.51	363.53	30.64	ppb
Lithium	6-1				92		%
Magnesium	24-2	13493.31	13396.24	13578.19	13489.25	0.67	ppb
Manganese	55-2	2035.75	2044.91	2031.47	2037.38	0.34	ppb
Molybdenum	94-1	72.38	46.82	45.36	54.85	27.71	ppb
Molybdenum	95-1	57.90	37.16	36.37	43.81	27.87	ppb
Molybdenum	96-1	63.50	40.77	39.73	48.00	27.99	ppb
Molybdenum	97-1	58.10	37.51	36.53	44.05	27.66	ppb
Molybdenum	98-1	58.11	37.41	36.32	43.94	27.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	335.45	334.00	333.97	334.47	0.25	ppb
Phosphorus	31-2	751.74	757.19	769.25	759.39	1.18	ppb
Potassium	39-2	3058.13	3082.67	3115.87	3085.56	0.94	ppb
Rhodium	103-1				86		%
Rhodium	103-2				97		%
Scandium	45-1				88		%
Scandium	45-2				96		%
Selenium	82-1	0.92	0.34	0.40	0.55	57.32	ppb
Selenium	77-2	5.17	5.68	6.48	5.78	11.44	ppb
Selenium	78-2	0.26	-0.51	0.24	0.00		ppb
Silicon	28-1	6996.10	4435.78	4304.18	5245.35	28.93	ppb
Silver	107-1	1.01	0.63	0.62	0.75	29.14	ppb
Silver	109-1	1.03	0.63	0.61	0.76	31.34	ppb
Sodium	23-2	550.45	550.19	549.82	550.15	0.06	ppb
Strontium	86-1	5967.17	3824.25	3715.59	4502.34	28.20	ppb
Strontium	88-1	6148.61	3960.93	3793.95	4634.50	28.35	ppb
Sulfur	34-1	4343.57	1218.89	1063.66	2208.71	83.78	ppb
Terbium	159-1				93		%
Terbium	159-2				102		%
Thallium	203-1	0.16	0.10	0.10	0.12	28.63	ppb
Thallium	205-1	0.18	0.10	0.10	0.12	35.05	ppb
Tin	118-1	106.82	66.35	65.15	79.44	29.86	ppb
Titanium	47-1	2102.03	1350.12	1291.11	1581.09	28.60	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-11

Instrumnet Name :

P7

Client Sample ID :

ME28P9

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:14:41

DataFile Name :

071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.70	1.70	1.63	2.01	29.83	ppb
Vanadium	51-2	61.15	61.39	61.33	61.29	0.21	ppb
Yttrium	89-1				95		%
Yttrium	89-2				102		%
Zinc	66-2	453.26	454.16	450.47	452.63	0.42	ppb
Zirconium	90-1	13.33	8.58	8.31	10.07	28.03	ppb
Zirconium	91-1	13.28	8.77	8.43	10.16	26.65	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-12 Instrumnet Name : P7
Client Sample ID : ME28Q0 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:17:42 DataFile Name : 072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17838.61	17562.67	17622.29	17674.52	0.82	ppb
Antimony	121-1	2.04	2.00	2.03	2.02	1.00	ppb
Arsenic	75-2	17.76	17.31	17.33	17.47	1.47	ppb
Barium	135-1	707.52	715.46	698.47	707.15	1.20	ppb
Barium	137-1	719.25	701.11	705.07	708.47	1.35	ppb
Beryllium	9-1	1.96	2.07	2.07	2.03	3.13	ppb
Bismuth	209-1				110		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	5.11	4.29	4.87	4.76	8.83	ppb
Cadmium	106-1	5.69	4.53	4.13	4.79	16.93	ppb
Cadmium	111-1	4.31	4.29	4.10	4.23	2.68	ppb
Calcium	43-1	79762.52	79094.33	79212.55	79356.47	0.45	ppb
Calcium	44-1	78405.46	78017.79	78966.51	78463.25	0.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	182.24	181.85	181.25	181.78	0.28	ppb
Cobalt	59-2	16.33	16.71	16.37	16.47	1.25	ppb
Copper	63-2	445.86	439.85	440.95	442.22	0.72	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				93		%
Iron	56-2	54996.79	55058.25	55044.16	55033.07	0.06	ppb
Iron	57-2	55372.66	55250.39	54363.03	54995.36	1.00	ppb
Iron	54-2	55467.97	54672.48	55269.54	55136.66	0.75	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-12 Instrumnet Name : P7
Client Sample ID : ME28Q0 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:17:42 DataFile Name : 072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	968.53	965.26	986.42	973.40	1.17	ppb
Lead	207-1	936.62	917.52	945.74	933.29	1.54	ppb
Lead	208-1	939.40	933.45	953.76	942.20	1.11	ppb
Lithium	6-1				106		%
Magnesium	24-2	20120.48	20071.23	19970.59	20054.10	0.38	ppb
Manganese	55-2	2162.86	2126.68	2153.57	2147.70	0.88	ppb
Molybdenum	94-1	23.33	22.99	23.64	23.32	1.40	ppb
Molybdenum	95-1	16.37	16.14	16.56	16.35	1.28	ppb
Molybdenum	96-1	17.42	17.42	17.52	17.45	0.35	ppb
Molybdenum	97-1	16.42	16.32	16.48	16.41	0.51	ppb
Molybdenum	98-1	16.39	16.16	16.46	16.34	0.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	273.83	273.90	273.63	273.79	0.05	ppb
Phosphorus	31-2	1689.20	1725.52	1722.54	1712.42	1.18	ppb
Potassium	39-2	4492.07	4515.13	4511.01	4506.07	0.27	ppb
Rhodium	103-1				98		%
Rhodium	103-2				94		%
Scandium	45-1				99		%
Scandium	45-2				91		%
Selenium	82-1	0.86	0.72	1.17	0.92	25.06	ppb
Selenium	77-2	11.20	6.75	8.35	8.77	25.70	ppb
Selenium	78-2	2.50	1.14	0.76	1.46	62.30	ppb
Silicon	28-1	6392.15	6452.58	6424.93	6423.22	0.47	ppb
Silver	107-1	1.10	1.06	1.06	1.08	1.93	ppb
Silver	109-1	1.07	1.06	1.03	1.05	1.93	ppb
Sodium	23-2	1522.80	1514.61	1508.51	1515.31	0.47	ppb
Strontium	86-1	6534.58	6426.81	6596.62	6519.34	1.32	ppb
Strontium	88-1	6777.59	6643.22	6795.79	6738.87	1.24	ppb
Sulfur	34-1	2868.71	2890.70	2853.65	2871.02	0.65	ppb
Terbium	159-1				106		%
Terbium	159-2				101		%
Thallium	203-1	0.21	0.21	0.22	0.22	2.68	ppb
Thallium	205-1	0.20	0.21	0.20	0.20	1.24	ppb
Tin	118-1	11.93	11.84	11.79	11.85	0.59	ppb
Titanium	47-1	761.71	756.91	747.16	755.26	0.98	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-12

Instrumnet Name :

P7

Client Sample ID :

ME28Q0

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:17:42

DataFile Name :

072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.04	2.04	2.06	2.05	0.59	ppb
Vanadium	51-2	40.61	40.43	40.73	40.59	0.37	ppb
Yttrium	89-1				112		%
Yttrium	89-2				103		%
Zinc	66-2	995.38	996.41	996.77	996.18	0.07	ppb
Zirconium	90-1	5.41	5.34	5.51	5.42	1.59	ppb
Zirconium	91-1	5.42	5.48	5.65	5.51	2.17	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-13 Instrumnet Name : P7
Client Sample ID : ME28Q1 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:20:44 DataFile Name : 073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14657.32	14451.27	14506.27	14538.29	0.73	ppb
Antimony	121-1	6.52	7.22	7.17	6.97	5.61	ppb
Arsenic	75-2	57.13	57.01	56.77	56.97	0.32	ppb
Barium	135-1	359.88	393.89	400.34	384.70	5.65	ppb
Barium	137-1	386.82	425.83	431.08	414.57	5.83	ppb
Beryllium	9-1	1.48	1.72	1.78	1.66	9.63	ppb
Bismuth	209-1				113		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	4.86	5.15	5.08	5.03	3.00	ppb
Cadmium	106-1	3.83	4.00	4.84	4.23	12.81	ppb
Cadmium	111-1	3.63	4.15	4.23	4.01	8.13	ppb
Calcium	43-1	64642.26	71568.56	71675.33	69295.38	5.82	ppb
Calcium	44-1	63330.49	71236.54	71128.37	68565.13	6.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	853.63	851.19	858.20	854.34	0.42	ppb
Cobalt	59-2	35.10	34.83	35.14	35.02	0.48	ppb
Copper	63-2	2008.75	1981.55	1993.77	1994.69	0.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				102		%
Indium	115-1				104		%
Indium	115-2				94		%
Iron	56-2	220917.29	219731.31	222575.47	221074.69	0.65	ppb
Iron	57-2	218928.98	218273.01	220904.47	219368.82	0.62	ppb
Iron	54-2	221080.74	219617.17	222178.02	220958.64	0.58	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-13 Instrumnet Name : P7
Client Sample ID : ME28Q1 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:20:44 DataFile Name : 073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	940.75	1049.94	1024.61	1005.10	5.69	ppb
Lead	207-1	922.10	1031.62	1010.74	988.15	5.88	ppb
Lead	208-1	927.81	1033.87	1022.63	994.77	5.86	ppb
Lithium	6-1				106		%
Magnesium	24-2	15351.71	15288.40	15446.64	15362.25	0.52	ppb
Manganese	55-2	2616.29	2608.77	2626.04	2617.03	0.33	ppb
Molybdenum	94-1	78.76	90.67	89.93	86.46	7.72	ppb
Molybdenum	95-1	87.64	98.65	99.68	95.32	7.00	ppb
Molybdenum	96-1	87.89	99.87	99.65	95.80	7.15	ppb
Molybdenum	97-1	88.08	100.40	99.82	96.10	7.24	ppb
Molybdenum	98-1	88.17	99.47	99.80	95.82	6.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	404.12	403.55	405.15	404.27	0.20	ppb
Phosphorus	31-2	904.48	847.34	854.88	868.90	3.57	ppb
Potassium	39-2	3136.89	3139.36	3172.80	3149.69	0.64	ppb
Rhodium	103-1				103		%
Rhodium	103-2				96		%
Scandium	45-1				103		%
Scandium	45-2				94		%
Selenium	82-1	0.40	0.13	0.63	0.39	63.62	ppb
Selenium	77-2	7.95	9.20	7.49	8.21	10.78	ppb
Selenium	78-2	0.50	0.65	0.51	0.55	14.90	ppb
Silicon	28-1	5212.27	5831.63	5867.72	5637.21	6.54	ppb
Silver	107-1	0.98	1.08	1.11	1.06	6.36	ppb
Silver	109-1	0.97	1.06	1.07	1.03	5.39	ppb
Sodium	23-2	641.63	634.39	641.27	639.10	0.64	ppb
Strontium	86-1	3604.42	4114.91	4118.75	3946.03	7.50	ppb
Strontium	88-1	3731.68	4266.87	4214.26	4070.94	7.25	ppb
Sulfur	34-1	943.44	1335.75	1431.67	1236.95	20.91	ppb
Terbium	159-1				109		%
Terbium	159-2				101		%
Thallium	203-1	0.12	0.14	0.14	0.13	6.75	ppb
Thallium	205-1	0.13	0.15	0.15	0.14	5.84	ppb
Tin	118-1	551.13	614.13	623.56	596.27	6.60	ppb
Titanium	47-1	431.76	484.30	487.79	467.95	6.71	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-13

Instrumnet Name :

P7

Client Sample ID :

ME28Q1

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:20:44

DataFile Name :

073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.38	1.55	1.53	1.49	6.34	ppb
Vanadium	51-2	71.19	70.66	71.54	71.13	0.63	ppb
Yttrium	89-1				113		%
Yttrium	89-2				101		%
Zinc	66-2	1325.09	1306.56	1317.16	1316.27	0.71	ppb
Zirconium	90-1	3.55	4.07	4.11	3.91	7.95	ppb
Zirconium	91-1	3.69	4.12	4.17	3.99	6.59	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-14 Instrumnet Name : P7
Client Sample ID : ME28Q2 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:23:43 DataFile Name : 074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16045.10	16241.72	16207.31	16164.71	0.65	ppb
Antimony	121-1	2.14	2.15	2.16	2.15	0.53	ppb
Arsenic	75-2	19.50	19.91	20.48	19.96	2.45	ppb
Barium	135-1	254.69	260.67	254.44	256.60	1.37	ppb
Barium	137-1	260.72	264.10	260.62	261.81	0.76	ppb
Beryllium	9-1	1.49	1.33	1.40	1.41	5.62	ppb
Bismuth	209-1				111		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.30	2.64	2.70	2.55	8.45	ppb
Cadmium	106-1	2.15	2.54	1.89	2.19	14.89	ppb
Cadmium	111-1	1.91	1.95	1.88	1.91	1.87	ppb
Calcium	43-1	69832.36	72296.31	72366.67	71498.45	2.02	ppb
Calcium	44-1	69747.05	72008.69	71888.79	71214.84	1.79	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	549.05	544.90	541.79	545.24	0.67	ppb
Cobalt	59-2	20.33	20.62	20.50	20.48	0.69	ppb
Copper	63-2	402.55	403.35	401.07	402.32	0.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				103		%
Indium	115-1				101		%
Indium	115-2				94		%
Iron	56-2	111166.95	112554.94	113310.68	112344.19	0.97	ppb
Iron	57-2	111091.80	113187.81	112277.17	112185.59	0.94	ppb
Iron	54-2	112928.03	113384.91	113802.01	113371.65	0.39	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-14 Instrumnet Name : P7
Client Sample ID : ME28Q2 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:23:43 DataFile Name : 074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	287.05	290.96	286.86	288.29	0.80	ppb
Lead	207-1	277.52	279.64	283.43	280.20	1.07	ppb
Lead	208-1	280.25	282.41	283.73	282.13	0.62	ppb
Lithium	6-1				104		%
Magnesium	24-2	19284.70	19473.17	19496.78	19418.22	0.60	ppb
Manganese	55-2	1614.78	1632.31	1649.47	1632.19	1.06	ppb
Molybdenum	94-1	43.04	44.56	44.70	44.10	2.08	ppb
Molybdenum	95-1	44.32	45.24	45.67	45.08	1.54	ppb
Molybdenum	96-1	44.83	46.30	46.50	45.88	1.99	ppb
Molybdenum	97-1	44.54	46.16	46.09	45.60	2.00	ppb
Molybdenum	98-1	44.49	45.59	46.12	45.40	1.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	228.45	231.97	232.70	231.04	0.98	ppb
Phosphorus	31-2	713.93	697.76	725.80	712.49	1.98	ppb
Potassium	39-2	2452.06	2460.82	2474.37	2462.42	0.46	ppb
Rhodium	103-1				99		%
Rhodium	103-2				94		%
Scandium	45-1				99		%
Scandium	45-2				90		%
Selenium	82-1	0.18	0.55	-0.03	0.23	125.51	ppb
Selenium	77-2	7.30	6.73	10.68	8.24	25.94	ppb
Selenium	78-2	0.94	1.11	-0.52	0.51	176.24	ppb
Silicon	28-1	3937.78	4043.00	4066.73	4015.84	1.71	ppb
Silver	107-1	0.44	0.46	0.47	0.46	2.79	ppb
Silver	109-1	0.45	0.47	0.45	0.45	2.16	ppb
Sodium	23-2	444.91	450.95	450.61	448.82	0.76	ppb
Strontium	86-1	4198.34	4287.55	4315.70	4267.19	1.44	ppb
Strontium	88-1	4304.73	4483.06	4416.20	4401.33	2.05	ppb
Sulfur	34-1	1273.88	1421.52	1494.12	1396.51	8.04	ppb
Terbium	159-1				106		%
Terbium	159-2				101		%
Thallium	203-1	0.20	0.21	0.21	0.21	1.53	ppb
Thallium	205-1	0.20	0.20	0.19	0.20	1.88	ppb
Tin	118-1	68.95	70.66	69.85	69.82	1.23	ppb
Titanium	47-1	400.39	417.16	416.61	411.39	2.32	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-14

Instrumnet Name :

P7

Client Sample ID :

ME28Q2

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:23:43

DataFile Name :

074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.66	1.69	1.69	1.68	1.23	ppb
Vanadium	51-2	54.15	54.27	54.55	54.32	0.38	ppb
Yttrium	89-1				108		%
Yttrium	89-2				98		%
Zinc	66-2	948.33	965.02	961.65	958.34	0.92	ppb
Zirconium	90-1	3.58	3.74	3.72	3.68	2.29	ppb
Zirconium	91-1	3.66	3.75	3.80	3.74	1.96	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5154-15Instrumnet Name :P7

Client Sample ID :ME28Q3Dilution Factor :1

Date & Time Acquired :2024-12-23 15:26:48DataFile Name :075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8833.72	8657.10	8821.37	8770.73	1.12	ppb
Antimony	121-1	3.54	3.61	3.56	3.57	1.05	ppb
Arsenic	75-2	28.18	27.62	28.36	28.05	1.37	ppb
Barium	135-1	264.99	270.03	269.12	268.05	1.00	ppb
Barium	137-1	270.18	293.46	287.91	283.85	4.28	ppb
Beryllium	9-1	1.70	1.66	1.67	1.68	1.26	ppb
Bismuth	209-1				112		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	10.58	10.48	10.48	10.51	0.58	ppb
Cadmium	106-1	9.23	11.18	10.03	10.15	9.67	ppb
Cadmium	111-1	9.40	9.73	9.52	9.55	1.76	ppb
Calcium	43-1	94388.74	96171.84	96238.37	95599.65	1.10	ppb
Calcium	44-1	94711.06	95431.01	95629.15	95257.07	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	540.88	544.97	541.80	542.55	0.40	ppb
Cobalt	59-2	14.52	14.63	14.53	14.56	0.41	ppb
Copper	63-2	119.94	118.68	119.06	119.23	0.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				102		%
Indium	115-1				100		%
Indium	115-2				95		%
Iron	56-2	333649.59	328624.07	328845.48	330373.04	0.86	ppb
Iron	57-2	330940.21	327060.19	322107.80	326702.73	1.36	ppb
Iron	54-2	333968.79	329169.48	330723.33	331287.20	0.74	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-15 Instrumnet Name : P7
Client Sample ID : ME28Q3 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:26:48 DataFile Name : 075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1804.68	1878.02	1846.36	1843.02	2.00	ppb
Lead	207-1	1711.86	1755.32	1726.87	1731.35	1.28	ppb
Lead	208-1	1749.33	1784.15	1766.25	1766.58	0.99	ppb
Lithium	6-1				102		%
Magnesium	24-2	15078.65	14911.96	15185.13	15058.58	0.91	ppb
Manganese	55-2	13898.91	13687.55	13743.61	13776.69	0.79	ppb
Molybdenum	94-1	22.02	22.51	22.51	22.35	1.27	ppb
Molybdenum	95-1	19.90	20.71	20.13	20.25	2.05	ppb
Molybdenum	96-1	22.39	22.85	22.45	22.56	1.12	ppb
Molybdenum	97-1	19.83	20.27	20.33	20.14	1.35	ppb
Molybdenum	98-1	19.85	20.30	20.20	20.12	1.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	287.02	285.64	284.94	285.87	0.37	ppb
Phosphorus	31-2	1157.90	1141.47	1183.41	1160.93	1.82	ppb
Potassium	39-2	1720.93	1688.65	1715.71	1708.43	1.01	ppb
Rhodium	103-1				98		%
Rhodium	103-2				95		%
Scandium	45-1				97		%
Scandium	45-2				92		%
Selenium	82-1	0.74	0.71	0.42	0.62	28.60	ppb
Selenium	77-2	4.92	2.43	2.29	3.21	46.04	ppb
Selenium	78-2	0.11	0.20	0.34	0.22	52.21	ppb
Silicon	28-1	2485.74	2486.27	2492.21	2488.07	0.14	ppb
Silver	107-1	5.50	5.64	5.62	5.58	1.38	ppb
Silver	109-1	5.45	5.56	5.57	5.53	1.26	ppb
Sodium	23-2	636.86	633.28	638.70	636.28	0.43	ppb
Strontium	86-1	3145.96	3190.37	3160.03	3165.45	0.72	ppb
Strontium	88-1	3251.75	3268.04	3281.21	3267.00	0.45	ppb
Sulfur	34-1	1083.15	1052.91	1069.75	1068.60	1.42	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	2.40	2.42	2.37	2.40	1.02	ppb
Thallium	205-1	2.35	2.42	2.42	2.40	1.78	ppb
Tin	118-1	17.17	17.24	17.15	17.19	0.28	ppb
Titanium	47-1	568.44	573.85	570.56	570.95	0.48	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-15

Instrumnet Name :

P7

Client Sample ID :

ME28Q3

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:26:48

DataFile Name :

075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.73	0.75	0.74	0.74	1.51	ppb
Vanadium	51-2	62.91	62.55	63.22	62.90	0.53	ppb
Yttrium	89-1				103		%
Yttrium	89-2				97		%
Zinc	66-2	5291.10	5193.90	5144.24	5209.74	1.43	ppb
Zirconium	90-1	3.19	3.12	3.05	3.12	2.20	ppb
Zirconium	91-1	3.04	3.22	3.14	3.13	2.93	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5154-16Instrumnet Name :P7

Client Sample ID :ME28Q4Dilution Factor :1

Date & Time Acquired :2024-12-23 15:29:51DataFile Name :076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9219.42	9230.16	9417.86	9289.14	1.20	ppb
Antimony	121-1	3.50	3.51	3.53	3.51	0.50	ppb
Arsenic	75-2	28.25	28.73	28.72	28.57	0.96	ppb
Barium	135-1	239.52	240.45	241.74	240.57	0.46	ppb
Barium	137-1	243.78	245.35	245.76	244.96	0.43	ppb
Beryllium	9-1	1.70	1.94	1.75	1.80	6.99	ppb
Bismuth	209-1				129		%
Bismuth	209-2				123		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	16.35	17.05	16.27	16.56	2.58	ppb
Cadmium	106-1	16.58	16.16	16.05	16.26	1.72	ppb
Cadmium	111-1	9.26	9.04	8.92	9.07	1.88	ppb
Calcium	43-1	100297.62	101487.81	101908.01	101231.14	0.83	ppb
Calcium	44-1	100979.05	102023.75	101668.44	101557.08	0.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	526.12	530.37	539.69	532.06	1.31	ppb
Cobalt	59-2	14.61	14.36	14.55	14.51	0.89	ppb
Copper	63-2	115.55	115.16	116.06	115.59	0.39	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				103		%
Indium	115-1				102		%
Indium	115-2				96		%
Iron	56-2	325496.39	319652.87	325907.39	323685.55	1.08	ppb
Iron	57-2	324284.76	316318.44	322538.63	321047.27	1.30	ppb
Iron	54-2	323554.03	321411.75	326255.55	323740.44	0.75	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16 Instrumnet Name : P7
Client Sample ID : ME28Q4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:29:51 DataFile Name : 076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4724.74	4695.76	4726.32	4715.61	0.36	ppb
Lead	207-1	4457.41	4421.65	4448.14	4442.40	0.42	ppb
Lead	208-1	4542.91	4513.35	4534.40	4530.22	0.34	ppb
Lithium	6-1				101		%
Magnesium	24-2	18570.87	18445.71	18628.62	18548.40	0.50	ppb
Manganese	55-2	10778.17	10730.07	10891.27	10799.84	0.77	ppb
Molybdenum	94-1	19.92	20.25	20.06	20.08	0.82	ppb
Molybdenum	95-1	17.45	17.68	17.66	17.59	0.74	ppb
Molybdenum	96-1	20.05	20.52	20.45	20.34	1.26	ppb
Molybdenum	97-1	17.31	17.80	17.75	17.62	1.51	ppb
Molybdenum	98-1	17.39	17.89	17.78	17.69	1.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	261.97	261.46	263.74	262.39	0.46	ppb
Phosphorus	31-2	1058.72	1052.05	1096.67	1069.15	2.25	ppb
Potassium	39-2	1939.53	1929.39	1951.65	1940.19	0.57	ppb
Rhodium	103-1				99		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				94		%
Selenium	82-1	0.44	0.83	0.66	0.64	29.83	ppb
Selenium	77-2	3.49	5.53	3.56	4.20	27.63	ppb
Selenium	78-2	0.31	-0.44	-0.23	-0.12		ppb
Silicon	28-1	2591.43	2617.91	2623.97	2611.10	0.66	ppb
Silver	107-1	5.29	5.37	5.43	5.37	1.34	ppb
Silver	109-1	5.26	5.25	5.30	5.27	0.53	ppb
Sodium	23-2	673.97	672.48	677.64	674.70	0.39	ppb
Strontium	86-1	3338.41	3383.00	3348.97	3356.80	0.69	ppb
Strontium	88-1	3404.41	3479.74	3496.13	3460.09	1.41	ppb
Sulfur	34-1	1620.81	1684.81	1700.52	1668.71	2.53	ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	1.79	1.83	1.82	1.81	1.19	ppb
Thallium	205-1	1.79	1.78	1.83	1.80	1.27	ppb
Tin	118-1	17.30	17.14	17.21	17.22	0.45	ppb
Titanium	47-1	383.95	389.94	386.75	386.88	0.77	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16

Instrumnet Name :

P7

Client Sample ID :

ME28Q4

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:29:51

DataFile Name :

076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.74	0.75	0.74	0.74	0.70	ppb
Vanadium	51-2	52.94	52.51	53.59	53.01	1.03	ppb
Yttrium	89-1				105		%
Yttrium	89-2				99		%
Zinc	66-2	24606.44	24350.29	24461.64	24472.79	0.52	ppb
Zirconium	90-1	2.89	2.97	2.92	2.93	1.32	ppb
Zirconium	91-1	2.94	2.99	3.01	2.98	1.31	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5154-17Instrumnet Name :P7

Client Sample ID :ME28Q4DDilution Factor :1

Date & Time Acquired :2024-12-23 15:32:58DataFile Name :077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9204.71	9263.94	9122.91	9197.19	0.77	ppb
Antimony	121-1	3.36	3.57	3.50	3.48	3.02	ppb
Arsenic	75-2	29.40	28.77	29.46	29.21	1.32	ppb
Barium	135-1	231.26	242.79	242.23	238.76	2.72	ppb
Barium	137-1	235.95	247.62	246.69	243.42	2.66	ppb
Beryllium	9-1	1.71	1.78	1.82	1.77	2.96	ppb
Bismuth	209-1				130		%
Bismuth	209-2				124		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	15.36	17.40	16.09	16.29	6.35	ppb
Cadmium	106-1	16.34	16.80	16.12	16.42	2.11	ppb
Cadmium	111-1	8.77	9.12	9.18	9.02	2.47	ppb
Calcium	43-1	96986.78	101390.34	103558.64	100645.26	3.33	ppb
Calcium	44-1	97003.95	101930.11	104767.61	101233.89	3.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	533.23	527.61	528.35	529.73	0.58	ppb
Cobalt	59-2	14.51	14.76	14.58	14.62	0.86	ppb
Copper	63-2	115.35	115.13	115.94	115.47	0.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				103		%
Indium	115-1				102		%
Indium	115-2				96		%
Iron	56-2	321554.98	321230.54	323636.06	322140.52	0.41	ppb
Iron	57-2	320388.37	321527.62	323634.45	321850.15	0.51	ppb
Iron	54-2	321308.26	320840.06	324080.59	322076.30	0.54	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-17 Instrumnet Name : P7
Client Sample ID : ME28Q4D Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:32:58 DataFile Name : 077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4572.76	4744.01	4722.43	4679.74	1.99	ppb
Lead	207-1	4320.23	4464.12	4488.09	4424.15	2.05	ppb
Lead	208-1	4393.04	4560.01	4585.20	4512.75	2.31	ppb
Lithium	6-1				102		%
Magnesium	24-2	18591.88	18625.32	18711.73	18642.98	0.33	ppb
Manganese	55-2	10590.89	10693.41	10819.49	10701.26	1.07	ppb
Molybdenum	94-1	19.43	20.52	20.47	20.14	3.08	ppb
Molybdenum	95-1	17.10	18.14	18.17	17.80	3.43	ppb
Molybdenum	96-1	19.74	20.81	20.86	20.47	3.11	ppb
Molybdenum	97-1	17.04	18.01	17.86	17.63	2.96	ppb
Molybdenum	98-1	17.04	17.86	18.03	17.64	3.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	259.41	260.47	261.65	260.51	0.43	ppb
Phosphorus	31-2	1086.78	1087.03	1118.08	1097.30	1.64	ppb
Potassium	39-2	1942.40	1936.29	1936.36	1938.35	0.18	ppb
Rhodium	103-1				101		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				96		%
Selenium	82-1	0.82	0.86	1.00	0.89	10.81	ppb
Selenium	77-2	4.45	4.12	3.66	4.08	9.68	ppb
Selenium	78-2	0.41	1.26	0.24	0.64	86.14	ppb
Silicon	28-1	2498.12	2629.37	2655.72	2594.41	3.25	ppb
Silver	107-1	5.17	5.41	5.41	5.33	2.58	ppb
Silver	109-1	5.01	5.38	5.31	5.23	3.73	ppb
Sodium	23-2	667.66	671.50	675.67	671.61	0.60	ppb
Strontium	86-1	3218.87	3415.59	3397.78	3344.08	3.25	ppb
Strontium	88-1	3357.44	3523.93	3496.29	3459.22	2.58	ppb
Sulfur	34-1	1414.51	1675.02	1731.78	1607.10	10.53	ppb
Terbium	159-1				107		%
Terbium	159-2				101		%
Thallium	203-1	1.72	1.83	1.84	1.80	3.65	ppb
Thallium	205-1	1.73	1.79	1.84	1.79	3.22	ppb
Tin	118-1	16.57	17.50	17.50	17.19	3.14	ppb
Titanium	47-1	372.38	389.73	394.54	385.55	3.02	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-17

Instrumnet Name :

P7

Client Sample ID :

ME28Q4D

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:32:58

DataFile Name :

077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.71	0.74	0.76	0.74	3.91	ppb
Vanadium	51-2	52.47	52.98	53.15	52.87	0.67	ppb
Yttrium	89-1				106		%
Yttrium	89-2				99		%
Zinc	66-2	24495.15	24404.59	24195.90	24365.21	0.63	ppb
Zirconium	90-1	2.84	3.01	3.00	2.95	3.27	ppb
Zirconium	91-1	2.80	3.02	3.09	2.97	5.04	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16LX5 Instrumnet Name : P7
Client Sample ID : ME28Q4L Dilution Factor : 5
Date & Time Acquired : 2024-12-23 15:36:00 DataFile Name : 078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1846.83	1835.17	1833.06	1838.35	0.40	ppb
Antimony	121-1	0.69	0.67	0.70	0.68	1.87	ppb
Arsenic	75-2	6.02	5.94	5.62	5.86	3.60	ppb
Barium	135-1	46.95	47.36	48.39	47.57	1.56	ppb
Barium	137-1	47.80	48.61	48.76	48.39	1.07	ppb
Beryllium	9-1	0.34	0.37	0.36	0.36	4.23	ppb
Bismuth	209-1				113		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	3.21	3.25	3.34	3.27	2.00	ppb
Cadmium	106-1	3.11	1.72	2.88	2.57	29.15	ppb
Cadmium	111-1	1.79	1.69	1.89	1.79	5.56	ppb
Calcium	43-1	20791.52	21118.64	21576.95	21162.37	1.86	ppb
Calcium	44-1	19972.84	20201.82	20708.44	20294.37	1.85	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	104.95	105.20	104.96	105.04	0.14	ppb
Cobalt	59-2	3.04	2.99	2.88	2.97	2.74	ppb
Copper	63-2	23.76	23.82	23.81	23.80	0.14	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				101		%
Indium	115-1				101		%
Indium	115-2				95		%
Iron	56-2	65156.67	65344.94	65235.87	65245.83	0.14	ppb
Iron	57-2	64516.65	64278.86	64264.71	64353.41	0.22	ppb
Iron	54-2	66178.05	65912.86	65211.10	65767.34	0.76	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16LX5 Instrumnet Name : P7
Client Sample ID : ME28Q4L Dilution Factor : 5
Date & Time Acquired : 2024-12-23 15:36:00 DataFile Name : 078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1045.67	1072.32	1084.80	1067.60	1.87	ppb
Lead	207-1	997.23	1009.67	1016.28	1007.73	0.96	ppb
Lead	208-1	1012.24	1031.78	1043.69	1029.24	1.54	ppb
Lithium	6-1				100		%
Magnesium	24-2	3752.32	3846.43	3710.33	3769.69	1.85	ppb
Manganese	55-2	2175.75	2173.08	2169.71	2172.85	0.14	ppb
Molybdenum	94-1	3.93	4.09	4.12	4.05	2.63	ppb
Molybdenum	95-1	3.48	3.65	3.69	3.61	3.17	ppb
Molybdenum	96-1	3.98	4.24	4.12	4.11	3.09	ppb
Molybdenum	97-1	3.56	3.63	3.69	3.63	1.70	ppb
Molybdenum	98-1	3.47	3.60	3.73	3.60	3.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	53.37	53.06	52.89	53.11	0.46	ppb
Phosphorus	31-2	203.91	215.44	207.71	209.02	2.81	ppb
Potassium	39-2	427.10	431.55	429.86	429.50	0.52	ppb
Rhodium	103-1				100		%
Rhodium	103-2				96		%
Scandium	45-1				97		%
Scandium	45-2				92		%
Selenium	82-1	0.14	-0.24	-0.39	-0.16		ppb
Selenium	77-2	0.50	-0.16	1.33	0.56	133.22	ppb
Selenium	78-2	-1.81	-0.90	-0.49	-1.07		ppb
Silicon	28-1	516.99	524.40	537.73	526.37	2.00	ppb
Silver	107-1	1.06	1.08	1.11	1.08	2.53	ppb
Silver	109-1	1.02	1.07	1.08	1.06	2.82	ppb
Sodium	23-2	158.88	157.93	156.10	157.63	0.90	ppb
Strontium	86-1	681.02	697.15	709.85	696.01	2.08	ppb
Strontium	88-1	675.59	683.95	705.86	688.47	2.27	ppb
Sulfur	34-1	145.01	209.82	259.85	204.90	28.10	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	0.39	0.38	0.41	0.40	2.94	ppb
Thallium	205-1	0.39	0.41	0.41	0.40	2.72	ppb
Tin	118-1	3.36	3.41	3.43	3.40	0.95	ppb
Titanium	47-1	75.96	77.59	78.70	77.42	1.78	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16LX5

Instrumnet Name :

P7

Client Sample ID :

ME28Q4L

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 15:36:00

DataFile Name :

078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.17	0.16	0.16	0.16	2.47	ppb
Vanadium	51-2	10.60	10.50	10.50	10.53	0.54	ppb
Yttrium	89-1				101		%
Yttrium	89-2				96		%
Zinc	66-2	5022.95	5093.22	5030.35	5048.84	0.76	ppb
Zirconium	90-1	0.55	0.57	0.58	0.57	3.03	ppb
Zirconium	91-1	0.53	0.59	0.55	0.55	5.68	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5154-18Instrumnet Name :P7

Client Sample ID :ME28Q4SDilution Factor :1

Date & Time Acquired :2024-12-23 15:39:09DataFile Name :079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9449.89	9606.09	9612.64	9556.21	0.96	ppb
Antimony	121-1	23.93	24.03	24.42	24.13	1.09	ppb
Arsenic	75-2	37.37	36.29	35.75	36.47	2.26	ppb
Barium	135-1	681.31	675.48	695.90	684.23	1.54	ppb
Barium	137-1	675.50	675.70	684.69	678.63	0.77	ppb
Beryllium	9-1	12.13	11.97	11.61	11.90	2.26	ppb
Bismuth	209-1				129		%
Bismuth	209-2				123		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	26.22	26.64	26.21	26.35	0.93	ppb
Cadmium	106-1	25.31	25.69	26.22	25.74	1.79	ppb
Cadmium	111-1	19.47	19.36	19.71	19.51	0.92	ppb
Calcium	43-1	99226.88	102335.05	97792.63	99784.86	2.33	ppb
Calcium	44-1	99321.63	101467.57	99009.35	99932.85	1.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	568.66	566.78	577.04	570.83	0.96	ppb
Cobalt	59-2	118.78	118.44	118.54	118.59	0.15	ppb
Copper	63-2	162.63	162.53	163.91	163.02	0.47	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				95		%
Iron	56-2	318518.77	316661.55	320552.04	318577.45	0.61	ppb
Iron	57-2	317421.78	310793.13	315352.88	314522.60	1.08	ppb
Iron	54-2	320331.70	320840.59	320502.94	320558.41	0.08	ppb
Krypton	83-1						cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-18

Instrumnet Name :

P7

Client Sample ID :

ME28Q4S

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:39:09

DataFile Name :

079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4629.15	4705.35	4652.32	4662.27	0.84	ppb
Lead	207-1	4403.53	4391.29	4366.33	4387.05	0.43	ppb
Lead	208-1	4507.85	4488.11	4461.67	4485.88	0.52	ppb
Lithium	6-1				102		%
Magnesium	24-2	18445.00	18467.52	18385.14	18432.56	0.23	ppb
Manganese	55-2	10590.98	10655.47	10747.39	10664.61	0.74	ppb
Molybdenum	94-1	19.53	20.20	19.94	19.89	1.72	ppb
Molybdenum	95-1	17.40	17.79	17.71	17.63	1.18	ppb
Molybdenum	96-1	19.78	20.25	20.42	20.15	1.65	ppb
Molybdenum	97-1	17.20	17.81	17.39	17.47	1.77	ppb
Molybdenum	98-1	17.28	17.57	17.50	17.45	0.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	360.42	360.39	362.06	360.95	0.26	ppb
Phosphorus	31-2	1066.70	1062.17	1067.87	1065.58	0.28	ppb
Potassium	39-2	1900.83	1904.89	1912.53	1906.08	0.31	ppb
Rhodium	103-1				99		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				94		%
Selenium	82-1	21.63	22.81	21.79	22.07	2.90	ppb
Selenium	77-2	26.49	22.47	22.95	23.97	9.15	ppb
Selenium	78-2	19.67	19.37	22.21	20.41	7.63	ppb
Silicon	28-1	2583.75	2596.54	2557.03	2579.11	0.78	ppb
Silver	107-1	15.64	15.79	15.96	15.80	1.02	ppb
Silver	109-1	15.41	15.52	15.76	15.56	1.12	ppb
Sodium	23-2	657.74	658.93	662.16	659.61	0.35	ppb
Strontium	86-1	3289.12	3350.98	3348.65	3329.58	1.05	ppb
Strontium	88-1	3464.07	3486.05	3471.56	3473.89	0.32	ppb
Sulfur	34-1	1600.63	1653.28	1521.20	1591.70	4.18	ppb
Terbium	159-1				107		%
Terbium	159-2				101		%
Thallium	203-1	9.63	9.86	9.66	9.72	1.30	ppb
Thallium	205-1	9.66	9.82	9.59	9.69	1.20	ppb
Tin	118-1	16.65	16.77	16.97	16.80	0.98	ppb
Titanium	47-1	381.06	387.10	376.96	381.71	1.34	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-18

Instrumnet Name :

P7

Client Sample ID :

ME28Q4S

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:39:09

DataFile Name :

079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.73	0.75	0.74	0.74	1.24	ppb
Vanadium	51-2	157.93	157.16	158.84	157.98	0.53	ppb
Yttrium	89-1				105		%
Yttrium	89-2				99		%
Zinc	66-2	24132.82	24057.69	24240.64	24143.72	0.38	ppb
Zirconium	90-1	2.85	2.95	2.90	2.90	1.69	ppb
Zirconium	91-1	2.93	3.00	2.86	2.93	2.38	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-19 Instrumnet Name : P7
Client Sample ID : ME28Q5 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:42:08 DataFile Name : 080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13099.25	13047.67	13140.65	13095.86	0.36	ppb
Antimony	121-1	0.36	0.40	0.38	0.38	4.68	ppb
Arsenic	75-2	20.00	20.64	20.72	20.45	1.94	ppb
Barium	135-1	114.26	121.09	118.62	117.99	2.93	ppb
Barium	137-1	116.29	122.88	121.76	120.31	2.93	ppb
Beryllium	9-1	0.98	1.10	1.07	1.05	6.21	ppb
Bismuth	209-1				110		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.76	1.92	1.61	1.76	8.87	ppb
Cadmium	106-1	0.50	1.14	0.68	0.77	43.03	ppb
Cadmium	111-1	1.42	1.48	1.51	1.47	2.89	ppb
Calcium	43-1	71403.42	73112.82	73276.19	72597.47	1.43	ppb
Calcium	44-1	70695.69	74120.71	72978.49	72598.30	2.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	44.16	44.36	44.18	44.23	0.24	ppb
Cobalt	59-2	21.34	21.57	21.77	21.56	0.99	ppb
Copper	63-2	82.33	82.78	82.69	82.60	0.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				92		%
Iron	56-2	46983.20	47102.27	46962.91	47016.13	0.16	ppb
Iron	57-2	46715.88	46578.46	46531.55	46608.63	0.21	ppb
Iron	54-2	46970.59	46650.83	47127.69	46916.37	0.52	ppb
Krypton	83-1						cps

LB Number :	LB134068	Operator :	Jaswal
Lab Sample ID :	P5154-19	Instrumnet Name :	P7
Client Sample ID :	ME28Q5	Dilution Factor :	1
Date & Time Acquired :	2024-12-23 15:42:08	DataFile Name :	080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	58.17	60.40	60.65	59.74	2.29	ppb
Lead	207-1	53.54	55.30	55.37	54.74	1.89	ppb
Lead	208-1	55.20	56.94	57.36	56.50	2.03	ppb
Lithium	6-1				105		%
Magnesium	24-2	12114.68	12158.20	12204.52	12159.14	0.37	ppb
Manganese	55-2	1075.11	1073.97	1077.29	1075.45	0.16	ppb
Molybdenum	94-1	8.59	8.80	9.03	8.81	2.50	ppb
Molybdenum	95-1	5.82	6.13	6.22	6.06	3.47	ppb
Molybdenum	96-1	6.53	6.71	6.79	6.68	1.98	ppb
Molybdenum	97-1	5.98	6.11	6.20	6.10	1.82	ppb
Molybdenum	98-1	6.01	6.11	6.19	6.10	1.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	64.99	64.61	65.54	65.05	0.72	ppb
Phosphorus	31-2	1957.26	1963.03	1949.07	1956.45	0.36	ppb
Potassium	39-2	1896.50	1904.49	1899.87	1900.29	0.21	ppb
Rhodium	103-1				99		%
Rhodium	103-2				93		%
Scandium	45-1				98		%
Scandium	45-2				87		%
Selenium	82-1	0.67	0.44	0.86	0.66	31.66	ppb
Selenium	77-2	9.27	10.27	11.62	10.39	11.35	ppb
Selenium	78-2	1.65	-0.15	0.62	0.71	128.02	ppb
Silicon	28-1	2452.15	2545.67	2497.41	2498.41	1.87	ppb
Silver	107-1	0.24	0.20	0.22	0.22	8.88	ppb
Silver	109-1	0.24	0.20	0.20	0.21	9.11	ppb
Sodium	23-2	328.18	328.45	329.79	328.81	0.26	ppb
Strontium	86-1	2420.19	2448.65	2507.56	2458.80	1.81	ppb
Strontium	88-1	2476.58	2537.95	2560.81	2525.12	1.73	ppb
Sulfur	34-1	56.53	240.41	132.70	143.21	64.51	ppb
Terbium	159-1				106		%
Terbium	159-2				99		%
Thallium	203-1	0.24	0.27	0.27	0.26	6.19	ppb
Thallium	205-1	0.26	0.27	0.27	0.27	2.66	ppb
Tin	118-1	1.77	1.93	1.85	1.85	4.17	ppb
Titanium	47-1	91.18	94.24	93.44	92.95	1.71	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-19

Instrumnet Name :

P7

Client Sample ID :

ME28Q5

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:42:08

DataFile Name :

080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.45	1.49	1.51	1.48	2.10	ppb
Vanadium	51-2	40.33	40.96	40.11	40.47	1.10	ppb
Yttrium	89-1				106		%
Yttrium	89-2				96		%
Zinc	66-2	206.38	207.45	206.24	206.69	0.32	ppb
Zirconium	90-1	2.03	2.08	2.21	2.11	4.62	ppb
Zirconium	91-1	2.05	2.10	2.15	2.10	2.32	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-20

Instrumnet Name :

P7

Client Sample ID :

ME28R3

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:45:18

DataFile Name :

081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13656.54	13611.83	13623.52	13630.63	0.17	ppb
Antimony	121-1	1.47	1.57	1.52	1.52	3.20	ppb
Arsenic	75-2	17.32	17.01	17.26	17.20	0.94	ppb
Barium	135-1	183.74	191.82	191.48	189.02	2.42	ppb
Barium	137-1	185.72	194.90	195.16	191.93	2.80	ppb
Beryllium	9-1	1.09	1.22	1.21	1.18	5.99	ppb
Bismuth	209-1				111		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	6.89	6.85	7.30	7.01	3.54	ppb
Cadmium	106-1	4.29	5.04	5.47	4.93	12.09	ppb
Cadmium	111-1	5.67	6.12	6.16	5.98	4.50	ppb
Calcium	43-1	105472.44	109689.71	110698.20	108620.11	2.55	ppb
Calcium	44-1	106251.51	110611.64	110728.05	109197.07	2.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	416.65	413.96	411.72	414.11	0.60	ppb
Cobalt	59-2	15.91	16.24	15.89	16.02	1.23	ppb
Copper	63-2	158.59	162.02	158.77	159.79	1.21	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				91		%
Iron	56-2	151099.40	154136.41	152333.24	152523.02	1.00	ppb
Iron	57-2	150166.55	153033.93	150378.92	151193.13	1.06	ppb
Iron	54-2	150680.55	153883.09	152142.26	152235.30	1.05	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-20 Instrumnet Name : P7
Client Sample ID : ME28R3 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:45:18 DataFile Name : 081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	617.58	643.11	638.44	633.05	2.15	ppb
Lead	207-1	588.90	610.66	614.65	604.74	2.29	ppb
Lead	208-1	589.98	626.22	621.34	612.51	3.21	ppb
Lithium	6-1				106		%
Magnesium	24-2	15633.58	15788.35	15677.14	15699.69	0.51	ppb
Manganese	55-2	6203.63	6331.03	6216.65	6250.44	1.12	ppb
Molybdenum	94-1	19.57	20.78	20.87	20.41	3.57	ppb
Molybdenum	95-1	18.30	19.06	19.35	18.91	2.86	ppb
Molybdenum	96-1	19.64	20.27	20.61	20.17	2.44	ppb
Molybdenum	97-1	18.31	19.11	19.54	18.99	3.29	ppb
Molybdenum	98-1	18.29	19.34	19.46	19.03	3.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	198.26	201.13	198.74	199.38	0.77	ppb
Phosphorus	31-2	1605.00	1600.10	1615.47	1606.86	0.49	ppb
Potassium	39-2	3428.80	3475.66	3465.18	3456.55	0.71	ppb
Rhodium	103-1				97		%
Rhodium	103-2				92		%
Scandium	45-1				96		%
Scandium	45-2				86		%
Selenium	82-1	0.87	0.92	0.79	0.86	7.73	ppb
Selenium	77-2	5.15	7.20	5.23	5.86	19.82	ppb
Selenium	78-2	1.69	-0.75	-0.39	0.18	720.88	ppb
Silicon	28-1	2820.24	2977.51	2997.25	2931.67	3.31	ppb
Silver	107-1	2.22	2.33	2.30	2.28	2.52	ppb
Silver	109-1	2.19	2.32	2.34	2.28	3.37	ppb
Sodium	23-2	419.30	423.09	424.31	422.23	0.62	ppb
Strontium	86-1	5111.88	5324.06	5407.25	5281.06	2.88	ppb
Strontium	88-1	5299.95	5506.49	5591.79	5466.08	2.75	ppb
Sulfur	34-1	1237.21	1423.52	1461.14	1373.96	8.73	ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	0.84	0.82	0.84	0.83	1.18	ppb
Thallium	205-1	0.82	0.84	0.84	0.83	1.96	ppb
Tin	118-1	9.11	9.57	9.49	9.39	2.64	ppb
Titanium	47-1	362.26	372.57	374.46	369.76	1.77	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-20

Instrumnet Name :

P7

Client Sample ID :

ME28R3

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:45:18

DataFile Name :

081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.15	1.19	1.21	1.18	2.83	ppb
Vanadium	51-2	89.36	91.94	90.10	90.47	1.47	ppb
Yttrium	89-1				104		%
Yttrium	89-2				94		%
Zinc	66-2	2180.47	2236.91	2203.07	2206.81	1.29	ppb
Zirconium	90-1	2.51	2.64	2.69	2.61	3.61	ppb
Zirconium	91-1	2.54	2.72	2.60	2.62	3.51	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-21 Instrumnet Name : P7
Client Sample ID : ME28R4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:48:20 DataFile Name : 082SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14229.95	14125.25	14220.77	14191.99	0.41	ppb
Antimony	121-1	1.83	1.94	1.92	1.90	3.01	ppb
Arsenic	75-2	20.87	21.69	21.01	21.19	2.08	ppb
Barium	135-1	203.96	207.98	206.57	206.17	0.99	ppb
Barium	137-1	207.66	212.82	209.13	209.87	1.27	ppb
Beryllium	9-1	1.25	1.24	1.27	1.26	1.10	ppb
Bismuth	209-1				110		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	6.65	7.12	7.58	7.12	6.57	ppb
Cadmium	106-1	6.31	6.23	6.52	6.35	2.38	ppb
Cadmium	111-1	6.56	6.66	6.51	6.58	1.17	ppb
Calcium	43-1	111673.13	112265.80	113056.17	112331.70	0.62	ppb
Calcium	44-1	111256.35	111327.78	113125.78	111903.30	0.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	384.42	388.33	384.56	385.77	0.57	ppb
Cobalt	59-2	19.41	19.71	19.66	19.59	0.81	ppb
Copper	63-2	177.09	178.34	178.46	177.96	0.43	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				101		%
Indium	115-1				98		%
Indium	115-2				92		%
Iron	56-2	192346.56	191975.74	190834.46	191718.92	0.41	ppb
Iron	57-2	190970.82	191006.30	190052.08	190676.40	0.28	ppb
Iron	54-2	192017.42	193334.74	191846.61	192399.59	0.42	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-21 Instrumnet Name : P7
Client Sample ID : ME28R4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:48:20 DataFile Name : 082SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	715.62	719.23	722.40	719.08	0.47	ppb
Lead	207-1	683.86	683.14	689.59	685.53	0.52	ppb
Lead	208-1	691.14	694.25	700.01	695.13	0.65	ppb
Lithium	6-1				104		%
Magnesium	24-2	16545.95	16535.12	16524.45	16535.17	0.07	ppb
Manganese	55-2	6477.60	6429.10	6462.22	6456.31	0.38	ppb
Molybdenum	94-1	17.84	17.74	17.85	17.81	0.32	ppb
Molybdenum	95-1	15.64	15.90	16.00	15.85	1.18	ppb
Molybdenum	96-1	17.25	17.32	17.73	17.43	1.48	ppb
Molybdenum	97-1	15.80	15.97	15.89	15.89	0.54	ppb
Molybdenum	98-1	15.69	15.94	16.16	15.93	1.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	205.09	205.24	206.19	205.51	0.29	ppb
Phosphorus	31-2	1687.87	1740.84	1712.74	1713.82	1.55	ppb
Potassium	39-2	3443.56	3525.92	3452.85	3474.11	1.30	ppb
Rhodium	103-1				96		%
Rhodium	103-2				92		%
Scandium	45-1				96		%
Scandium	45-2				88		%
Selenium	82-1	0.57	1.12	0.78	0.82	33.69	ppb
Selenium	77-2	5.91	4.62	6.06	5.53	14.37	ppb
Selenium	78-2	-0.38	0.11	0.01	-0.09		ppb
Silicon	28-1	2567.79	2613.11	2626.96	2602.62	1.19	ppb
Silver	107-1	2.52	2.51	2.49	2.51	0.75	ppb
Silver	109-1	2.48	2.49	2.53	2.50	0.98	ppb
Sodium	23-2	443.48	441.13	443.11	442.57	0.29	ppb
Strontium	86-1	5340.47	5423.59	5404.49	5389.52	0.81	ppb
Strontium	88-1	5467.15	5567.25	5629.23	5554.54	1.47	ppb
Sulfur	34-1	1547.62	1598.77	1567.46	1571.28	1.64	ppb
Terbium	159-1				104		%
Terbium	159-2				99		%
Thallium	203-1	0.91	0.91	0.94	0.92	1.68	ppb
Thallium	205-1	0.91	0.90	0.94	0.92	2.06	ppb
Tin	118-1	12.09	12.18	12.09	12.12	0.44	ppb
Titanium	47-1	366.84	370.45	369.51	368.93	0.51	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-21

Instrumnet Name :

P7

Client Sample ID :

ME28R4

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:48:20

DataFile Name :

082SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.23	1.23	1.26	1.24	1.68	ppb
Vanadium	51-2	96.84	97.52	96.75	97.04	0.43	ppb
Yttrium	89-1				103		%
Yttrium	89-2				96		%
Zinc	66-2	2312.74	2317.32	2319.73	2316.60	0.15	ppb
Zirconium	90-1	2.55	2.57	2.60	2.57	0.89	ppb
Zirconium	91-1	2.59	2.69	2.66	2.65	1.86	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCV045

Instrumnet Name :

P7

Client Sample ID :

CCV045

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:59:06

DataFile Name :

083CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49881.48	49594.68	49375.98	49617.38	0.51	ppb
Antimony	121-1	470.58	487.35	487.46	481.80	2.02	ppb
Arsenic	75-2	471.66	475.94	475.39	474.33	0.49	ppb
Barium	135-1	2362.24	2461.68	2458.58	2427.50	2.33	ppb
Barium	137-1	2372.13	2498.58	2476.33	2449.02	2.76	ppb
Beryllium	9-1	461.86	490.36	483.38	478.53	3.10	ppb
Bismuth	209-1				97		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	457.13	483.47	483.57	474.73	3.21	ppb
Cadmium	106-1	463.40	488.80	477.75	476.65	2.67	ppb
Cadmium	111-1	438.01	459.23	457.50	451.58	2.61	ppb
Calcium	43-1	242746.09	250422.37	250007.22	247725.23	1.74	ppb
Calcium	44-1	239380.03	247322.55	251184.59	245962.39	2.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	493.99	507.23	488.70	496.64	1.92	ppb
Cobalt	59-2	492.17	490.36	482.76	488.43	1.02	ppb
Copper	63-2	4790.07	4861.87	4773.72	4808.55	0.98	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				96		%
Indium	115-1				88		%
Indium	115-2				84		%
Iron	56-2	127065.37	128124.46	127126.53	127438.79	0.47	ppb
Iron	57-2	126785.17	127645.79	126576.59	127002.51	0.45	ppb
Iron	54-2	127283.42	128549.10	127062.93	127631.82	0.63	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV045 Instrumnet Name : P7
Client Sample ID : CCV045 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:59:06 DataFile Name : 083CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2376.65	2492.77	2511.08	2460.17	2.96	ppb
Lead	207-1	2352.64	2485.12	2504.09	2447.28	3.37	ppb
Lead	208-1	2354.06	2474.72	2507.12	2445.30	3.30	ppb
Lithium	6-1				96		%
Magnesium	24-2	236141.58	235333.65	232180.33	234551.85	0.89	ppb
Manganese	55-2	4902.14	4972.77	4917.22	4930.71	0.75	ppb
Molybdenum	94-1	4639.67	4899.66	4883.51	4807.61	3.03	ppb
Molybdenum	95-1	4649.99	4896.44	4876.73	4807.72	2.85	ppb
Molybdenum	96-1	4659.03	4919.94	4909.65	4829.54	3.06	ppb
Molybdenum	97-1	4683.28	4894.10	4921.38	4832.92	2.70	ppb
Molybdenum	98-1	4698.80	4888.45	4961.16	4849.47	2.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	462.75	463.81	456.62	461.06	0.84	ppb
Phosphorus	31-2	9787.96	9826.03	9594.84	9736.28	1.27	ppb
Potassium	39-2	123048.57	123820.86	123293.69	123387.71	0.32	ppb
Rhodium	103-1				86		%
Rhodium	103-2				81		%
Scandium	45-1				91		%
Scandium	45-2				81		%
Selenium	82-1	451.30	463.80	476.96	464.02	2.77	ppb
Selenium	77-2	450.09	474.97	479.45	468.17	3.38	ppb
Selenium	78-2	473.99	467.76	482.07	474.60	1.51	ppb
Silicon	28-1	189.37	195.86	200.53	195.25	2.87	ppb
Silver	107-1	468.28	481.19	479.11	476.19	1.46	ppb
Silver	109-1	463.37	490.29	480.07	477.91	2.84	ppb
Sodium	23-2	242985.82	248755.20	242420.15	244720.39	1.43	ppb
Strontium	86-1	11908.54	12476.26	12286.28	12223.69	2.36	ppb
Strontium	88-1	11875.15	12187.67	12367.75	12143.52	2.05	ppb
Sulfur	34-1	8922.51	9432.41	9525.75	9293.56	3.49	ppb
Terbium	159-1				98		%
Terbium	159-2				95		%
Thallium	203-1	477.24	505.02	500.34	494.20	3.01	ppb
Thallium	205-1	480.30	493.90	496.79	490.33	1.80	ppb
Tin	118-1	467.43	498.66	492.10	486.06	3.39	ppb
Titanium	47-1	4614.48	4828.48	4883.62	4775.53	2.98	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV045 Instrumnet Name : P7
Client Sample ID : CCV045 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:59:06 DataFile Name : 083CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	456.34	474.29	487.14	472.59	3.27	ppb
Vanadium	51-2	500.90	508.07	501.84	503.60	0.77	ppb
Yttrium	89-1				92		%
Yttrium	89-2				86		%
Zinc	66-2	4763.71	4756.81	4700.97	4740.50	0.73	ppb
Zirconium	90-1	468.89	487.42	492.96	483.09	2.61	ppb
Zirconium	91-1	470.24	494.29	497.52	487.35	3.06	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCB045Instrumnet Name :P7

Client Sample ID :CCB045Dilution Factor :1

Date & Time Acquired :2024-12-23 16:03:31DataFile Name :084CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.41	1.40	1.62	1.48	8.32	ppb
Antimony	121-1	0.09	0.10	0.08	0.09	10.60	ppb
Arsenic	75-2	-0.02	-0.01	0.01	-0.01		ppb
Barium	135-1	0.11	0.07	0.05	0.08	36.31	ppb
Barium	137-1	0.12	0.06	0.05	0.08	46.92	ppb
Beryllium	9-1	0.04	0.05	0.03	0.04	31.61	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	0.01	0.00	0.01	98.99	ppb
Cadmium	106-1	-1.52	-2.66	-2.06	-2.08		ppb
Cadmium	111-1	-0.09	-0.18	-0.13	-0.13		ppb
Calcium	43-1	11.01	10.76	6.14	9.31	29.48	ppb
Calcium	44-1	6.75	4.05	1.74	4.18	59.97	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.00	0.02	0.01	103.31	ppb
Cobalt	59-2	0.01	0.01	0.00	0.01	59.14	ppb
Copper	63-2	0.19	0.18	0.16	0.18	9.41	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				99		%
Indium	115-1				99		%
Indium	115-2				92		%
Iron	56-2	3.75	2.90	2.64	3.10	18.73	ppb
Iron	57-2	3.51	3.38	3.52	3.47	2.23	ppb
Iron	54-2	2.79	1.95	3.35	2.70	26.06	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB045 Instrumnet Name : P7
Client Sample ID : CCB045 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 16:03:31 DataFile Name : 084CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.16	0.14	0.11	0.14	18.28	ppb
Lead	207-1	0.17	0.13	0.12	0.14	17.76	ppb
Lead	208-1	0.17	0.14	0.12	0.14	17.91	ppb
Lithium	6-1				105		%
Magnesium	24-2	4.02	3.73	3.49	3.75	7.18	ppb
Manganese	55-2	0.15	0.14	0.13	0.14	5.51	ppb
Molybdenum	94-1	0.30	0.18	0.17	0.22	33.34	ppb
Molybdenum	95-1	0.27	0.20	0.13	0.20	36.14	ppb
Molybdenum	96-1	0.27	0.18	0.13	0.20	37.08	ppb
Molybdenum	97-1	0.27	0.20	0.15	0.21	30.82	ppb
Molybdenum	98-1	0.29	0.19	0.14	0.20	36.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	0.00	-0.02	-0.01		ppb
Phosphorus	31-2	-14.13	-17.52	-17.69	-16.45		ppb
Potassium	39-2	7.32	7.90	7.61	7.61	3.84	ppb
Rhodium	103-1				97		%
Rhodium	103-2				93		%
Scandium	45-1				94		%
Scandium	45-2				86		%
Selenium	82-1	-0.66	-0.89	-0.65	-0.73		ppb
Selenium	77-2	0.02	-0.16	-0.16	-0.10		ppb
Selenium	78-2	-0.29	0.56	-1.92	-0.55		ppb
Silicon	28-1	-17.51	-15.45	-14.53	-15.83		ppb
Silver	107-1	0.03	0.03	0.02	0.03	21.68	ppb
Silver	109-1	0.03	0.03	0.02	0.03	15.08	ppb
Sodium	23-2	15.71	14.88	15.15	15.24	2.80	ppb
Strontium	86-1	-0.28	0.43	-0.17	-0.01		ppb
Strontium	88-1	0.53	0.37	0.29	0.40	30.02	ppb
Sulfur	34-1	-433.46	-230.47	-144.47	-269.47		ppb
Terbium	159-1				103		%
Terbium	159-2				98		%
Thallium	203-1	0.04	0.04	0.03	0.04	7.24	ppb
Thallium	205-1	0.04	0.03	0.04	0.04	8.03	ppb
Tin	118-1	0.02	0.03	0.02	0.02	37.59	ppb
Titanium	47-1	0.21	0.19	0.08	0.16	44.51	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCB045

Instrumnet Name :

P7

Client Sample ID :

CCB045

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 16:03:31

DataFile Name :

084CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.01	0.01	0.01	32.28	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	17.14	ppb
Yttrium	89-1				97		%
Yttrium	89-2				90		%
Zinc	66-2	0.33	0.24	0.43	0.33	28.31	ppb
Zirconium	90-1	0.03	0.02	0.02	0.03	11.76	ppb
Zirconium	91-1	0.04	0.03	0.02	0.03	27.44	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16DL2X5

Instrumnet Name :

P7

Client Sample ID :

ME28Q4

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 16:16:47

DataFile Name :

087SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1874.08	1849.46	1861.89	1861.81	0.66	ppb
Antimony	121-1	0.68	0.70	0.69	0.69	1.43	ppb
Arsenic	75-2	5.58	5.86	5.71	5.71	2.42	ppb
Barium	135-1	48.07	48.52	48.44	48.34	0.50	ppb
Barium	137-1	48.46	49.39	49.18	49.01	1.00	ppb
Beryllium	9-1	0.35	0.37	0.37	0.36	2.57	ppb
Bismuth	209-1				113		%
Bismuth	209-2				110		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	3.70	3.77	3.51	3.66	3.68	ppb
Cadmium	106-1	1.30	0.79	1.34	1.14	26.65	ppb
Cadmium	111-1	1.71	1.74	1.69	1.71	1.40	ppb
Calcium	43-1	21015.14	21421.68	21479.56	21305.46	1.19	ppb
Calcium	44-1	20399.12	20580.97	20431.12	20470.41	0.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	106.17	104.92	105.28	105.46	0.61	ppb
Cobalt	59-2	2.90	2.92	2.94	2.92	0.67	ppb
Copper	63-2	24.23	24.26	24.26	24.25	0.06	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				98		%
Iron	56-2	65537.47	65436.60	65369.91	65447.99	0.13	ppb
Iron	57-2	65311.97	64538.79	65231.82	65027.53	0.65	ppb
Iron	54-2	66501.38	65812.52	65648.84	65987.58	0.69	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:16:47 DataFile Name : 087SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1069.32	1076.33	1093.00	1079.55	1.13	ppb
Lead	207-1	1003.05	1008.19	1029.42	1013.55	1.38	ppb
Lead	208-1	1027.09	1030.58	1045.70	1034.46	0.96	ppb
Lithium	6-1				101		%
Magnesium	24-2	3860.20	3845.90	3817.51	3841.20	0.57	ppb
Manganese	55-2	2188.51	2169.10	2188.64	2182.08	0.52	ppb
Molybdenum	94-1	4.06	4.11	4.05	4.07	0.84	ppb
Molybdenum	95-1	3.58	3.60	3.62	3.60	0.54	ppb
Molybdenum	96-1	4.14	4.23	4.13	4.17	1.22	ppb
Molybdenum	97-1	3.44	3.59	3.57	3.53	2.34	ppb
Molybdenum	98-1	3.54	3.61	3.62	3.59	1.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	53.37	53.88	53.29	53.51	0.60	ppb
Phosphorus	31-2	215.20	206.73	211.86	211.26	2.02	ppb
Potassium	39-2	395.65	394.67	400.45	396.92	0.78	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				99		%
Scandium	45-2				95		%
Selenium	82-1	-0.29	-0.03	-0.30	-0.21		ppb
Selenium	77-2	0.17	0.64	0.82	0.54	62.31	ppb
Selenium	78-2	-0.70	-0.68	-1.23	-0.87		ppb
Silicon	28-1	519.42	531.88	527.65	526.32	1.20	ppb
Silver	107-1	1.09	1.10	1.11	1.10	0.57	ppb
Silver	109-1	1.09	1.09	1.08	1.09	0.25	ppb
Sodium	23-2	142.33	140.40	140.63	141.12	0.75	ppb
Strontium	86-1	684.74	680.01	702.70	689.15	1.74	ppb
Strontium	88-1	684.57	686.34	696.72	689.21	0.95	ppb
Sulfur	34-1	173.62	247.17	215.52	212.10	17.39	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.40	0.39	0.41	0.40	2.03	ppb
Thallium	205-1	0.40	0.40	0.41	0.40	0.98	ppb
Tin	118-1	3.41	3.52	3.48	3.47	1.66	ppb
Titanium	47-1	76.19	77.95	77.57	77.24	1.20	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16DL2X5

Instrumnet Name :

P7

Client Sample ID :

ME28Q4

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 16:16:47

DataFile Name :

087SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.16	0.16	0.16	0.16	0.93	ppb
Vanadium	51-2	10.63	10.64	10.39	10.55	1.32	ppb
Yttrium	89-1				102		%
Yttrium	89-2				98		%
Zinc	66-2	5066.13	4992.66	4975.38	5011.39	0.96	ppb
Zirconium	90-1	0.57	0.60	0.59	0.59	2.85	ppb
Zirconium	91-1	0.61	0.60	0.62	0.61	1.96	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-17DL2X5

Instrumnet Name :

P7

Client Sample ID :

ME28Q4D

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 16:20:43

DataFile Name :

088SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1906.82	1902.33	1898.19	1902.45	0.23	ppb
Antimony	121-1	0.71	0.74	0.74	0.73	2.49	ppb
Arsenic	75-2	6.05	6.21	5.99	6.09	1.81	ppb
Barium	135-1	48.27	50.39	49.40	49.35	2.15	ppb
Barium	137-1	49.64	50.17	50.31	50.04	0.71	ppb
Beryllium	9-1	0.35	0.39	0.37	0.37	4.68	ppb
Bismuth	209-1				112		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	3.12	3.33	3.47	3.31	5.31	ppb
Cadmium	106-1	2.18	2.48	1.46	2.04	25.79	ppb
Cadmium	111-1	1.86	1.82	1.87	1.85	1.54	ppb
Calcium	43-1	21357.28	21852.82	21863.97	21691.35	1.33	ppb
Calcium	44-1	20963.80	20946.02	21186.38	21032.07	0.64	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	107.99	107.16	107.65	107.60	0.39	ppb
Cobalt	59-2	2.99	3.00	2.99	3.00	0.27	ppb
Copper	63-2	24.74	24.61	24.72	24.69	0.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				103		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	56-2	67262.24	66315.99	66755.62	66777.95	0.71	ppb
Iron	57-2	66586.67	65998.28	66277.75	66287.56	0.44	ppb
Iron	54-2	67908.76	67098.47	66960.38	67322.54	0.76	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-17DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4D Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:20:43 DataFile Name : 088SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1111.29	1097.31	1100.78	1103.13	0.66	ppb
Lead	207-1	1038.09	1035.63	1045.51	1039.74	0.49	ppb
Lead	208-1	1056.92	1056.28	1063.17	1058.79	0.36	ppb
Lithium	6-1				100		%
Magnesium	24-2	3943.34	3901.00	3927.35	3923.90	0.54	ppb
Manganese	55-2	2251.21	2209.27	2216.21	2225.56	1.01	ppb
Molybdenum	94-1	4.23	4.20	4.24	4.22	0.53	ppb
Molybdenum	95-1	3.66	3.66	3.76	3.70	1.57	ppb
Molybdenum	96-1	4.30	4.30	4.33	4.31	0.43	ppb
Molybdenum	97-1	3.60	3.70	3.77	3.69	2.35	ppb
Molybdenum	98-1	3.72	3.69	3.70	3.70	0.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	54.10	54.20	54.63	54.31	0.51	ppb
Phosphorus	31-2	207.94	218.70	206.68	211.11	3.13	ppb
Potassium	39-2	406.99	403.57	407.18	405.91	0.50	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				96		%
Selenium	82-1	-0.40	-0.28	-0.41	-0.37		ppb
Selenium	77-2	0.65	1.31	1.13	1.03	33.38	ppb
Selenium	78-2	-1.18	0.02	-0.86	-0.67		ppb
Silicon	28-1	526.77	539.22	535.93	533.97	1.21	ppb
Silver	107-1	1.13	1.14	1.13	1.13	0.33	ppb
Silver	109-1	1.10	1.10	1.10	1.10	0.19	ppb
Sodium	23-2	142.58	142.94	144.13	143.22	0.56	ppb
Strontium	86-1	698.69	704.85	709.70	704.41	0.78	ppb
Strontium	88-1	705.54	708.62	708.70	707.62	0.25	ppb
Sulfur	34-1	150.68	208.80	189.86	183.11	16.19	ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.40	0.41	0.41	0.41	1.39	ppb
Thallium	205-1	0.42	0.42	0.41	0.42	1.76	ppb
Tin	118-1	3.90	3.51	3.63	3.68	5.33	ppb
Titanium	47-1	77.53	79.92	80.44	79.30	1.96	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-17DL2X5

Instrumnet Name :

P7

Client Sample ID :

ME28Q4D

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 16:20:43

DataFile Name :

088SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.17	0.16	0.17	0.17	1.39	ppb
Vanadium	51-2	10.67	10.87	10.78	10.78	0.92	ppb
Yttrium	89-1				102		%
Yttrium	89-2				98		%
Zinc	66-2	5156.89	5106.19	5071.40	5111.49	0.84	ppb
Zirconium	90-1	0.60	0.62	0.61	0.61	1.38	ppb
Zirconium	91-1	0.63	0.59	0.61	0.61	2.84	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16LDL2X25

Instrumnet Name :

P7

Client Sample ID :

ME28Q4L

Dilution Factor :

25

Date & Time Acquired :

2024-12-23 16:23:49

DataFile Name :

089SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	375.10	370.74	376.59	374.15	0.81	ppb
Antimony	121-1	0.14	0.15	0.15	0.15	6.43	ppb
Arsenic	75-2	1.28	1.26	1.08	1.21	8.93	ppb
Barium	135-1	9.69	9.63	9.83	9.72	1.05	ppb
Barium	137-1	9.62	9.73	10.01	9.79	2.01	ppb
Beryllium	9-1	0.10	0.05	0.05	0.07	45.77	ppb
Bismuth	209-1				110		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.55	0.65	0.78	0.66	17.33	ppb
Cadmium	106-1	-0.52	-0.57	0.00	-0.36		ppb
Cadmium	111-1	0.29	0.29	0.33	0.30	7.26	ppb
Calcium	43-1	4222.58	4255.28	4305.12	4260.99	0.98	ppb
Calcium	44-1	4041.41	4107.97	4078.48	4075.95	0.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.14	20.99	21.02	21.05	0.37	ppb
Cobalt	59-2	0.58	0.55	0.59	0.57	3.63	ppb
Copper	63-2	5.66	5.59	5.74	5.66	1.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				102		%
Indium	115-1				102		%
Indium	115-2				98		%
Iron	56-2	13293.10	13042.79	13061.79	13132.56	1.06	ppb
Iron	57-2	13126.40	13054.62	12935.23	13038.75	0.74	ppb
Iron	54-2	13276.27	13224.36	13235.33	13245.32	0.21	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16LDL2X25 Instrumnet Name : P7
Client Sample ID : ME28Q4L Dilution Factor : 25
Date & Time Acquired : 2024-12-23 16:23:49 DataFile Name : 089SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	219.48	223.99	226.17	223.21	1.53	ppb
Lead	207-1	206.12	209.47	214.30	209.96	1.96	ppb
Lead	208-1	209.68	215.21	216.62	213.84	1.72	ppb
Lithium	6-1				99		%
Magnesium	24-2	745.18	739.61	746.00	743.60	0.47	ppb
Manganese	55-2	445.68	436.40	442.40	441.49	1.07	ppb
Molybdenum	94-1	0.76	0.82	0.78	0.79	4.05	ppb
Molybdenum	95-1	0.72	0.74	0.76	0.74	2.14	ppb
Molybdenum	96-1	0.80	0.83	0.86	0.83	3.37	ppb
Molybdenum	97-1	0.76	0.69	0.70	0.72	5.60	ppb
Molybdenum	98-1	0.68	0.73	0.69	0.70	3.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.83	10.84	10.80	10.83	0.19	ppb
Phosphorus	31-2	27.18	26.15	34.70	29.34	15.91	ppb
Potassium	39-2	82.65	81.12	82.26	82.01	0.97	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				99		%
Scandium	45-2				95		%
Selenium	82-1	-0.15	-0.65	-0.83	-0.54		ppb
Selenium	77-2	0.17	0.01	0.01	0.06	157.75	ppb
Selenium	78-2	-0.62	-0.78	-1.36	-0.92		ppb
Silicon	28-1	106.90	110.45	109.05	108.80	1.64	ppb
Silver	107-1	0.22	0.22	0.21	0.22	1.64	ppb
Silver	109-1	0.22	0.22	0.22	0.22	0.43	ppb
Sodium	23-2	31.97	31.89	32.54	32.13	1.10	ppb
Strontium	86-1	136.03	138.16	139.79	137.99	1.37	ppb
Strontium	88-1	135.07	138.33	139.13	137.51	1.57	ppb
Sulfur	34-1	-108.08	-45.30	1.18	-50.73		ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.08	0.08	0.08	0.08	3.88	ppb
Thallium	205-1	0.08	0.09	0.09	0.09	5.64	ppb
Tin	118-1	0.67	0.70	0.71	0.69	3.00	ppb
Titanium	47-1	15.42	15.85	15.72	15.66	1.42	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16LDL2X25

Instrumnet Name :

P7

Client Sample ID :

ME28Q4L

Dilution Factor :

25

Date & Time Acquired :

2024-12-23 16:23:49

DataFile Name :

089SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.03	0.04	0.03	8.99	ppb
Vanadium	51-2	2.13	2.09	2.09	2.10	1.12	ppb
Yttrium	89-1				102		%
Yttrium	89-2				97		%
Zinc	66-2	979.19	976.32	976.22	977.24	0.17	ppb
Zirconium	90-1	0.11	0.12	0.12	0.12	3.71	ppb
Zirconium	91-1	0.12	0.12	0.11	0.12	7.19	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-18DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4S Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:27:36 DataFile Name : 090SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1911.83	1911.32	1924.31	1915.82	0.38	ppb
Antimony	121-1	4.73	4.96	5.48	5.06	7.61	ppb
Arsenic	75-2	7.13	7.30	7.77	7.40	4.49	ppb
Barium	135-1	123.11	130.91	142.10	132.04	7.23	ppb
Barium	137-1	127.31	133.12	143.58	134.67	6.12	ppb
Beryllium	9-1	2.39	2.62	2.63	2.55	5.33	ppb
Bismuth	209-1				111		%
Bismuth	209-2				110		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	5.19	5.43	5.68	5.43	4.49	ppb
Cadmium	106-1	3.83	3.12	4.67	3.87	20.12	ppb
Cadmium	111-1	3.83	3.86	4.49	4.06	9.18	ppb
Calcium	43-1	20209.33	21088.03	23112.11	21469.82	6.93	ppb
Calcium	44-1	19657.20	20432.07	22068.94	20719.41	5.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	112.38	112.83	112.65	112.62	0.20	ppb
Cobalt	59-2	24.22	24.19	24.37	24.26	0.41	ppb
Copper	63-2	34.22	34.18	34.43	34.28	0.38	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				103		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	64896.21	65323.22	64821.42	65013.62	0.42	ppb
Iron	57-2	63697.50	64579.00	64315.77	64197.43	0.70	ppb
Iron	54-2	65530.66	65318.07	65544.65	65464.46	0.19	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-18DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4S Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:27:36 DataFile Name : 090SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1070.08	1085.43	1153.69	1103.07	4.03	ppb
Lead	207-1	990.94	1008.77	1085.90	1028.54	4.91	ppb
Lead	208-1	1008.17	1032.84	1107.64	1049.55	4.93	ppb
Lithium	6-1				99		%
Magnesium	24-2	3727.42	3765.20	3791.23	3761.28	0.85	ppb
Manganese	55-2	2163.66	2181.99	2179.73	2175.13	0.46	ppb
Molybdenum	94-1	3.86	3.98	4.28	4.04	5.32	ppb
Molybdenum	95-1	3.45	3.63	3.91	3.67	6.35	ppb
Molybdenum	96-1	4.05	4.10	4.47	4.21	5.36	ppb
Molybdenum	97-1	3.52	3.58	3.86	3.65	5.00	ppb
Molybdenum	98-1	3.41	3.64	3.86	3.64	6.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	74.52	74.81	74.69	74.67	0.20	ppb
Phosphorus	31-2	198.75	199.30	206.29	201.45	2.09	ppb
Potassium	39-2	386.75	391.78	394.77	391.10	1.04	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				99		%
Scandium	45-2				96		%
Selenium	82-1	3.96	4.36	4.50	4.27	6.59	ppb
Selenium	77-2	5.58	4.17	5.14	4.96	14.59	ppb
Selenium	78-2	4.64	2.49	4.09	3.74	29.85	ppb
Silicon	28-1	500.22	522.06	573.40	531.89	7.06	ppb
Silver	107-1	3.16	3.35	3.57	3.36	6.13	ppb
Silver	109-1	3.07	3.37	3.55	3.33	7.20	ppb
Sodium	23-2	134.82	138.04	138.35	137.07	1.43	ppb
Strontium	86-1	665.30	693.66	732.69	697.22	4.85	ppb
Strontium	88-1	658.56	688.95	737.56	695.03	5.73	ppb
Sulfur	34-1	60.54	200.18	569.27	276.67	95.00	ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	2.13	2.19	2.41	2.24	6.53	ppb
Thallium	205-1	2.13	2.19	2.37	2.23	5.55	ppb
Tin	118-1	3.31	3.50	3.75	3.52	6.35	ppb
Titanium	47-1	73.72	77.42	85.22	78.79	7.45	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-18DL2X5

Instrumnet Name :

P7

Client Sample ID :

ME28Q4S

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 16:27:36

DataFile Name :

090SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.16	0.16	0.17	0.17	4.27	ppb
Vanadium	51-2	31.72	32.00	32.08	31.93	0.60	ppb
Yttrium	89-1				101		%
Yttrium	89-2				99		%
Zinc	66-2	5029.47	4981.33	5012.40	5007.73	0.49	ppb
Zirconium	90-1	0.56	0.59	0.61	0.59	4.54	ppb
Zirconium	91-1	0.57	0.62	0.65	0.61	6.78	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-15DLX2

Instrumnet Name :

P7

Client Sample ID :

ME28Q3

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 16:30:41

DataFile Name :

091SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4489.56	4439.15	4430.70	4453.14	0.71	ppb
Antimony	121-1	1.78	1.84	1.82	1.81	1.51	ppb
Arsenic	75-2	13.85	14.26	14.54	14.22	2.45	ppb
Barium	135-1	135.37	134.98	137.88	136.08	1.15	ppb
Barium	137-1	137.83	137.88	139.32	138.35	0.61	ppb
Beryllium	9-1	0.87	0.96	0.97	0.94	5.86	ppb
Bismuth	209-1				110		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	4.93	5.59	5.67	5.40	7.55	ppb
Cadmium	106-1	4.68	4.78	4.49	4.65	3.18	ppb
Cadmium	111-1	4.80	4.78	5.00	4.86	2.45	ppb
Calcium	43-1	48230.87	48630.61	49610.36	48823.95	1.45	ppb
Calcium	44-1	48273.20	49246.34	49398.81	48972.78	1.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	273.92	271.54	274.71	273.39	0.60	ppb
Cobalt	59-2	7.35	7.34	7.32	7.33	0.20	ppb
Copper	63-2	61.58	61.36	61.54	61.49	0.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	56-2	167042.98	165800.17	167107.94	166650.36	0.44	ppb
Iron	57-2	167499.57	165518.06	166683.66	166567.10	0.60	ppb
Iron	54-2	168814.27	167659.51	168241.66	168238.48	0.34	ppb
Krypton	83-1						cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-15DLX2

Instrumnet Name :

P7

Client Sample ID :

ME28Q3

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 16:30:41

DataFile Name :

091SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	959.99	943.98	963.99	955.98	1.11	ppb
Lead	207-1	883.73	882.86	878.39	881.66	0.33	ppb
Lead	208-1	906.53	898.49	907.29	904.10	0.54	ppb
Lithium	6-1				101		%
Magnesium	24-2	7825.39	7695.58	7673.94	7731.64	1.06	ppb
Manganese	55-2	6977.28	6957.53	7018.22	6984.34	0.44	ppb
Molybdenum	94-1	11.50	11.48	11.44	11.47	0.27	ppb
Molybdenum	95-1	10.33	10.10	10.45	10.29	1.74	ppb
Molybdenum	96-1	11.89	11.61	11.88	11.79	1.36	ppb
Molybdenum	97-1	10.56	10.32	10.36	10.41	1.25	ppb
Molybdenum	98-1	10.45	10.18	10.30	10.31	1.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	145.82	145.45	145.94	145.74	0.18	ppb
Phosphorus	31-2	577.09	572.73	601.39	583.74	2.65	ppb
Potassium	39-2	871.44	873.47	872.63	872.51	0.12	ppb
Rhodium	103-1				100		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				94		%
Selenium	82-1	0.34	0.23	0.01	0.19	86.16	ppb
Selenium	77-2	1.46	1.29	1.64	1.46	11.64	ppb
Selenium	78-2	-0.20	-0.10	-0.08	-0.13		ppb
Silicon	28-1	1269.77	1281.64	1297.67	1283.02	1.09	ppb
Silver	107-1	2.90	2.89	2.91	2.90	0.39	ppb
Silver	109-1	2.89	2.85	2.89	2.88	0.77	ppb
Sodium	23-2	321.26	320.36	324.41	322.01	0.66	ppb
Strontium	86-1	1629.65	1620.15	1646.86	1632.22	0.83	ppb
Strontium	88-1	1676.61	1678.45	1684.48	1679.85	0.24	ppb
Sulfur	34-1	485.67	538.66	559.47	527.93	7.21	ppb
Terbium	159-1				105		%
Terbium	159-2				101		%
Thallium	203-1	1.23	1.19	1.22	1.21	1.92	ppb
Thallium	205-1	1.23	1.22	1.24	1.23	0.58	ppb
Tin	118-1	8.74	8.66	8.87	8.76	1.24	ppb
Titanium	47-1	286.46	292.44	293.28	290.73	1.28	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-15DLX2

Instrumnet Name :

P7

Client Sample ID :

ME28Q3

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 16:30:41

DataFile Name :

091SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.38	0.37	0.37	0.37	1.70	ppb
Vanadium	51-2	31.87	31.54	31.73	31.71	0.53	ppb
Yttrium	89-1				103		%
Yttrium	89-2				98		%
Zinc	66-2	2652.55	2648.46	2622.90	2641.30	0.61	ppb
Zirconium	90-1	1.59	1.59	1.62	1.60	1.09	ppb
Zirconium	91-1	1.69	1.58	1.60	1.63	3.67	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16DLX2

Instrumnet Name :

P7

Client Sample ID :

ME28Q4

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 16:33:45

DataFile Name :

092SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4773.50	4852.58	4805.54	4810.54	0.83	ppb
Antimony	121-1	1.76	1.78	1.79	1.77	0.90	ppb
Arsenic	75-2	14.97	14.53	14.86	14.79	1.56	ppb
Barium	135-1	119.07	121.24	123.62	121.31	1.87	ppb
Barium	137-1	121.43	123.80	125.04	123.42	1.49	ppb
Beryllium	9-1	0.91	0.94	0.90	0.92	1.95	ppb
Bismuth	209-1				119		%
Bismuth	209-2				113		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	7.41	9.06	7.69	8.05	10.94	ppb
Cadmium	106-1	7.89	7.10	8.27	7.75	7.71	ppb
Cadmium	111-1	4.59	4.47	4.81	4.62	3.76	ppb
Calcium	43-1	50091.07	52130.30	51384.00	51201.79	2.02	ppb
Calcium	44-1	50395.60	52340.29	51007.87	51247.92	1.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	268.18	272.64	265.96	268.93	1.27	ppb
Cobalt	59-2	7.51	7.34	7.49	7.45	1.23	ppb
Copper	63-2	59.20	59.97	59.83	59.67	0.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				96		%
Iron	56-2	164469.98	164694.86	165306.97	164823.94	0.26	ppb
Iron	57-2	162175.70	164628.32	162322.76	163042.26	0.84	ppb
Iron	54-2	165273.44	165603.79	163873.62	164916.95	0.56	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q4 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:33:45 DataFile Name : 092SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2540.54	2606.95	2550.07	2565.85	1.40	ppb
Lead	207-1	2367.77	2449.64	2454.61	2424.00	2.01	ppb
Lead	208-1	2420.49	2496.10	2486.41	2467.67	1.67	ppb
Lithium	6-1				100		%
Magnesium	24-2	9531.36	9605.42	9572.97	9569.92	0.39	ppb
Manganese	55-2	5468.87	5552.33	5453.55	5491.58	0.97	ppb
Molybdenum	94-1	9.90	10.27	10.26	10.14	2.10	ppb
Molybdenum	95-1	8.85	8.92	9.18	8.98	1.92	ppb
Molybdenum	96-1	10.23	10.45	10.31	10.33	1.05	ppb
Molybdenum	97-1	8.82	9.02	9.09	8.98	1.54	ppb
Molybdenum	98-1	8.80	8.95	8.97	8.91	1.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	132.52	133.14	134.00	133.22	0.56	ppb
Phosphorus	31-2	565.33	552.79	539.38	552.50	2.35	ppb
Potassium	39-2	986.55	990.07	990.16	988.93	0.21	ppb
Rhodium	103-1				99		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				93		%
Selenium	82-1	0.56	0.28	-0.05	0.26	116.58	ppb
Selenium	77-2	1.46	1.78	1.65	1.63	10.02	ppb
Selenium	78-2	-1.33	-1.27	-0.22	-0.94		ppb
Silicon	28-1	1312.63	1336.53	1306.76	1318.64	1.20	ppb
Silver	107-1	2.71	2.73	2.79	2.74	1.44	ppb
Silver	109-1	2.67	2.72	2.72	2.70	1.06	ppb
Sodium	23-2	346.72	348.73	348.02	347.82	0.29	ppb
Strontium	86-1	1678.67	1699.20	1706.61	1694.83	0.85	ppb
Strontium	88-1	1760.40	1753.19	1775.56	1763.05	0.65	ppb
Sulfur	34-1	675.28	860.47	810.54	782.10	12.25	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	0.96	0.97	0.97	0.97	0.92	ppb
Thallium	205-1	0.93	0.98	0.97	0.96	2.63	ppb
Tin	118-1	8.49	8.71	8.78	8.66	1.74	ppb
Titanium	47-1	192.15	197.76	192.59	194.17	1.61	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16DLX2

Instrumnet Name :

P7

Client Sample ID :

ME28Q4

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 16:33:45

DataFile Name :

092SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.38	0.40	0.40	0.39	3.18	ppb
Vanadium	51-2	26.51	26.69	26.69	26.63	0.38	ppb
Yttrium	89-1				103		%
Yttrium	89-2				97		%
Zinc	66-2	12601.37	12673.49	12595.88	12623.58	0.34	ppb
Zirconium	90-1	1.46	1.52	1.47	1.48	1.88	ppb
Zirconium	91-1	1.49	1.52	1.50	1.50	1.04	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-17DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q4D Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:36:52 DataFile Name : 093SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4794.49	4739.83	4791.23	4775.18	0.64	ppb
Antimony	121-1	1.76	1.69	1.74	1.73	2.05	ppb
Arsenic	75-2	13.95	14.24	14.13	14.11	1.03	ppb
Barium	135-1	120.71	120.88	120.06	120.55	0.36	ppb
Barium	137-1	122.58	122.60	121.49	122.23	0.52	ppb
Beryllium	9-1	1.00	0.89	0.90	0.93	6.40	ppb
Bismuth	209-1				117		%
Bismuth	209-2				113		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	8.41	7.72	7.96	8.03	4.38	ppb
Cadmium	106-1	6.92	7.17	7.73	7.27	5.76	ppb
Cadmium	111-1	4.45	4.62	4.74	4.60	3.17	ppb
Calcium	43-1	51478.08	51489.40	51759.93	51575.80	0.31	ppb
Calcium	44-1	51358.04	51741.92	51664.44	51588.14	0.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	275.23	269.69	269.47	271.46	1.20	ppb
Cobalt	59-2	7.39	7.45	7.44	7.43	0.42	ppb
Copper	63-2	59.66	59.77	59.86	59.76	0.16	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				94		%
Iron	56-2	163686.65	165684.12	165008.55	164793.10	0.62	ppb
Iron	57-2	163257.02	165070.83	163021.73	163783.19	0.68	ppb
Iron	54-2	162982.61	168331.97	166371.22	165895.27	1.63	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-17DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q4D Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:36:52 DataFile Name : 093SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2616.83	2593.44	2627.46	2612.58	0.67	ppb
Lead	207-1	2454.25	2436.82	2453.21	2448.09	0.40	ppb
Lead	208-1	2496.80	2497.69	2504.92	2499.80	0.18	ppb
Lithium	6-1				100		%
Magnesium	24-2	9464.77	9553.22	9523.48	9513.83	0.47	ppb
Manganese	55-2	5406.07	5538.97	5487.93	5477.66	1.22	ppb
Molybdenum	94-1	10.31	10.43	10.23	10.32	1.00	ppb
Molybdenum	95-1	8.95	9.03	8.98	8.99	0.44	ppb
Molybdenum	96-1	10.35	10.34	10.34	10.34	0.08	ppb
Molybdenum	97-1	8.90	9.20	8.99	9.03	1.73	ppb
Molybdenum	98-1	8.96	9.03	9.04	9.01	0.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	133.44	134.50	133.99	133.98	0.39	ppb
Phosphorus	31-2	550.31	541.62	522.29	538.07	2.67	ppb
Potassium	39-2	982.05	994.89	983.22	986.72	0.72	ppb
Rhodium	103-1				100		%
Rhodium	103-2				95		%
Scandium	45-1				98		%
Scandium	45-2				92		%
Selenium	82-1	-0.05	0.19	0.16	0.10	128.93	ppb
Selenium	77-2	1.13	1.15	1.81	1.37	28.37	ppb
Selenium	78-2	-0.72	0.22	-0.22	-0.24		ppb
Silicon	28-1	1316.97	1325.28	1325.19	1322.48	0.36	ppb
Silver	107-1	2.73	2.68	2.72	2.71	1.09	ppb
Silver	109-1	2.70	2.69	2.69	2.70	0.20	ppb
Sodium	23-2	343.75	347.44	344.60	345.26	0.56	ppb
Strontium	86-1	1717.69	1723.42	1718.88	1720.00	0.18	ppb
Strontium	88-1	1786.10	1758.38	1778.41	1774.30	0.81	ppb
Sulfur	34-1	740.33	726.49	762.75	743.19	2.46	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	1.01	0.92	0.96	0.96	4.33	ppb
Thallium	205-1	0.98	0.99	0.98	0.98	0.35	ppb
Tin	118-1	8.65	8.74	8.65	8.68	0.62	ppb
Titanium	47-1	193.54	196.39	197.26	195.73	0.99	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-17DLX2

Instrumnet Name :

P7

Client Sample ID :

ME28Q4D

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 16:36:52

DataFile Name :

093SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.40	0.40	0.40	0.40	1.17	ppb
Vanadium	51-2	26.61	26.63	26.75	26.66	0.29	ppb
Yttrium	89-1				103		%
Yttrium	89-2				97		%
Zinc	66-2	12556.62	12551.24	12615.35	12574.40	0.28	ppb
Zirconium	90-1	1.47	1.54	1.52	1.51	2.49	ppb
Zirconium	91-1	1.49	1.51	1.58	1.53	2.93	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5154-16LDLX10Instrumnet Name :P7

Client Sample ID :ME28Q4LDilution Factor :10

Date & Time Acquired :2024-12-23 16:40:05DataFile Name :094SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	946.62	949.11	948.88	948.20	0.14	ppb
Antimony	121-1	0.34	0.35	0.35	0.35	1.78	ppb
Arsenic	75-2	2.96	2.89	2.86	2.90	1.82	ppb
Barium	135-1	23.75	24.79	24.20	24.24	2.15	ppb
Barium	137-1	24.25	25.22	24.59	24.69	1.98	ppb
Beryllium	9-1	0.14	0.18	0.19	0.17	13.72	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.47	1.87	1.93	1.76	14.13	ppb
Cadmium	106-1	0.49	0.92	0.80	0.74	30.60	ppb
Cadmium	111-1	0.90	0.87	0.86	0.88	2.58	ppb
Calcium	43-1	10538.19	10741.48	11120.83	10800.17	2.74	ppb
Calcium	44-1	10117.19	10355.82	10340.27	10271.09	1.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	53.80	53.54	53.64	53.66	0.24	ppb
Cobalt	59-2	1.55	1.47	1.49	1.50	2.94	ppb
Copper	63-2	12.92	12.97	12.98	12.96	0.24	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				95		%
Iron	56-2	33672.89	33719.44	33497.28	33629.87	0.35	ppb
Iron	57-2	33252.96	32956.48	32774.19	32994.55	0.73	ppb
Iron	54-2	33931.70	33674.18	33728.43	33778.11	0.40	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16LDLX10 Instrumnet Name : P7
Client Sample ID : ME28Q4L Dilution Factor : 10
Date & Time Acquired : 2024-12-23 16:40:05 DataFile Name : 094SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	547.51	556.57	559.52	554.53	1.13	ppb
Lead	207-1	513.68	528.48	533.53	525.23	1.96	ppb
Lead	208-1	523.79	537.80	539.64	533.74	1.62	ppb
Lithium	6-1				100		%
Magnesium	24-2	1891.27	1878.67	1876.95	1882.30	0.42	ppb
Manganese	55-2	1116.09	1117.53	1114.37	1116.00	0.14	ppb
Molybdenum	94-1	2.01	2.06	2.13	2.07	2.85	ppb
Molybdenum	95-1	1.74	1.85	1.84	1.81	3.29	ppb
Molybdenum	96-1	2.06	2.14	2.07	2.09	2.04	ppb
Molybdenum	97-1	1.66	1.84	1.85	1.78	6.16	ppb
Molybdenum	98-1	1.72	1.82	1.87	1.80	4.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.69	27.61	27.12	27.47	1.11	ppb
Phosphorus	31-2	87.65	98.51	97.96	94.71	6.46	ppb
Potassium	39-2	201.21	201.26	205.27	202.58	1.15	ppb
Rhodium	103-1				99		%
Rhodium	103-2				96		%
Scandium	45-1				96		%
Scandium	45-2				91		%
Selenium	82-1	-0.05	-0.53	-0.61	-0.39		ppb
Selenium	77-2	0.01	0.01	0.01	0.01	8.86	ppb
Selenium	78-2	-1.03	-0.90	0.01	-0.64		ppb
Silicon	28-1	258.46	264.03	275.88	266.12	3.34	ppb
Silver	107-1	0.52	0.54	0.57	0.54	4.88	ppb
Silver	109-1	0.54	0.56	0.53	0.54	2.45	ppb
Sodium	23-2	77.40	77.37	77.83	77.53	0.33	ppb
Strontium	86-1	340.44	348.81	350.65	346.63	1.57	ppb
Strontium	88-1	337.89	351.78	353.64	347.77	2.47	ppb
Sulfur	34-1	-92.49	-73.37	66.13	-33.24		ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	0.20	0.21	0.20	0.20	3.47	ppb
Thallium	205-1	0.20	0.21	0.21	0.20	2.10	ppb
Tin	118-1	1.69	1.75	1.74	1.73	1.92	ppb
Titanium	47-1	38.26	38.83	39.97	39.02	2.23	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16LDLX10

Instrumnet Name :

P7

Client Sample ID :

ME28Q4L

Dilution Factor :

10

Date & Time Acquired :

2024-12-23 16:40:05

DataFile Name :

094SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.08	0.09	0.08	0.08	8.29	ppb
Vanadium	51-2	5.25	5.36	5.27	5.29	1.13	ppb
Yttrium	89-1				99		%
Yttrium	89-2				94		%
Zinc	66-2	2620.67	2611.36	2584.60	2605.55	0.72	ppb
Zirconium	90-1	0.29	0.29	0.30	0.29	2.12	ppb
Zirconium	91-1	0.30	0.31	0.31	0.31	2.22	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-18DLX2

Instrumnet Name :

P7

Client Sample ID :

ME28Q4S

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 16:43:13

DataFile Name :

095SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5667.69	5276.09	4885.32	5276.36	7.41	ppb
Antimony	121-1	12.12	12.13	12.46	12.24	1.56	ppb
Arsenic	75-2	22.72	19.68	18.82	20.40	10.05	ppb
Barium	135-1	319.85	319.26	322.61	320.58	0.56	ppb
Barium	137-1	343.41	347.97	346.14	345.84	0.66	ppb
Beryllium	9-1	6.08	5.97	6.18	6.07	1.76	ppb
Bismuth	209-1				118		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	13.21	13.07	14.23	13.50	4.66	ppb
Cadmium	106-1	12.57	12.26	13.43	12.75	4.78	ppb
Cadmium	111-1	9.93	9.74	10.18	9.95	2.22	ppb
Calcium	43-1	51038.39	51240.16	52375.85	51551.47	1.40	ppb
Calcium	44-1	50724.64	50466.86	51436.54	50876.01	0.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	334.28	303.85	292.48	310.20	6.97	ppb
Cobalt	59-2	71.08	64.28	61.31	65.56	7.64	ppb
Copper	63-2	98.65	88.92	84.71	90.76	7.88	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				96		%
Indium	115-1				100		%
Indium	115-2				89		%
Iron	56-2	190511.02	172055.89	165683.40	176083.44	7.32	ppb
Iron	57-2	188729.06	169825.66	162095.62	173550.11	7.89	ppb
Iron	54-2	191124.00	173844.83	163592.87	176187.23	7.90	ppb
Krypton	83-1						cps

LB Number :LB134068Operator :Jaswal

Lab Sample ID :P5154-18DLX2Instrumnet Name :P7

Client Sample ID :ME28Q4SDilution Factor :2

Date & Time Acquired :2024-12-23 16:43:13DataFile Name :095SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2537.25	2576.38	2583.99	2565.88	0.98	ppb
Lead	207-1	2410.27	2397.42	2422.26	2409.98	0.52	ppb
Lead	208-1	2446.68	2463.79	2475.03	2461.83	0.58	ppb
Lithium	6-1				102		%
Magnesium	24-2	10986.57	9969.16	9616.71	10190.82	6.98	ppb
Manganese	55-2	6370.47	5776.74	5555.52	5900.91	7.14	ppb
Molybdenum	94-1	10.18	10.24	10.15	10.19	0.45	ppb
Molybdenum	95-1	8.91	8.99	9.00	8.97	0.54	ppb
Molybdenum	96-1	10.19	10.34	10.38	10.31	0.96	ppb
Molybdenum	97-1	8.80	9.10	8.98	8.96	1.70	ppb
Molybdenum	98-1	8.82	8.84	8.98	8.88	0.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	215.62	196.57	185.58	199.26	7.63	ppb
Phosphorus	31-2	607.20	578.99	548.31	578.17	5.09	ppb
Potassium	39-2	1146.91	1035.65	980.61	1054.39	8.03	ppb
Rhodium	103-1				99		%
Rhodium	103-2				90		%
Scandium	45-1				97		%
Scandium	45-2				86		%
Selenium	82-1	11.45	11.12	10.95	11.17	2.30	ppb
Selenium	77-2	17.66	14.63	11.19	14.49	22.32	ppb
Selenium	78-2	14.74	12.26	10.72	12.58	16.11	ppb
Silicon	28-1	1306.71	1311.31	1329.09	1315.70	0.90	ppb
Silver	107-1	7.98	8.13	8.08	8.06	0.91	ppb
Silver	109-1	8.05	8.02	8.06	8.04	0.27	ppb
Sodium	23-2	400.90	357.57	342.53	367.00	8.26	ppb
Strontium	86-1	1697.15	1711.42	1714.28	1707.62	0.54	ppb
Strontium	88-1	1768.57	1766.39	1787.79	1774.25	0.66	ppb
Sulfur	34-1	731.40	773.15	769.21	757.92	3.04	ppb
Terbium	159-1				104		%
Terbium	159-2				94		%
Thallium	203-1	5.22	5.26	5.40	5.29	1.85	ppb
Thallium	205-1	5.17	5.30	5.34	5.27	1.76	ppb
Tin	118-1	8.42	8.52	8.66	8.53	1.41	ppb
Titanium	47-1	191.99	194.84	196.65	194.49	1.21	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-18DLX2

Instrumnet Name :

P7

Client Sample ID :

ME28Q4S

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 16:43:13

DataFile Name :

095SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.39	0.40	0.40	0.40	2.10	ppb
Vanadium	51-2	94.04	84.64	80.06	86.25	8.27	ppb
Yttrium	89-1				101		%
Yttrium	89-2				90		%
Zinc	66-2	14820.92	13205.18	12464.88	13497.00	8.93	ppb
Zirconium	90-1	1.46	1.47	1.49	1.47	1.05	ppb
Zirconium	91-1	1.49	1.51	1.52	1.51	0.89	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCV046

Instrumnet Name :

P7

Client Sample ID :

CCV046

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 16:46:17

DataFile Name :

096CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49842.42	49878.24	49924.21	49881.62	0.08	ppb
Antimony	121-1	482.72	485.42	483.51	483.88	0.29	ppb
Arsenic	75-2	487.35	483.63	477.54	482.84	1.03	ppb
Barium	135-1	2456.92	2441.42	2434.47	2444.27	0.47	ppb
Barium	137-1	2441.16	2435.74	2433.49	2436.80	0.16	ppb
Beryllium	9-1	473.39	480.51	468.42	474.11	1.28	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	477.20	481.81	474.31	477.77	0.79	ppb
Cadmium	106-1	474.97	474.69	475.89	475.18	0.13	ppb
Cadmium	111-1	453.30	454.06	453.53	453.63	0.09	ppb
Calcium	43-1	252363.52	254583.96	250610.75	252519.41	0.79	ppb
Calcium	44-1	250870.40	252451.15	251613.43	251644.99	0.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	496.56	491.82	499.66	496.01	0.80	ppb
Cobalt	59-2	487.29	492.41	490.05	489.92	0.52	ppb
Copper	63-2	4776.78	4832.51	4738.77	4782.69	0.99	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				94		%
Indium	115-1				87		%
Indium	115-2				82		%
Iron	56-2	127558.94	129168.18	126706.23	127811.12	0.98	ppb
Iron	57-2	126561.69	127351.41	127782.64	127231.91	0.49	ppb
Iron	54-2	128569.69	127743.74	126373.39	127562.27	0.87	ppb
Krypton	83-1						cps

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCV046Instrumnet Name :P7

Client Sample ID :CCV046Dilution Factor :1

Date & Time Acquired :2024-12-23 16:46:17DataFile Name :096CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2460.38	2487.03	2537.59	2495.00	1.57	ppb
Lead	207-1	2452.78	2471.04	2516.89	2480.24	1.33	ppb
Lead	208-1	2441.16	2488.01	2522.50	2483.89	1.64	ppb
Lithium	6-1				96		%
Magnesium	24-2	236022.48	235124.42	234329.30	235158.73	0.36	ppb
Manganese	55-2	4952.28	4976.92	4893.36	4940.85	0.87	ppb
Molybdenum	94-1	4854.95	4996.28	4891.35	4914.20	1.49	ppb
Molybdenum	95-1	4836.51	4981.88	4873.70	4897.36	1.54	ppb
Molybdenum	96-1	4880.19	4985.23	4920.88	4928.76	1.07	ppb
Molybdenum	97-1	4877.69	5013.84	4891.35	4927.63	1.52	ppb
Molybdenum	98-1	4859.93	5011.50	4829.36	4900.26	1.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	462.37	461.32	461.42	461.70	0.13	ppb
Phosphorus	31-2	9796.93	9786.53	9614.75	9732.74	1.05	ppb
Potassium	39-2	121349.94	121310.98	122197.27	121619.40	0.41	ppb
Rhodium	103-1				83		%
Rhodium	103-2				80		%
Scandium	45-1				87		%
Scandium	45-2				79		%
Selenium	82-1	468.69	478.14	472.90	473.25	1.00	ppb
Selenium	77-2	468.90	478.29	470.56	472.58	1.06	ppb
Selenium	78-2	484.23	481.85	468.35	478.14	1.79	ppb
Silicon	28-1	195.82	201.71	201.06	199.53	1.62	ppb
Silver	107-1	483.98	472.53	474.71	477.07	1.27	ppb
Silver	109-1	475.44	473.88	477.14	475.49	0.34	ppb
Sodium	23-2	243903.27	244180.08	245533.17	244538.84	0.36	ppb
Strontium	86-1	12123.57	12345.15	12375.94	12281.55	1.12	ppb
Strontium	88-1	12211.26	12333.51	12338.21	12294.33	0.59	ppb
Sulfur	34-1	9548.45	9646.79	9530.37	9575.20	0.65	ppb
Terbium	159-1				97		%
Terbium	159-2				93		%
Thallium	203-1	496.84	493.75	508.11	499.56	1.51	ppb
Thallium	205-1	491.32	490.57	503.91	495.27	1.51	ppb
Tin	118-1	486.15	485.68	492.45	488.09	0.77	ppb
Titanium	47-1	4871.47	4883.02	4840.50	4865.00	0.45	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV046 Instrumnet Name : P7
Client Sample ID : CCV046 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 16:46:17 DataFile Name : 096CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	480.21	490.12	493.94	488.09	1.45	ppb
Vanadium	51-2	500.07	503.24	502.21	501.84	0.32	ppb
Yttrium	89-1				90		%
Yttrium	89-2				83		%
Zinc	66-2	4799.98	4730.24	4789.18	4773.13	0.79	ppb
Zirconium	90-1	481.18	492.95	490.60	488.24	1.28	ppb
Zirconium	91-1	484.33	501.60	495.43	493.79	1.77	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB046 Instrumnet Name : P7
Client Sample ID : CCB046 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 16:48:59 DataFile Name : 097CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.89	0.54	0.45	0.63	36.62	ppb
Antimony	121-1	0.25	0.20	0.17	0.21	19.69	ppb
Arsenic	75-2	-0.01	-0.01	0.01	0.00		ppb
Barium	135-1	0.35	0.18	0.08	0.20	67.60	ppb
Barium	137-1	0.38	0.14	0.09	0.20	75.50	ppb
Beryllium	9-1	0.11	0.08	0.05	0.08	36.02	ppb
Bismuth	209-1				109		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.06	-0.02	0.03	0.03	151.13	ppb
Cadmium	106-1	-1.97	-1.57	-1.66	-1.73		ppb
Cadmium	111-1	-0.06	-0.08	-0.10	-0.08		ppb
Calcium	43-1	48.62	19.32	11.87	26.60	73.03	ppb
Calcium	44-1	37.65	15.71	6.43	19.93	80.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.04	-0.02	-0.02		ppb
Cobalt	59-2	0.01	0.01	0.00	0.01	67.12	ppb
Copper	63-2	1.01	1.02	0.97	1.00	2.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				99		%
Indium	115-1				95		%
Indium	115-2				91		%
Iron	56-2	3.19	2.71	2.60	2.83	11.00	ppb
Iron	57-2	3.93	2.42	3.29	3.21	23.67	ppb
Iron	54-2	3.34	2.38	3.73	3.15	22.04	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB046 Instrumnet Name : P7
Client Sample ID : CCB046 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 16:48:59 DataFile Name : 097CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.42	0.26	0.18	0.29	42.98	ppb
Lead	207-1	0.42	0.24	0.18	0.28	44.31	ppb
Lead	208-1	0.43	0.25	0.18	0.29	44.49	ppb
Lithium	6-1				101		%
Magnesium	24-2	4.17	3.22	3.24	3.54	15.33	ppb
Manganese	55-2	0.18	0.16	0.14	0.16	10.86	ppb
Molybdenum	94-1	0.86	0.46	0.29	0.54	54.15	ppb
Molybdenum	95-1	0.84	0.40	0.27	0.50	59.22	ppb
Molybdenum	96-1	0.83	0.41	0.25	0.50	59.60	ppb
Molybdenum	97-1	0.87	0.42	0.24	0.51	63.10	ppb
Molybdenum	98-1	0.82	0.43	0.28	0.51	55.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	-0.03	-0.03	-0.02		ppb
Phosphorus	31-2	-20.01	-18.27	-17.92	-18.73		ppb
Potassium	39-2	10.21	11.00	9.95	10.39	5.26	ppb
Rhodium	103-1				92		%
Rhodium	103-2				91		%
Scandium	45-1				88		%
Scandium	45-2				82		%
Selenium	82-1	-0.79	-0.61	-0.64	-0.68		ppb
Selenium	77-2	-0.16	0.02	0.03	-0.04		ppb
Selenium	78-2	-1.23	-1.16	-1.15	-1.18		ppb
Silicon	28-1	-16.40	-16.67	-16.26	-16.44		ppb
Silver	107-1	0.11	0.06	0.04	0.07	51.87	ppb
Silver	109-1	0.10	0.05	0.04	0.06	48.27	ppb
Sodium	23-2	18.27	17.59	16.22	17.36	6.02	ppb
Strontium	86-1	1.47	0.72	-0.08	0.71	109.71	ppb
Strontium	88-1	1.86	0.78	0.47	1.04	70.36	ppb
Sulfur	34-1	-157.10	-248.44	-115.18	-173.57		ppb
Terbium	159-1				100		%
Terbium	159-2				97		%
Thallium	203-1	0.10	0.06	0.05	0.07	35.86	ppb
Thallium	205-1	0.10	0.06	0.05	0.07	37.68	ppb
Tin	118-1	0.11	0.04	0.04	0.07	55.94	ppb
Titanium	47-1	0.75	0.31	0.17	0.41	74.15	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCB046

Instrumnet Name :

P7

Client Sample ID :

CCB046

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 16:48:59

DataFile Name :

097CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.06	0.03	0.02	0.04	58.86	ppb
Vanadium	51-2	0.01	0.00	0.01	0.01	41.18	ppb
Yttrium	89-1				92		%
Yttrium	89-2				88		%
Zinc	66-2	0.31	0.34	0.30	0.32	6.84	ppb
Zirconium	90-1	0.09	0.05	0.04	0.06	42.40	ppb
Zirconium	91-1	0.11	0.06	0.05	0.07	45.64	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16A

Instrumnet Name :

P7

Client Sample ID :

ME28Q4A

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 17:29:12

DataFile Name :

098SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9960.47	9840.42	9855.63	9885.51	0.66	ppb
Antimony	121-1	3.62	3.74	3.73	3.70	1.78	ppb
Arsenic	75-2	29.64	29.40	29.46	29.50	0.43	ppb
Barium	135-1	249.06	253.04	254.68	252.26	1.15	ppb
Barium	137-1	251.06	257.27	260.31	256.21	1.84	ppb
Beryllium	9-1	1.97	1.99	2.05	2.01	2.20	ppb
Bismuth	209-1				127		%
Bismuth	209-2				125		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	17.93	17.70	17.60	17.74	0.95	ppb
Cadmium	106-1	16.12	17.44	17.23	16.93	4.18	ppb
Cadmium	111-1	9.26	9.79	9.93	9.66	3.69	ppb
Calcium	43-1	104927.82	108082.72	108981.46	107330.67	1.98	ppb
Calcium	44-1	104620.58	107532.07	109953.44	107368.70	2.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	564.48	560.79	568.56	564.61	0.69	ppb
Cobalt	59-2	15.67	15.43	15.42	15.51	0.90	ppb
Copper	63-2	406.97	398.28	411.33	405.53	1.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				105		%
Indium	115-1				103		%
Indium	115-2				97		%
Iron	56-2	344828.48	345299.44	347405.30	345844.41	0.40	ppb
Iron	57-2	346266.40	341036.92	345860.33	344387.88	0.84	ppb
Iron	54-2	345156.73	348299.10	347722.04	347059.29	0.48	ppb
Krypton	83-1						cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16A

Instrumnet Name :

P7

Client Sample ID :

ME28Q4A

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 17:29:12

DataFile Name :

098SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4919.37	4953.70	4984.57	4952.54	0.66	ppb
Lead	207-1	4618.66	4662.49	4638.86	4640.00	0.47	ppb
Lead	208-1	4709.62	4759.22	4743.01	4737.28	0.53	ppb
Lithium	6-1				96		%
Magnesium	24-2	20033.75	19640.78	19850.31	19841.62	0.99	ppb
Manganese	55-2	11496.07	11519.20	11611.44	11542.24	0.53	ppb
Molybdenum	94-1	20.70	20.98	21.33	21.01	1.50	ppb
Molybdenum	95-1	18.26	18.50	19.02	18.59	2.09	ppb
Molybdenum	96-1	21.18	21.24	21.83	21.42	1.70	ppb
Molybdenum	97-1	18.35	18.54	18.93	18.61	1.59	ppb
Molybdenum	98-1	18.28	18.45	18.89	18.54	1.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	845.63	839.18	840.83	841.88	0.40	ppb
Phosphorus	31-2	1180.97	1147.31	1125.15	1151.14	2.44	ppb
Potassium	39-2	1990.31	1996.12	1980.81	1989.08	0.39	ppb
Rhodium	103-1				101		%
Rhodium	103-2				98		%
Scandium	45-1				104		%
Scandium	45-2				96		%
Selenium	82-1	1.53	0.95	0.93	1.13	30.14	ppb
Selenium	77-2	2.97	4.07	4.37	3.80	19.47	ppb
Selenium	78-2	1.09	1.93	0.67	1.23	52.16	ppb
Silicon	28-1	2627.53	2718.46	2806.86	2717.62	3.30	ppb
Silver	107-1	5.58	5.72	5.82	5.70	2.16	ppb
Silver	109-1	5.43	5.60	5.69	5.57	2.41	ppb
Sodium	23-2	716.31	699.64	704.42	706.79	1.21	ppb
Strontium	86-1	3465.25	3517.12	3608.94	3530.44	2.06	ppb
Strontium	88-1	3662.09	3708.15	3717.57	3695.94	0.80	ppb
Sulfur	34-1	1750.19	1840.46	1980.94	1857.20	6.26	ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	1.87	1.93	1.92	1.91	1.77	ppb
Thallium	205-1	1.90	1.91	1.92	1.91	0.57	ppb
Tin	118-1	17.86	18.27	18.42	18.18	1.59	ppb
Titanium	47-1	390.81	407.88	412.16	403.62	2.80	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16A

Instrumnet Name :

P7

Client Sample ID :

ME28Q4A

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 17:29:12

DataFile Name :

098SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.75	0.77	0.75	0.76	1.23	ppb
Vanadium	51-2	55.83	56.06	55.94	55.94	0.21	ppb
Yttrium	89-1				107		%
Yttrium	89-2				101		%
Zinc	66-2	26191.32	25761.22	25994.51	25982.35	0.83	ppb
Zirconium	90-1	3.02	3.05	3.17	3.08	2.54	ppb
Zirconium	91-1	3.15	3.05	3.18	3.12	2.20	ppb

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCV047Instrumnet Name :P7

Client Sample ID :CCV047Dilution Factor :1

Date & Time Acquired :2024-12-23 17:32:11DataFile Name :099SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48923.08	48405.68	48532.86	48620.54	0.55	ppb
Antimony	121-1	478.80	488.22	500.48	489.17	2.22	ppb
Arsenic	75-2	478.77	469.77	475.65	474.73	0.96	ppb
Barium	135-1	2399.64	2437.73	2521.50	2452.96	2.54	ppb
Barium	137-1	2401.25	2466.37	2536.86	2468.16	2.75	ppb
Beryllium	9-1	478.00	502.81	505.32	495.38	3.05	ppb
Bismuth	209-1				96		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	466.38	478.96	486.89	477.41	2.17	ppb
Cadmium	106-1	472.05	479.37	497.31	482.91	2.69	ppb
Cadmium	111-1	449.62	452.57	471.40	457.86	2.58	ppb
Calcium	43-1	247432.98	251915.19	261719.99	253689.39	2.88	ppb
Calcium	44-1	245559.33	250141.01	261027.08	252242.47	3.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	496.02	490.57	492.77	493.12	0.56	ppb
Cobalt	59-2	485.97	483.96	488.86	486.26	0.51	ppb
Copper	63-2	4768.55	4752.67	4725.63	4748.95	0.46	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				96		%
Indium	115-1				87		%
Indium	115-2				83		%
Iron	56-2	126722.16	126133.76	127164.03	126673.32	0.41	ppb
Iron	57-2	125932.33	124834.61	126690.14	125819.03	0.74	ppb
Iron	54-2	125966.34	126070.02	125711.97	125916.11	0.15	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV047 Instrumnet Name : P7
Client Sample ID : CCV047 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 17:32:11 DataFile Name : 099SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2457.31	2526.55	2601.56	2528.47	2.85	ppb
Lead	207-1	2425.73	2491.88	2568.34	2495.31	2.86	ppb
Lead	208-1	2425.21	2491.12	2577.34	2497.89	3.05	ppb
Lithium	6-1				93		%
Magnesium	24-2	236497.08	232801.13	235966.29	235088.17	0.85	ppb
Manganese	55-2	4907.27	4853.58	4911.25	4890.70	0.66	ppb
Molybdenum	94-1	4720.23	4865.01	5099.59	4894.94	3.91	ppb
Molybdenum	95-1	4720.29	4884.92	5097.39	4900.87	3.86	ppb
Molybdenum	96-1	4715.16	4916.86	5123.37	4918.47	4.15	ppb
Molybdenum	97-1	4725.03	4936.22	5089.52	4916.92	3.72	ppb
Molybdenum	98-1	4700.27	4905.17	5045.18	4883.54	3.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	458.13	454.26	457.10	456.50	0.44	ppb
Phosphorus	31-2	9789.16	9750.26	9814.52	9784.64	0.33	ppb
Potassium	39-2	121060.43	121151.23	121761.69	121324.45	0.31	ppb
Rhodium	103-1				83		%
Rhodium	103-2				80		%
Scandium	45-1				88		%
Scandium	45-2				80		%
Selenium	82-1	449.17	467.15	492.62	469.64	4.65	ppb
Selenium	77-2	479.31	465.73	471.53	472.19	1.44	ppb
Selenium	78-2	472.94	463.52	479.82	472.09	1.73	ppb
Silicon	28-1	425.49	438.86	455.75	440.03	3.45	ppb
Silver	107-1	469.83	478.93	493.43	480.73	2.48	ppb
Silver	109-1	468.86	472.56	490.35	477.26	2.41	ppb
Sodium	23-2	242867.84	239625.69	244505.09	242332.88	1.02	ppb
Strontium	86-1	11933.00	12157.24	12604.65	12231.63	2.80	ppb
Strontium	88-1	11911.02	12275.74	12693.84	12293.53	3.19	ppb
Sulfur	34-1	9370.43	9660.52	10260.84	9763.93	4.65	ppb
Terbium	159-1				97		%
Terbium	159-2				94		%
Thallium	203-1	493.29	498.77	514.89	502.32	2.23	ppb
Thallium	205-1	494.80	501.00	513.94	503.24	1.94	ppb
Tin	118-1	475.17	483.75	502.41	487.11	2.86	ppb
Titanium	47-1	4704.54	4822.69	4991.09	4839.44	2.98	ppb

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCV047

Instrumnet Name :

P7

Client Sample ID :

CCV047

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 17:32:11

DataFile Name :

099SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	468.16	480.57	503.56	484.09	3.71	ppb
Vanadium	51-2	507.35	491.27	489.73	496.12	1.97	ppb
Yttrium	89-1				91		%
Yttrium	89-2				84		%
Zinc	66-2	4717.01	4661.40	4758.55	4712.32	1.03	ppb
Zirconium	90-1	473.75	486.08	504.94	488.26	3.22	ppb
Zirconium	91-1	477.27	489.77	511.97	493.00	3.57	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB047 Instrumnet Name : P7
Client Sample ID : CCB047 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 17:34:55 DataFile Name : 100SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.63	1.12	0.96	1.24	28.53	ppb
Antimony	121-1	0.27	0.21	0.17	0.22	23.14	ppb
Arsenic	75-2	-0.01	0.00	-0.02	-0.01		ppb
Barium	135-1	0.54	0.22	0.14	0.30	71.03	ppb
Barium	137-1	0.51	0.25	0.14	0.30	63.94	ppb
Beryllium	9-1	0.14	0.09	0.07	0.10	33.98	ppb
Bismuth	209-1				108		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.20	0.14	0.00	0.11	89.98	ppb
Cadmium	106-1	-1.48	-1.91	-2.05	-1.81		ppb
Cadmium	111-1	0.03	-0.09	-0.11	-0.06		ppb
Calcium	43-1	54.03	26.41	17.94	32.79	57.55	ppb
Calcium	44-1	50.19	23.30	12.33	28.61	68.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.02	0.00	-0.01		ppb
Cobalt	59-2	0.02	0.01	0.00	0.01	77.35	ppb
Copper	63-2	1.07	0.98	1.06	1.04	4.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				99		%
Indium	115-1				93		%
Indium	115-2				90		%
Iron	56-2	5.41	4.64	4.00	4.68	15.07	ppb
Iron	57-2	3.74	5.50	3.76	4.33	23.26	ppb
Iron	54-2	6.62	5.35	7.69	6.55	17.89	ppb
Krypton	83-1						cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB047 Instrumnet Name : P7
Client Sample ID : CCB047 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 17:34:55 DataFile Name : 100SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.60	0.31	0.22	0.38	51.63	ppb
Lead	207-1	0.52	0.32	0.20	0.35	46.49	ppb
Lead	208-1	0.55	0.31	0.22	0.36	48.07	ppb
Lithium	6-1				99		%
Magnesium	24-2	6.40	5.65	4.45	5.50	17.81	ppb
Manganese	55-2	0.20	0.20	0.18	0.20	6.17	ppb
Molybdenum	94-1	1.04	0.57	0.37	0.66	52.21	ppb
Molybdenum	95-1	1.04	0.59	0.35	0.66	52.63	ppb
Molybdenum	96-1	1.55	0.55	0.35	0.82	78.57	ppb
Molybdenum	97-1	1.66	0.58	0.32	0.85	83.29	ppb
Molybdenum	98-1	1.61	0.55	0.36	0.84	80.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	0.01	0.02	0.00	1879.15	ppb
Phosphorus	31-2	-16.51	-14.70	-19.33	-16.85		ppb
Potassium	39-2	12.47	11.43	11.13	11.67	6.01	ppb
Rhodium	103-1				92		%
Rhodium	103-2				91		%
Scandium	45-1				88		%
Scandium	45-2				82		%
Selenium	82-1	0.00	-0.38	-0.37	-0.25		ppb
Selenium	77-2	-0.16	0.03	-0.16	-0.10		ppb
Selenium	78-2	-2.65	-0.87	-1.57	-1.70		ppb
Silicon	28-1	-16.11	-16.40	-15.24	-15.92		ppb
Silver	107-1	0.17	0.08	0.05	0.10	64.07	ppb
Silver	109-1	0.15	0.06	0.05	0.09	60.83	ppb
Sodium	23-2	21.40	19.66	19.13	20.06	5.93	ppb
Strontium	86-1	2.17	1.07	0.47	1.24	69.32	ppb
Strontium	88-1	2.33	1.26	0.72	1.44	57.12	ppb
Sulfur	34-1	-179.61	-163.23	-111.96	-151.60		ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	0.12	0.08	0.05	0.09	39.29	ppb
Thallium	205-1	0.12	0.08	0.06	0.09	35.50	ppb
Tin	118-1	0.13	0.08	0.03	0.08	60.78	ppb
Titanium	47-1	0.87	0.50	0.29	0.55	53.62	ppb

LB Number :LB134068

Operator :Jaswal

Lab Sample ID :CCB047

Instrumnet Name :P7

Client Sample ID :CCB047

Dilution Factor :1

Date & Time Acquired :2024-12-23 17:34:55

DataFile Name :100SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.08	0.05	0.02	0.05	53.78	ppb
Vanadium	51-2	0.00	0.01	0.01	0.01	41.25	ppb
Yttrium	89-1				91		%
Yttrium	89-2				88		%
Zinc	66-2	0.45	0.48	0.42	0.45	6.75	ppb
Zirconium	90-1	0.12	0.08	0.05	0.08	42.14	ppb
Zirconium	91-1	0.13	0.09	0.05	0.09	42.18	ppb

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 10:59:16 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	133	173	147	151	13.48	cps
Antimony	121-1	23	23	23	23	0.00	cps
Arsenic	75-2	0	20	13	11	91.66	cps
Barium	135-1	70	80	43	64	29.41	cps
Barium	137-1	133	110	103	116	13.64	cps
Beryllium	9-1	50	60	60	57	10.19	cps
Bismuth	209-1	7951849	7837903	7890828	7893527	0.72	cps
Bismuth	209-2	6976952	6890811	6895473	6921079	0.70	cps
Bromine	81-1	15728	15458	15829	15672	1.22	cps
Bromine	81-2	203	183	163	183	10.91	cps
Cadmium	108-1	13	10	7	10	33.30	cps
Cadmium	106-1	3580	3460	3497	3513	1.75	cps
Cadmium	111-1	2510	2432	2460	2467	1.61	cps
Calcium	43-1	283	300	360	314	12.82	cps
Calcium	44-1	11591	11785	11678	11685	0.83	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1540	1583	1580	1568	1.54	cps
Cobalt	59-2	100	110	127	112	12.01	cps
Copper	63-2	723	737	740	733	1.20	cps
Dysprosium	156-1	17	20	17	18	10.81	cps
Dysprosium	156-2	10	3	7	7	50.03	cps
Erbium	164-1	40	50	53	48	14.52	cps
Erbium	164-2	33	37	37	36	5.42	cps
Gadolinium	160-1	53	67	93	71	28.64	cps
Gadolinium	160-2	297	440	413	383	19.89	cps
Holmium	165-1	14009303	13856685	13640244	13835410	1.34	cps
Holmium	165-2	10201488	9971341	10014918	10062582	1.21	cps
Indium	115-1	11977318	11920606	11726536	11874820	1.11	cps
Indium	115-2	4510664	4419738	4493666	4474690	1.08	cps
Iron	56-2	20003	19947	20120	20023	0.44	cps
Iron	57-2	887	973	890	917	5.36	cps
Iron	54-2	2470	2474	2567	2504	2.19	cps
Krypton	83-1	297	237	243	259	12.70	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S0 Instrumnet Name : P7
Client Sample ID : S0 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 10:59:16 DataFile Name : 004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	363	377	333	358	6.20	cps
Lead	207-1	260	233	307	267	13.92	cps
Lead	208-1	1377	1253	1280	1303	4.98	cps
Lithium	6-1	1726347	1660938	1695405	1694230	1.93	cps
Magnesium	24-2	587	617	543	582	6.33	cps
Manganese	55-2	237	287	263	262	9.54	cps
Molybdenum	94-1	350	347	327	341	3.70	cps
Molybdenum	95-1	163	150	157	157	4.26	cps
Molybdenum	96-1	287	240	253	260	9.25	cps
Molybdenum	97-1	93	90	110	98	10.96	cps
Molybdenum	98-1	243	233	280	252	9.74	cps
Neodymium	150-1	7	0	13	7	99.98	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	400	430	367	399	7.94	cps
Phosphorus	31-2	167	197	170	178	9.25	cps
Potassium	39-2	51363	51581	51554	51499	0.23	cps
Rhodium	103-1	11014207	10988398	10970906	10991170	0.20	cps
Rhodium	103-2	6802775	6804933	6771686	6793131	0.27	cps
Scandium	45-1	6643827	6664526	6619232	6642528	0.34	cps
Scandium	45-2	594270	593749	588822	592280	0.51	cps
Selenium	82-1	184	194	169	182	6.94	cps
Selenium	77-2	0	0	10	3	173.21	cps
Selenium	78-2	530	613	440	528	16.43	cps
Silicon	28-1	846039	849567	854650	850085	0.51	cps
Silver	107-1	70	107	70	82	25.75	cps
Silver	109-1	40	67	53	53	25.00	cps
Sodium	23-2	22470	22507	21652	22209	2.18	cps
Strontium	86-1	457	393	543	464	16.21	cps
Strontium	88-1	360	360	310	343	8.41	cps
Sulfur	34-1	196969	195956	196895	196606	0.29	cps
Terbium	159-1	14336934	14257282	14225417	14273211	0.40	cps
Terbium	159-2	10179293	10141589	10011633	10110839	0.87	cps
Thallium	203-1	327	267	237	277	16.57	cps
Thallium	205-1	673	620	647	647	4.12	cps
Tin	118-1	1340	1480	1387	1402	5.08	cps
Titanium	47-1	87	107	107	100	11.55	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S00

Instrumnet Name :

P7

Client Sample ID :

S0

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 10:59:16

DataFile Name :

004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	13	3	10	9	57.30	cps
Vanadium	51-2	10	17	7	11	45.82	cps
Yttrium	89-1	14021496	13750525	13899346	13890456	0.98	cps
Yttrium	89-2	3829861	3788340	3866900	3828367	1.03	cps
Zinc	66-2	220	247	270	246	10.19	cps
Zirconium	90-1	580	687	733	667	11.79	cps
Zirconium	91-1	110	177	117	134	27.31	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:05:51 DataFile Name : 006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6298	6405	6601	6435	2.39	cps
Antimony	121-1	26889	27894	27099	27294	1.94	cps
Arsenic	75-2	723	767	823	771	6.50	cps
Barium	135-1	33980	33710	34001	33897	0.48	cps
Barium	137-1	58499	58429	58911	58613	0.44	cps
Beryllium	9-1	1910	1703	1857	1823	5.88	cps
Bismuth	209-1	8051830	7918237	7855801	7941956	1.26	cps
Bismuth	209-2	7021615	6936202	6999637	6985818	0.63	cps
Bromine	81-1	15178	15879	15084	15380	2.82	cps
Bromine	81-2	170	193	170	178	7.58	cps
Cadmium	108-1	180	283	273	246	23.21	cps
Cadmium	106-1	4057	3634	3771	3821	5.66	cps
Cadmium	111-1	6255	6133	5995	6127	2.12	cps
Calcium	43-1	20661	20604	20087	20451	1.55	cps
Calcium	44-1	332649	331517	336245	333470	0.74	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	13886	13633	13319	13613	2.09	cps
Cobalt	59-2	10137	10053	9907	10032	1.16	cps
Copper	63-2	13853	13957	13606	13805	1.30	cps
Dysprosium	156-1	30	17	33	27	33.06	cps
Dysprosium	156-2	17	13	7	12	41.65	cps
Erbium	164-1	53	60	37	50	24.03	cps
Erbium	164-2	50	43	47	47	7.15	cps
Gadolinium	160-1	70	67	67	68	2.84	cps
Gadolinium	160-2	323	423	387	378	13.39	cps
Holmium	165-1	13841377	13708279	13752334	13767330	0.49	cps
Holmium	165-2	10270954	10088216	10195521	10184897	0.90	cps
Indium	115-1	11856362	11894711	11721375	11824149	0.77	cps
Indium	115-2	4522600	4489120	4462989	4491569	0.67	cps
Iron	56-2	306697	307850	307015	307187	0.19	cps
Iron	57-2	8232	8072	8452	8252	2.31	cps
Iron	54-2	19256	18725	18882	18954	1.44	cps
Krypton	83-1	227	190	253	223	14.24	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:05:51 DataFile Name : 006CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9183	9573	9330	9362	2.11	cps
Lead	207-1	8319	8349	8349	8339	0.21	cps
Lead	208-1	37577	38231	37400	37736	1.16	cps
Lithium	6-1	1689351	1719961	1747528	1718947	1.69	cps
Magnesium	24-2	271932	270369	271024	271109	0.29	cps
Manganese	55-2	5004	5384	5111	5166	3.80	cps
Molybdenum	94-1	27977	28545	29336	28619	2.39	cps
Molybdenum	95-1	33896	34684	34501	34360	1.20	cps
Molybdenum	96-1	38474	38554	39493	38840	1.46	cps
Molybdenum	97-1	21803	21917	21406	21708	1.24	cps
Molybdenum	98-1	55883	55525	54672	55360	1.12	cps
Neodymium	150-1	10	10	10	10	0.00	cps
Neodymium	150-2	3	0	7	3	100.05	cps
Nickel	60-2	2887	2564	2897	2783	6.82	cps
Phosphorus	31-2	577	590	703	623	11.17	cps
Potassium	39-2	401941	398777	400542	400420	0.40	cps
Rhodium	103-1	11020172	11079650	10847424	10982415	1.10	cps
Rhodium	103-2	6870745	6762545	6769914	6801068	0.89	cps
Scandium	45-1	6663741	6497829	6602219	6587930	1.27	cps
Scandium	45-2	600583	596721	597835	598380	0.33	cps
Selenium	82-1	1297	1245	1258	1266	2.14	cps
Selenium	77-2	143	123	133	133	7.50	cps
Selenium	78-2	773	953	907	878	10.64	cps
Silicon	28-1	888017	1142370	1159736	1063374	14.30	cps
Silver	107-1	17107	17444	17317	17289	0.98	cps
Silver	109-1	17040	16162	17067	16756	3.07	cps
Sodium	23-2	434530	434518	433793	434280	0.10	cps
Strontium	86-1	4694	4781	4931	4802	2.49	cps
Strontium	88-1	39576	39005	38701	39094	1.14	cps
Sulfur	34-1	198859	201959	206300	202373	1.85	cps
Terbium	159-1	14201927	14176090	14154609	14177542	0.17	cps
Terbium	159-2	10288500	10294716	10236657	10273291	0.31	cps
Thallium	203-1	11852	11432	11819	11701	2.00	cps
Thallium	205-1	27621	26559	27862	27348	2.53	cps
Tin	118-1	58970	59251	58237	58819	0.89	cps
Titanium	47-1	9366	8713	8996	9025	3.63	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S02 Instrumnet Name : P7
Client Sample ID : S02 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:05:51 DataFile Name : 006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	34267	34942	33980	34396	1.44	cps
Vanadium	51-2	26643	26340	26490	26491	0.57	cps
Yttrium	89-1	13851695	14012449	13754698	13872947	0.94	cps
Yttrium	89-2	3833578	3833383	3847777	3838246	0.22	cps
Zinc	66-2	5861	6111	5788	5920	2.86	cps
Zirconium	90-1	23652	24117	23639	23803	1.14	cps
Zirconium	91-1	5008	5408	5364	5260	4.17	cps

LB Number :LB134068Operator :Jaswal

Lab Sample ID :S03Instrumnet Name :P7

Client Sample ID :S03Dilution Factor :1

Date & Time Acquired :2024-12-23 11:09:06DataFile Name :007CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	305989	306071	303705	305255	0.44	cps
Antimony	121-1	636096	644590	641383	640689	0.67	cps
Arsenic	75-2	35626	35365	35279	35423	0.51	cps
Barium	135-1	804678	816099	804129	808302	0.84	cps
Barium	137-1	1384282	1406377	1389354	1393338	0.83	cps
Beryllium	9-1	81201	84324	84692	83406	2.30	cps
Bismuth	209-1	8092996	8110291	7999279	8067522	0.74	cps
Bismuth	209-2	7049024	7060200	6950708	7019978	0.86	cps
Bromine	81-1	14807	15592	15338	15246	2.62	cps
Bromine	81-2	177	167	190	178	6.58	cps
Cadmium	108-1	12369	12462	12639	12490	1.10	cps
Cadmium	106-1	20678	21376	21426	21160	1.98	cps
Cadmium	111-1	169881	172546	172271	171566	0.85	cps
Calcium	43-1	188454	190686	188640	189260	0.65	cps
Calcium	44-1	2872382	2875853	2834505	2860913	0.80	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	280551	278399	275711	278220	0.87	cps
Cobalt	59-2	436316	435514	434153	435327	0.25	cps
Copper	63-2	3297039	3259229	3256319	3270862	0.69	cps
Dysprosium	156-1	37	43	33	38	13.48	cps
Dysprosium	156-2	43	50	50	48	8.06	cps
Erbium	164-1	43	53	50	49	10.42	cps
Erbium	164-2	20	37	20	26	37.66	cps
Gadolinium	160-1	53	60	50	54	9.35	cps
Gadolinium	160-2	397	447	420	421	5.94	cps
Holmium	165-1	14072726	14010332	14008579	14030546	0.26	cps
Holmium	165-2	10259764	10199410	10056095	10171756	1.03	cps
Indium	115-1	11752830	11981863	11886771	11873821	0.97	cps
Indium	115-2	4416329	4443137	4382191	4413886	0.69	cps
Iron	56-2	12959223	12980798	12888718	12942913	0.37	cps
Iron	57-2	330896	330323	330361	330527	0.10	cps
Iron	54-2	737606	731206	733145	733986	0.45	cps
Krypton	83-1	227	230	223	227	1.47	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:09:06 DataFile Name : 007CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2277449	2284167	2232402	2264673	1.24	cps
Lead	207-1	2080713	2067633	2067195	2071847	0.37	cps
Lead	208-1	9360451	9434867	9274333	9356551	0.86	cps
Lithium	6-1	1720679	1771806	1748685	1747057	1.47	cps
Magnesium	24-2	2407444	2435461	2421186	2421364	0.58	cps
Manganese	55-2	2189995	2204466	2185120	2193194	0.46	cps
Molybdenum	94-1	2282503	2300933	2292004	2291813	0.40	cps
Molybdenum	95-1	3321220	3279590	3340151	3313654	0.93	cps
Molybdenum	96-1	3595295	3604009	3642430	3613911	0.69	cps
Molybdenum	97-1	2062492	2071933	2080897	2071774	0.44	cps
Molybdenum	98-1	5275462	5281066	5385685	5314071	1.17	cps
Neodymium	150-1	47	53	53	51	7.52	cps
Neodymium	150-2	20	30	3	18	75.79	cps
Nickel	60-2	111215	112017	110567	111266	0.65	cps
Phosphorus	31-2	14841	14734	15131	14902	1.38	cps
Potassium	39-2	1653192	1654381	1604388	1637320	1.74	cps
Rhodium	103-1	11086177	11113897	10968607	11056227	0.70	cps
Rhodium	103-2	6789248	6724998	6680048	6731431	0.82	cps
Scandium	45-1	6638936	6708936	6662171	6670015	0.53	cps
Scandium	45-2	592341	595406	596859	594868	0.39	cps
Selenium	82-1	10315	10563	10453	10444	1.19	cps
Selenium	77-2	1033	1160	1137	1110	6.07	cps
Selenium	78-2	4151	4171	4331	4217	2.34	cps
Silicon	28-1	1926114	1913369	1927834	1922439	0.41	cps
Silver	107-1	841114	853772	845834	846906	0.76	cps
Silver	109-1	797918	803656	806402	802659	0.54	cps
Sodium	23-2	3993500	4020765	3942365	3985543	1.00	cps
Strontium	86-1	208423	210176	208004	208868	0.55	cps
Strontium	88-1	1805282	1835578	1827410	1822757	0.86	cps
Sulfur	34-1	250870	254320	255911	253700	1.02	cps
Terbium	159-1	14541941	14529229	14366714	14479295	0.67	cps
Terbium	159-2	10212603	10196192	10292199	10233665	0.50	cps
Thallium	203-1	543115	550729	549804	547883	0.76	cps
Thallium	205-1	1275086	1289116	1291903	1285368	0.70	cps
Tin	118-1	534365	544164	539565	539364	0.91	cps
Titanium	47-1	836901	842396	841558	840285	0.35	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S03 Instrumnet Name : P7
Client Sample ID : S03 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:09:06 DataFile Name : 007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1665466	1689376	1696754	1683865	0.97	cps
Vanadium	51-2	244282	244367	242742	243797	0.38	cps
Yttrium	89-1	14009612	14018514	13862128	13963418	0.63	cps
Yttrium	89-2	3803583	3741113	3772397	3772364	0.83	cps
Zinc	66-2	520400	513768	514749	516306	0.69	cps
Zirconium	90-1	1106756	1110659	1105230	1107548	0.25	cps
Zirconium	91-1	244182	248710	247643	246845	0.96	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:12:08 DataFile Name : 008CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	744941	749253	744594	746263	0.35	cps
Antimony	121-1	1653321	1655916	1662477	1657238	0.28	cps
Arsenic	75-2	86906	87673	86319	86966	0.78	cps
Barium	135-1	2105383	2150696	2133596	2129891	1.07	cps
Barium	137-1	3644428	3697732	3655115	3665758	0.77	cps
Beryllium	9-1	208766	211953	209117	209945	0.83	cps
Bismuth	209-1	8080363	8147836	8063505	8097235	0.55	cps
Bismuth	209-2	6992457	6935869	7013852	6980726	0.58	cps
Bromine	81-1	15158	15351	15331	15280	0.70	cps
Bromine	81-2	150	167	170	162	6.61	cps
Cadmium	108-1	30950	31020	31017	30995	0.13	cps
Cadmium	106-1	46849	47601	47237	47229	0.80	cps
Cadmium	111-1	421158	428512	422886	424185	0.91	cps
Calcium	43-1	469844	467466	472555	469955	0.54	cps
Calcium	44-1	7162847	7177030	7063090	7134322	0.87	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	680818	678214	673910	677647	0.51	cps
Cobalt	59-2	1064326	1067852	1054453	1062211	0.65	cps
Copper	63-2	7817992	7864148	7942051	7874730	0.80	cps
Dysprosium	156-1	40	67	57	54	24.75	cps
Dysprosium	156-2	87	80	87	84	4.56	cps
Erbium	164-1	63	70	80	71	11.80	cps
Erbium	164-2	57	47	23	42	40.52	cps
Gadolinium	160-1	67	97	73	79	19.97	cps
Gadolinium	160-2	357	487	383	409	16.79	cps
Holmium	165-1	13864710	14061860	14002974	13976515	0.72	cps
Holmium	165-2	10230349	10423724	10140544	10264872	1.41	cps
Indium	115-1	11812407	11788389	11758296	11786364	0.23	cps
Indium	115-2	4384769	4414000	4278268	4359012	1.64	cps
Iron	56-2	31872428	32138914	31285437	31765593	1.37	cps
Iron	57-2	804875	811514	799207	805199	0.77	cps
Iron	54-2	1747171	1765049	1736185	1749468	0.83	cps
Krypton	83-1	203	270	233	236	14.17	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:12:08 DataFile Name : 008CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5847332	5750783	5783955	5794024	0.85	cps
Lead	207-1	5318296	5310048	5281063	5303136	0.37	cps
Lead	208-1	23834786	23816176	23736913	23795958	0.22	cps
Lithium	6-1	1773510	1751985	1805727	1777074	1.52	cps
Magnesium	24-2	5897908	5883294	5811983	5864395	0.78	cps
Manganese	55-2	5387373	5404290	5321039	5370901	0.82	cps
Molybdenum	94-1	5757997	5760446	5747533	5755325	0.12	cps
Molybdenum	95-1	8293782	8321285	8269001	8294689	0.32	cps
Molybdenum	96-1	9029899	9133032	9151167	9104699	0.72	cps
Molybdenum	97-1	5198567	5141962	5114586	5151705	0.83	cps
Molybdenum	98-1	13359166	13343799	13298015	13333660	0.24	cps
Neodymium	150-1	77	117	110	101	21.19	cps
Neodymium	150-2	23	33	17	24	34.31	cps
Nickel	60-2	271394	269039	268907	269780	0.52	cps
Phosphorus	31-2	36467	35879	35785	36043	1.03	cps
Potassium	39-2	3904075	3908920	3850977	3887991	0.83	cps
Rhodium	103-1	10837107	10942571	10877023	10885567	0.49	cps
Rhodium	103-2	6590253	6557514	6527845	6558537	0.48	cps
Scandium	45-1	6625188	6631439	6540067	6598898	0.77	cps
Scandium	45-2	582179	574935	568583	575233	1.18	cps
Selenium	82-1	26052	25927	25882	25954	0.34	cps
Selenium	77-2	2674	2754	2640	2689	2.17	cps
Selenium	78-2	9820	9346	9503	9557	2.53	cps
Silicon	28-1	3094370	3117955	3080172	3097499	0.62	cps
Silver	107-1	2160534	2150544	2145844	2152307	0.35	cps
Silver	109-1	2093903	2110465	2036830	2080399	1.86	cps
Sodium	23-2	9876779	9735875	9702176	9771610	0.95	cps
Strontium	86-1	517141	523600	521167	520636	0.63	cps
Strontium	88-1	4645970	4622972	4610709	4626550	0.39	cps
Sulfur	34-1	324921	326481	323376	324926	0.48	cps
Terbium	159-1	14433091	14492915	14523333	14483113	0.32	cps
Terbium	159-2	10276408	10289458	10052999	10206288	1.30	cps
Thallium	203-1	1369173	1382673	1385091	1378979	0.62	cps
Thallium	205-1	3505227	3536366	3513399	3518331	0.46	cps
Tin	118-1	1342626	1353245	1348344	1348071	0.39	cps
Titanium	47-1	2088122	2098791	2097629	2094847	0.28	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S04 Instrumnet Name : P7
Client Sample ID : S04 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:12:08 DataFile Name : 008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4661691	4634204	4683710	4659869	0.53	cps
Vanadium	51-2	598307	602416	591760	597494	0.90	cps
Yttrium	89-1	13830780	14001624	13887136	13906513	0.63	cps
Yttrium	89-2	3722399	3765778	3674699	3720959	1.22	cps
Zinc	66-2	1268197	1266811	1256922	1263977	0.49	cps
Zirconium	90-1	2830167	2798074	2860622	2829621	1.11	cps
Zirconium	91-1	612451	619425	618978	616951	0.63	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:14:58 DataFile Name : 009CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1275514	1270444	1270122	1272027	0.24	cps
Antimony	121-1	3113879	3126795	3146942	3129205	0.53	cps
Arsenic	75-2	150275	149356	147305	148979	1.02	cps
Barium	135-1	3978400	4028866	3952531	3986599	0.97	cps
Barium	137-1	6741155	6855887	6828784	6808609	0.88	cps
Beryllium	9-1	398475	400028	399169	399224	0.19	cps
Bismuth	209-1	8242988	8050311	8044171	8112490	1.39	cps
Bismuth	209-2	6790956	6853662	6735450	6793356	0.87	cps
Bromine	81-1	13793	13253	13486	13511	2.01	cps
Bromine	81-2	150	117	113	127	16.00	cps
Cadmium	108-1	57503	57962	57219	57561	0.65	cps
Cadmium	106-1	83653	84990	83632	84092	0.92	cps
Cadmium	111-1	781851	793407	780195	785151	0.92	cps
Calcium	43-1	872187	870866	851252	864768	1.36	cps
Calcium	44-1	13380836	13244959	12910744	13178846	1.84	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1157207	1144085	1139600	1146964	0.80	cps
Cobalt	59-2	1857906	1842256	1803060	1834407	1.54	cps
Copper	63-2	13479102	13417926	13240288	13379105	0.93	cps
Dysprosium	156-1	67	93	80	80	16.66	cps
Dysprosium	156-2	90	150	137	126	25.09	cps
Erbium	164-1	67	80	73	73	9.09	cps
Erbium	164-2	33	87	63	61	43.76	cps
Gadolinium	160-1	100	73	80	84	16.44	cps
Gadolinium	160-2	377	407	353	379	7.06	cps
Holmium	165-1	14162970	13744251	13659211	13855477	1.95	cps
Holmium	165-2	9838757	9703677	9746225	9762887	0.71	cps
Indium	115-1	11637312	11306301	11082757	11342123	2.46	cps
Indium	115-2	3989935	3923484	3940002	3951140	0.88	cps
Iron	56-2	55078519	54583674	53719388	54460527	1.26	cps
Iron	57-2	1364945	1384279	1374114	1374446	0.70	cps
Iron	54-2	3033898	2953589	2976287	2987924	1.39	cps
Krypton	83-1	203	240	180	208	14.56	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S05 Instrumnet Name : P7
Client Sample ID : S05 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:14:58 DataFile Name : 009CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11102858	11371470	11301450	11258593	1.24	cps
Lead	207-1	10127067	10233119	10385555	10248580	1.27	cps
Lead	208-1	45841324	46582151	46743610	46389028	1.04	cps
Lithium	6-1	1838930	1823105	1783110	1815048	1.59	cps
Magnesium	24-2	10206447	10088341	10080429	10125072	0.70	cps
Manganese	55-2	9370410	9223487	9271605	9288501	0.81	cps
Molybdenum	94-1	10718910	10882117	10515953	10705660	1.71	cps
Molybdenum	95-1	15536326	15749724	15325026	15537026	1.37	cps
Molybdenum	96-1	16953038	17171203	16636893	16920378	1.59	cps
Molybdenum	97-1	9535569	9646809	9524803	9569060	0.71	cps
Molybdenum	98-1	24811066	25125105	24671099	24869090	0.93	cps
Neodymium	150-1	183	183	213	193	8.96	cps
Neodymium	150-2	33	47	40	40	16.68	cps
Nickel	60-2	457172	452723	449113	453003	0.89	cps
Phosphorus	31-2	59940	59993	59264	59732	0.68	cps
Potassium	39-2	6523275	6474335	6484890	6494167	0.40	cps
Rhodium	103-1	10607566	10296441	10053285	10319097	2.69	cps
Rhodium	103-2	6049691	6001285	5976388	6009121	0.62	cps
Scandium	45-1	6498740	6216582	6083141	6266155	3.39	cps
Scandium	45-2	508048	499254	497574	501625	1.12	cps
Selenium	82-1	47790	47592	47276	47553	0.55	cps
Selenium	77-2	4687	4744	4891	4774	2.20	cps
Selenium	78-2	16429	15698	15648	15925	2.74	cps
Silicon	28-1	4755324	4846702	4679838	4760622	1.76	cps
Silver	107-1	4023541	4064979	3971067	4019862	1.17	cps
Silver	109-1	3885309	3887268	3796198	3856258	1.35	cps
Sodium	23-2	16764269	16675270	16758127	16732555	0.30	cps
Strontium	86-1	965177	970521	956429	964042	0.74	cps
Strontium	88-1	8557062	8555166	8271081	8461103	1.94	cps
Sulfur	34-1	415091	418296	407530	413639	1.34	cps
Terbium	159-1	14552306	14175827	14000807	14242980	1.98	cps
Terbium	159-2	9850001	9772846	9623006	9748618	1.18	cps
Thallium	203-1	2891619	2891690	2906828	2896713	0.30	cps
Thallium	205-1	6825714	6916868	6843547	6862043	0.70	cps
Tin	118-1	2618667	2616329	2530909	2588635	1.93	cps
Titanium	47-1	3912791	3886141	3870018	3889650	0.56	cps

LB Number :LB134068

Operator :Jaswal

Lab Sample ID :S05

Instrumnet Name :P7

Client Sample ID :S05

Dilution Factor :1

Date & Time Acquired :2024-12-23 11:14:58

DataFile Name :009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8955624	9167566	9117258	9080149	1.22	cps
Vanadium	51-2	1028061	1007020	1006368	1013816	1.22	cps
Yttrium	89-1	13720382	13108487	12914640	13247836	3.17	cps
Yttrium	89-2	3386463	3337150	3322380	3348664	1.00	cps
Zinc	66-2	2235374	2229845	2238164	2234461	0.19	cps
Zirconium	90-1	5328919	5330397	5186288	5281868	1.57	cps
Zirconium	91-1	1149281	1155034	1145913	1150076	0.40	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:17:46 DataFile Name : 010CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2487314	2473914	2465566	2475598	0.44	cps
Antimony	121-1	5927195	5986433	5951495	5955041	0.50	cps
Arsenic	75-2	287576	289235	288209	288340	0.29	cps
Barium	135-1	7671230	7630880	7702958	7668356	0.47	cps
Barium	137-1	12992370	12979823	13088678	13020290	0.46	cps
Beryllium	9-1	750408	764741	763093	759414	1.03	cps
Bismuth	209-1	7498064	7835052	7974492	7769203	3.15	cps
Bismuth	209-2	6725044	6702921	6897347	6775104	1.57	cps
Bromine	81-1	11485	11838	11421	11581	1.94	cps
Bromine	81-2	127	130	103	120	12.11	cps
Cadmium	108-1	107736	108397	109210	108448	0.68	cps
Cadmium	106-1	153296	154639	153858	153931	0.44	cps
Cadmium	111-1	1463952	1480824	1474135	1472970	0.58	cps
Calcium	43-1	1527949	1522990	1545302	1532080	0.76	cps
Calcium	44-1	24373468	24507726	24342279	24407824	0.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2224371	2224099	2234528	2227666	0.27	cps
Cobalt	59-2	3566147	3522374	3567941	3552154	0.73	cps
Copper	63-2	25891280	25772970	25737269	25800506	0.31	cps
Dysprosium	156-1	137	100	167	134	24.84	cps
Dysprosium	156-2	247	277	273	266	6.19	cps
Erbium	164-1	87	130	117	111	19.97	cps
Erbium	164-2	80	120	93	98	20.83	cps
Gadolinium	160-1	120	77	120	106	23.70	cps
Gadolinium	160-2	383	400	423	402	5.00	cps
Holmium	165-1	12783934	13612336	13327363	13241211	3.18	cps
Holmium	165-2	9705621	9774382	9862586	9780863	0.80	cps
Indium	115-1	9909649	10482056	10385873	10259192	2.99	cps
Indium	115-2	3866081	3833321	3817726	3839043	0.64	cps
Iron	56-2	106098105	105009452	106723952	105943836	0.82	cps
Iron	57-2	2662764	2601858	2619983	2628202	1.19	cps
Iron	54-2	5808126	5712482	5821467	5780692	1.03	cps
Krypton	83-1	153	257	213	208	24.97	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:17:46 DataFile Name : 010CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	22591913	22455173	22464783	22503956	0.34	cps
Lead	207-1	20505360	20505360	20472199	20494306	0.09	cps
Lead	208-1	92024445	92827569	92242754	92364923	0.45	cps
Lithium	6-1	1637806	1783356	1729197	1716786	4.28	cps
Magnesium	24-2	19652181	19495009	19630553	19592581	0.43	cps
Manganese	55-2	18025350	17899228	18207375	18043984	0.86	cps
Molybdenum	94-1	20088526	20207071	20169444	20155014	0.30	cps
Molybdenum	95-1	29122357	29155105	29106413	29127958	0.09	cps
Molybdenum	96-1	31983347	31942956	31434331	31786878	0.96	cps
Molybdenum	97-1	18219666	17997990	17924431	18047363	0.85	cps
Molybdenum	98-1	46949451	46815451	46254409	46673104	0.79	cps
Neodymium	150-1	370	327	293	330	11.65	cps
Neodymium	150-2	67	90	93	83	17.43	cps
Nickel	60-2	864201	867923	868178	866768	0.26	cps
Phosphorus	31-2	114333	115914	115884	115377	0.78	cps
Potassium	39-2	12660483	12594321	12641573	12632126	0.27	cps
Rhodium	103-1	8912105	9496073	9355187	9254455	3.29	cps
Rhodium	103-2	5731583	5700055	5808834	5746824	0.97	cps
Scandium	45-1	5397142	5689403	5640299	5575615	2.81	cps
Scandium	45-2	483230	482849	485862	483980	0.34	cps
Selenium	82-1	87950	87527	87395	87624	0.33	cps
Selenium	77-2	9026	8999	9306	9111	1.87	cps
Selenium	78-2	30555	30358	30308	30407	0.43	cps
Silicon	28-1	7290724	7316441	7307216	7304794	0.18	cps
Silver	107-1	7492839	7485433	7381092	7453121	0.84	cps
Silver	109-1	7210249	7184507	7182326	7192360	0.22	cps
Sodium	23-2	32533434	32224215	32443262	32400304	0.49	cps
Strontium	86-1	1889460	1854066	1833514	1859014	1.52	cps
Strontium	88-1	16191264	16130136	16175478	16165626	0.20	cps
Sulfur	34-1	582793	579787	579462	580681	0.32	cps
Terbium	159-1	13030280	13820792	13816266	13555780	3.36	cps
Terbium	159-2	9731612	9704029	9741188	9725610	0.20	cps
Thallium	203-1	5827546	5777008	5878395	5827650	0.87	cps
Thallium	205-1	13724435	13901065	13690299	13771933	0.82	cps
Tin	118-1	5001651	4977950	4972180	4983927	0.31	cps
Titanium	47-1	7026123	7088151	7168994	7094423	1.01	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S06 Instrumnet Name : P7
Client Sample ID : S06 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:17:46 DataFile Name : 010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	18710437	18823121	18981343	18838301	0.72	cps
Vanadium	51-2	1966386	1973317	1961507	1967070	0.30	cps
Yttrium	89-1	11655620	12289980	12227836	12057812	2.90	cps
Yttrium	89-2	3302280	3292075	3287396	3293917	0.23	cps
Zinc	66-2	4330023	4322298	4340690	4331004	0.21	cps
Zirconium	90-1	9855958	10003876	9993912	9951249	0.83	cps
Zirconium	91-1	2155716	2209618	2186443	2183926	1.24	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:20:30 DataFile Name : 011CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4988355	4921790	4918917	4943021	0.79	cps
Antimony	121-1	11792236	11976783	11822985	11864001	0.83	cps
Arsenic	75-2	573149	576881	570000	573343	0.60	cps
Barium	135-1	15290981	15311304	15237512	15279932	0.25	cps
Barium	137-1	26232225	26124345	25813701	26056757	0.83	cps
Beryllium	9-1	1492681	1481667	1483957	1486102	0.39	cps
Bismuth	209-1	7809328	7856384	7749473	7805062	0.69	cps
Bismuth	209-2	6546685	6567580	6643815	6586027	0.78	cps
Bromine	81-1	11641	11948	11655	11748	1.48	cps
Bromine	81-2	70	87	117	91	25.96	cps
Cadmium	108-1	209345	211502	213206	211351	0.92	cps
Cadmium	106-1	295049	299318	301390	298586	1.08	cps
Cadmium	111-1	2989459	2979087	3010957	2993167	0.54	cps
Calcium	43-1	2986322	3025036	3030817	3014058	0.80	cps
Calcium	44-1	47784741	48455169	48448606	48229505	0.80	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4481800	4480771	4437542	4466704	0.57	cps
Cobalt	59-2	7091055	7066009	7097522	7084862	0.23	cps
Copper	63-2	51495759	51055369	50586331	51045820	0.89	cps
Dysprosium	156-1	213	210	243	222	8.26	cps
Dysprosium	156-2	577	603	583	588	2.36	cps
Erbium	164-1	177	200	173	183	7.92	cps
Erbium	164-2	137	117	167	140	17.98	cps
Gadolinium	160-1	200	203	163	189	11.75	cps
Gadolinium	160-2	437	547	473	486	11.53	cps
Holmium	165-1	13556557	13605911	13559664	13574044	0.20	cps
Holmium	165-2	9709663	9779757	9725885	9738435	0.38	cps
Indium	115-1	10123246	10274005	10335047	10244099	1.06	cps
Indium	115-2	3744644	3715274	3769851	3743256	0.73	cps
Iron	56-2	212546617	214689203	210513390	212583070	0.98	cps
Iron	57-2	5217255	5267091	5263242	5249196	0.53	cps
Iron	54-2	11465536	11548812	11566200	11526849	0.47	cps
Krypton	83-1	203	223	210	212	4.80	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S07 Instrumnet Name : P7
Client Sample ID : S07 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:20:30 DataFile Name : 011CAL.S.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	44811604	44825038	44398169	44678270	0.54	cps
Lead	207-1	40538973	40590879	40637153	40589001	0.12	cps
Lead	208-1	184040461	183241758	183203067	183495096	0.26	cps
Lithium	6-1	1713297	1717958	1689491	1706915	0.89	cps
Magnesium	24-2	39231126	39210577	38911329	39117677	0.46	cps
Manganese	55-2	36162023	36367341	35720278	36083214	0.92	cps
Molybdenum	94-1	39912194	40606648	40175694	40231512	0.87	cps
Molybdenum	95-1	57603062	58556502	58397931	58185832	0.88	cps
Molybdenum	96-1	63007046	63826561	63099954	63311187	0.71	cps
Molybdenum	97-1	35962352	35964407	36541511	36156090	0.92	cps
Molybdenum	98-1	92699199	93669839	94097032	93488690	0.77	cps
Neodymium	150-1	690	697	647	678	4.01	cps
Neodymium	150-2	130	110	117	119	8.57	cps
Nickel	60-2	1767282	1819064	1793855	1793400	1.44	cps
Phosphorus	31-2	231630	229890	229198	230239	0.54	cps
Potassium	39-2	25248270	25563090	25136097	25315819	0.87	cps
Rhodium	103-1	9133155	9217774	9166315	9172415	0.46	cps
Rhodium	103-2	5712108	5685141	5676965	5691405	0.32	cps
Scandium	45-1	5636529	5661110	5660815	5652818	0.25	cps
Scandium	45-2	486611	489260	486479	487450	0.32	cps
Selenium	82-1	169997	172382	170935	171105	0.70	cps
Selenium	77-2	18024	18258	18078	18120	0.68	cps
Selenium	78-2	59897	59733	58973	59535	0.83	cps
Silicon	28-1	13169136	13149151	13107836	13142041	0.24	cps
Silver	107-1	14459829	14553612	14459756	14491066	0.37	cps
Silver	109-1	13965058	14051619	14033804	14016827	0.33	cps
Sodium	23-2	64630224	65211572	64854159	64898652	0.45	cps
Strontium	86-1	3676392	3726432	3713750	3705525	0.70	cps
Strontium	88-1	31993415	32222810	32324702	32180309	0.53	cps
Sulfur	34-1	975861	982054	984253	980723	0.44	cps
Terbium	159-1	13777605	13839888	13852187	13823227	0.29	cps
Terbium	159-2	9672089	9705399	9829872	9735787	0.85	cps
Thallium	203-1	11603450	11657965	11514057	11591824	0.63	cps
Thallium	205-1	27510625	27534975	27242987	27429529	0.59	cps
Tin	118-1	9824227	9847143	9945492	9872287	0.65	cps
Titanium	47-1	14108239	14148774	14266722	14174579	0.58	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

S07

Instrumnet Name :

P7

Client Sample ID :

S07

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 11:20:30

DataFile Name :

011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	38146975	37929774	37861515	37979422	0.39	cps
Vanadium	51-2	3999747	3977124	3947014	3974628	0.67	cps
Yttrium	89-1	12259250	12323464	12252681	12278465	0.32	cps
Yttrium	89-2	3301905	3304334	3272806	3293015	0.53	cps
Zinc	66-2	8588581	8520694	8393746	8501007	1.16	cps
Zirconium	90-1	19829476	19860751	20005084	19898437	0.47	cps
Zirconium	91-1	4376487	4359660	4410606	4382251	0.59	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:23:17 DataFile Name : 012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	27437574	27253811	27669653	27453679	0.76	cps
Antimony	121-1	7829	7135	6498	7154	9.30	cps
Arsenic	75-2	387	363	323	358	8.95	cps
Barium	135-1	9113	7892	7219	8075	11.89	cps
Barium	137-1	15091	13940	12589	13874	9.03	cps
Beryllium	9-1	597	500	493	530	10.91	cps
Bismuth	209-1	7288883	6850332	6743712	6960976	4.15	cps
Bismuth	209-2	5952066	5959371	5990297	5967244	0.34	cps
Bromine	81-1	13039	13199	12555	12931	2.59	cps
Bromine	81-2	140	140	177	152	13.91	cps
Cadmium	108-1	103	153	97	118	26.30	cps
Cadmium	106-1	3150	3147	3070	3123	1.45	cps
Cadmium	111-1	3110	2899	2865	2958	4.48	cps
Calcium	43-1	14976617	15188909	15292744	15152757	1.06	cps
Calcium	44-1	241675876	241188763	245607096	242823912	1.00	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7576	7175	7459	7403	2.78	cps
Cobalt	59-2	18695	18825	19363	18961	1.87	cps
Copper	63-2	11281	10277	9923	10494	6.71	cps
Dysprosium	156-1	353	460	413	409	13.08	cps
Dysprosium	156-2	390	340	373	368	6.92	cps
Erbium	164-1	443	510	547	500	10.48	cps
Erbium	164-2	337	313	360	337	6.93	cps
Gadolinium	160-1	440	437	520	466	10.13	cps
Gadolinium	160-2	780	713	640	711	9.85	cps
Holmium	165-1	13836897	12773506	12889314	13166573	4.43	cps
Holmium	165-2	9711092	9628569	9596200	9645287	0.61	cps
Indium	115-1	10574546	9929510	9904998	10136351	3.75	cps
Indium	115-2	3794820	3783794	3824699	3801104	0.56	cps
Iron	56-2	1098918997	1099257130	1103563984	1100580037	0.24	cps
Iron	57-2	27140580	27175253	27525253	27280362	0.78	cps
Iron	54-2	58959287	59483136	59087864	59176762	0.46	cps
Krypton	83-1	260	237	210	236	10.62	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : S08 Instrumnet Name : P7
Client Sample ID : S08 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 11:23:17 DataFile Name : 012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	15809	13287	11645	13580	15.45	cps
Lead	207-1	14067	12332	10898	12433	12.77	cps
Lead	208-1	64026	54760	47733	55507	14.72	cps
Lithium	6-1	1733482	1626482	1634378	1664781	3.58	cps
Magnesium	24-2	225828477	225232150	225566617	225542414	0.13	cps
Manganese	55-2	19904	17353	16623	17960	9.59	cps
Molybdenum	94-1	17597	15098	12922	15206	15.38	cps
Molybdenum	95-1	19897	16016	12989	16301	21.24	cps
Molybdenum	96-1	32556	28020	24618	28398	14.03	cps
Molybdenum	97-1	11838	9987	8172	9999	18.33	cps
Molybdenum	98-1	30392	24968	20488	25282	19.62	cps
Neodymium	150-1	223	287	227	246	14.51	cps
Neodymium	150-2	130	167	170	156	14.27	cps
Nickel	60-2	6381	6608	6291	6427	2.54	cps
Phosphorus	31-2	297	240	220	252	15.77	cps
Potassium	39-2	137235238	137274101	138135691	137548344	0.37	cps
Rhodium	103-1	9274410	8530291	8570820	8791840	4.76	cps
Rhodium	103-2	5452161	5433528	5481654	5455781	0.44	cps
Scandium	45-1	6117952	5643634	5766116	5842567	4.21	cps
Scandium	45-2	519552	518230	519563	519115	0.15	cps
Selenium	82-1	324	323	341	329	3.05	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	393	403	383	393	2.54	cps
Silicon	28-1	751926	755926	756452	754768	0.33	cps
Silver	107-1	4788	3851	3157	3932	20.81	cps
Silver	109-1	4454	3694	3014	3721	19.37	cps
Sodium	23-2	347530155	351266968	352841608	350546244	0.78	cps
Strontium	86-1	11284	11571	11174	11343	1.81	cps
Strontium	88-1	99702	96893	97155	97917	1.58	cps
Sulfur	34-1	155404	155078	161749	157410	2.39	cps
Terbium	159-1	14064499	13070200	13165775	13433491	4.08	cps
Terbium	159-2	9592493	9577359	9639962	9603271	0.34	cps
Thallium	203-1	3140	2354	2140	2545	20.70	cps
Thallium	205-1	7215	5815	4858	5963	19.89	cps
Tin	118-1	5571	5044	4437	5018	11.31	cps
Titanium	47-1	4888	3947	3237	4024	20.57	cps

LB Number :LB134068

Operator :Jaswal

Lab Sample ID :S08

Instrumnet Name :P7

Client Sample ID :S08

Dilution Factor :1

Date & Time Acquired :2024-12-23 11:23:17

DataFile Name :012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	9283	7389	5478	7383	25.77	cps
Vanadium	51-2	953	893	867	904	4.91	cps
Yttrium	89-1	12703317	11979101	12131361	12271260	3.11	cps
Yttrium	89-2	3389398	3333661	3391093	3371384	0.97	cps
Zinc	66-2	6585	6418	6421	6475	1.47	cps
Zirconium	90-1	15655	14868	13536	14686	7.29	cps
Zirconium	91-1	3580	3197	2980	3253	9.34	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICV007 Instrumnet Name : P7
Client Sample ID : ICV007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:06:59 DataFile Name : 017ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	142393	141528	141091	141671	0.47	cps
Antimony	121-1	2625181	2584104	2607438	2605574	0.79	cps
Arsenic	75-2	137940	138061	137916	137973	0.06	cps
Barium	135-1	317481	316887	314996	316454	0.41	cps
Barium	137-1	549209	547780	544396	547128	0.45	cps
Beryllium	9-1	167392	169676	168826	168631	0.68	cps
Bismuth	209-1	8107044	8076013	7973389	8052149	0.87	cps
Bismuth	209-2	7055122	7107131	6963112	7041789	1.04	cps
Bromine	81-1	14764	14637	14304	14568	1.63	cps
Bromine	81-2	267	183	170	207	25.35	cps
Cadmium	108-1	21212	21446	21850	21503	1.50	cps
Cadmium	106-1	32667	32212	32750	32543	0.89	cps
Cadmium	111-1	336332	332327	332717	333792	0.66	cps
Calcium	43-1	71132	70613	70600	70782	0.43	cps
Calcium	44-1	1153762	1154784	1146050	1151532	0.41	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	536111	537969	541947	538676	0.55	cps
Cobalt	59-2	841688	839967	843538	841731	0.21	cps
Copper	63-2	579785	577409	578810	578668	0.21	cps
Dysprosium	156-1	10	37	10	19	81.51	cps
Dysprosium	156-2	10	13	3	9	57.30	cps
Erbium	164-1	43	33	37	38	13.48	cps
Erbium	164-2	50	27	40	39	30.10	cps
Gadolinium	160-1	37	50	63	50	26.66	cps
Gadolinium	160-2	477	407	453	446	8.00	cps
Holmium	165-1	13839185	13651891	13571731	13687602	1.00	cps
Holmium	165-2	10050128	10078417	9933882	10020809	0.76	cps
Indium	115-1	11585537	11554165	11463732	11534478	0.55	cps
Indium	115-2	4292570	4279382	4247935	4273296	0.54	cps
Iron	56-2	9732934	9677732	9784227	9731631	0.55	cps
Iron	57-2	248742	249453	247035	248410	0.50	cps
Iron	54-2	563773	563017	560752	562514	0.28	cps
Krypton	83-1	267	250	207	241	12.85	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICV007 Instrumnet Name : P7
Client Sample ID : ICV007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:06:59 DataFile Name : 017ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1903622	1848323	1851883	1867943	1.66	cps
Lead	207-1	1502713	1501896	1505680	1503430	0.13	cps
Lead	208-1	7410381	7351318	7315924	7359208	0.65	cps
Lithium	6-1	1800541	1762817	1830262	1797873	1.88	cps
Magnesium	24-2	541342	538775	539760	539959	0.24	cps
Manganese	55-2	420353	423172	419470	420998	0.46	cps
Molybdenum	94-1	443	463	363	423	12.50	cps
Molybdenum	95-1	257	280	273	270	4.45	cps
Molybdenum	96-1	590	527	480	532	10.37	cps
Molybdenum	97-1	167	160	170	166	3.08	cps
Molybdenum	98-1	463	477	427	456	5.68	cps
Neodymium	150-1	27	17	20	21	24.12	cps
Neodymium	150-2	3	3	10	6	69.34	cps
Nickel	60-2	217585	216354	215942	216627	0.39	cps
Phosphorus	31-2	217	210	147	191	20.21	cps
Potassium	39-2	1200193	1200310	1256888	1219130	2.68	cps
Rhodium	103-1	10854144	10812615	10703064	10789941	0.72	cps
Rhodium	103-2	6601639	6536951	6492264	6543618	0.84	cps
Scandium	45-1	6481138	6437611	6455184	6457978	0.34	cps
Scandium	45-2	564646	565053	563329	564343	0.16	cps
Selenium	82-1	41805	41912	41310	41676	0.77	cps
Selenium	77-2	4557	4484	4547	4530	0.88	cps
Selenium	78-2	14821	15078	15161	15020	1.18	cps
Silicon	28-1	716763	718141	714211	716372	0.28	cps
Silver	107-1	773526	778377	780588	777497	0.46	cps
Silver	109-1	745824	750801	745290	747305	0.41	cps
Sodium	23-2	1504162	1497238	1476787	1492729	0.95	cps
Strontium	86-1	1403	1363	1383	1383	1.45	cps
Strontium	88-1	8946	8576	8916	8813	2.33	cps
Sulfur	34-1	188787	189435	189452	189225	0.20	cps
Terbium	159-1	14297934	14185554	14036333	14173274	0.93	cps
Terbium	159-2	9987974	10041395	10018243	10015871	0.27	cps
Thallium	203-1	2413234	2366222	2380484	2386647	1.01	cps
Thallium	205-1	5621493	5627318	5557601	5602137	0.69	cps
Tin	118-1	1537	1527	1500	1521	1.25	cps
Titanium	47-1	137	123	97	119	17.13	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICV007 Instrumnet Name : P7
Client Sample ID : ICV007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:06:59 DataFile Name : 017ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	23	17	27	22	22.91	cps
Vanadium	51-2	464719	464279	461854	463618	0.33	cps
Yttrium	89-1	13639574	13491437	13496099	13542370	0.62	cps
Yttrium	89-2	3670428	3614251	3612311	3632330	0.91	cps
Zinc	66-2	196920	196308	194448	195892	0.66	cps
Zirconium	90-1	767	717	760	748	3.63	cps
Zirconium	91-1	343	390	427	387	10.80	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICB007 Instrumnet Name : P7
Client Sample ID : ICB007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:25:40 DataFile Name : 021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	177	167	150	164	8.19	cps
Antimony	121-1	160	130	117	136	16.37	cps
Arsenic	75-2	0	0	3	1	173.21	cps
Barium	135-1	70	47	60	59	19.88	cps
Barium	137-1	100	127	160	129	23.32	cps
Beryllium	9-1	63	20	57	47	50.00	cps
Bismuth	209-1	7996928	7939507	7883128	7939854	0.72	cps
Bismuth	209-2	7023467	7015579	6958430	6999159	0.51	cps
Bromine	81-1	14427	14307	14277	14337	0.55	cps
Bromine	81-2	160	183	147	163	11.36	cps
Cadmium	108-1	27	13	17	19	36.75	cps
Cadmium	106-1	3117	2980	3064	3054	2.26	cps
Cadmium	111-1	2183	2100	2136	2140	1.95	cps
Calcium	43-1	447	383	413	414	7.64	cps
Calcium	44-1	10380	10674	10667	10574	1.58	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1517	1383	1383	1428	5.39	cps
Cobalt	59-2	117	103	107	109	6.37	cps
Copper	63-2	823	657	793	758	11.72	cps
Dysprosium	156-1	13	13	17	14	13.35	cps
Dysprosium	156-2	10	7	10	9	21.63	cps
Erbium	164-1	67	60	40	56	24.98	cps
Erbium	164-2	30	20	40	30	33.33	cps
Gadolinium	160-1	53	33	73	53	37.50	cps
Gadolinium	160-2	483	510	460	484	5.16	cps
Holmium	165-1	13677474	13503199	13256581	13479085	1.57	cps
Holmium	165-2	10082592	9976659	9879819	9979690	1.02	cps
Indium	115-1	11724216	11486348	11505376	11571980	1.14	cps
Indium	115-2	4347908	4306905	4294940	4316584	0.64	cps
Iron	56-2	19055	19269	18989	19104	0.77	cps
Iron	57-2	920	983	953	952	3.33	cps
Iron	54-2	2720	2607	2604	2644	2.51	cps
Krypton	83-1	263	263	243	257	4.50	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICB007 Instrumnet Name : P7
Client Sample ID : ICB007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:25:40 DataFile Name : 021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	387	430	360	392	9.01	cps
Lead	207-1	363	387	360	370	3.93	cps
Lead	208-1	1563	1647	1607	1606	2.60	cps
Lithium	6-1	1725479	1726818	1730622	1727640	0.15	cps
Magnesium	24-2	673	653	617	648	4.44	cps
Manganese	55-2	200	297	263	253	19.38	cps
Molybdenum	94-1	297	307	303	302	1.68	cps
Molybdenum	95-1	170	167	190	176	7.19	cps
Molybdenum	96-1	240	197	230	222	10.21	cps
Molybdenum	97-1	110	100	100	103	5.59	cps
Molybdenum	98-1	280	180	243	234	21.58	cps
Neodymium	150-1	7	0	13	7	99.98	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	380	400	377	386	3.27	cps
Phosphorus	31-2	153	163	203	173	15.26	cps
Potassium	39-2	51075	51199	51065	51113	0.15	cps
Rhodium	103-1	10727294	10648849	10645692	10673945	0.43	cps
Rhodium	103-2	6601868	6578340	6517266	6565824	0.67	cps
Scandium	45-1	6448850	6403501	6436602	6429651	0.36	cps
Scandium	45-2	577039	574573	571715	574443	0.46	cps
Selenium	82-1	122	118	90	110	15.84	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	467	390	457	438	9.52	cps
Silicon	28-1	756404	750343	743020	749922	0.89	cps
Silver	107-1	153	193	150	166	14.57	cps
Silver	109-1	133	103	147	128	17.37	cps
Sodium	23-2	21619	21585	21462	21555	0.38	cps
Strontium	86-1	450	473	403	442	8.06	cps
Strontium	88-1	377	303	313	331	12.01	cps
Sulfur	34-1	202320	198096	196622	199013	1.49	cps
Terbium	159-1	14052669	13839926	13844076	13912223	0.87	cps
Terbium	159-2	9903159	10090234	9876833	9956742	1.17	cps
Thallium	203-1	237	343	273	284	19.05	cps
Thallium	205-1	683	653	703	680	3.70	cps
Tin	118-1	1493	1567	1443	1501	4.13	cps
Titanium	47-1	107	103	80	97	15.03	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICB007 Instrumnet Name : P7
Client Sample ID : ICB007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:25:40 DataFile Name : 021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17	17	33	22	43.28	cps
Vanadium	51-2	20	7	10	12	56.76	cps
Yttrium	89-1	13532225	13445482	13363515	13447074	0.63	cps
Yttrium	89-2	3694604	3731332	3689371	3705102	0.62	cps
Zinc	66-2	283	260	273	272	4.30	cps
Zirconium	90-1	640	737	610	662	10.00	cps
Zirconium	91-1	137	143	93	124	21.82	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICSA007 Instrumnet Name : P7
Client Sample ID : ICSA007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:29:38 DataFile Name : 022ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	25140356	25389877	25446172	25325469	0.64	cps
Antimony	121-1	13623	13493	13593	13570	0.50	cps
Arsenic	75-2	190	237	237	221	12.19	cps
Barium	135-1	4591	4261	4447	4433	3.73	cps
Barium	137-1	7565	7665	7759	7663	1.26	cps
Beryllium	9-1	537	477	500	504	6.00	cps
Bismuth	209-1	7736757	7765727	7678192	7726892	0.58	cps
Bismuth	209-2	6701859	6675553	6737614	6705009	0.46	cps
Bromine	81-1	15245	14434	14911	14863	2.74	cps
Bromine	81-2	377	400	503	427	15.80	cps
Cadmium	108-1	2124	2050	1953	2042	4.18	cps
Cadmium	106-1	2957	2727	2670	2785	5.45	cps
Cadmium	111-1	3200	3134	2975	3103	3.73	cps
Calcium	43-1	3266383	3238367	3276554	3260435	0.61	cps
Calcium	44-1	52117886	51644159	52267583	52009876	0.63	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	98237	100092	99529	99286	0.96	cps
Cobalt	59-2	9843	9079	9660	9528	4.19	cps
Copper	63-2	39870	39706	39382	39652	0.63	cps
Dysprosium	156-1	70	70	43	61	25.20	cps
Dysprosium	156-2	60	20	50	43	48.04	cps
Erbium	164-1	83	87	117	96	19.21	cps
Erbium	164-2	50	73	63	62	18.81	cps
Gadolinium	160-1	73	70	83	76	9.18	cps
Gadolinium	160-2	460	463	447	457	1.93	cps
Holmium	165-1	13679284	13605416	13493859	13592853	0.69	cps
Holmium	165-2	10016424	9926237	10143365	10028675	1.09	cps
Indium	115-1	10832720	10749511	10774890	10785707	0.40	cps
Indium	115-2	4011462	3995489	3999104	4002018	0.21	cps
Iron	56-2	464060020	458153260	461158633	461123971	0.64	cps
Iron	57-2	11398467	11350549	11373228	11374081	0.21	cps
Iron	54-2	24690241	24756083	24709090	24718472	0.14	cps
Krypton	83-1	207	260	260	242	12.71	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICSA007 Instrumnet Name : P7
Client Sample ID : ICSA007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:29:38 DataFile Name : 022ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	42750	44021	44135	43635	1.76	cps
Lead	207-1	34928	36125	35563	35539	1.68	cps
Lead	208-1	164705	169017	167147	166957	1.30	cps
Lithium	6-1	1740093	1711647	1688216	1713319	1.52	cps
Magnesium	24-2	42185984	42212815	41977384	42125394	0.31	cps
Manganese	55-2	32235	32265	31757	32085	0.89	cps
Molybdenum	94-1	6936525	6870771	6955379	6920892	0.64	cps
Molybdenum	95-1	12221908	12236118	12415097	12291041	0.88	cps
Molybdenum	96-1	13215418	13335505	13246995	13265973	0.47	cps
Molybdenum	97-1	7549733	7736288	7674186	7653402	1.24	cps
Molybdenum	98-1	19689953	19897120	19789987	19792353	0.52	cps
Neodymium	150-1	63	57	63	61	6.29	cps
Neodymium	150-2	43	33	23	33	30.00	cps
Nickel	60-2	10644	10694	10460	10599	1.16	cps
Phosphorus	31-2	1254166	1254839	1263790	1257598	0.43	cps
Potassium	39-2	54132309	54621639	54850838	54534929	0.67	cps
Rhodium	103-1	9845499	9642065	9592658	9693408	1.38	cps
Rhodium	103-2	5892330	5844117	5891313	5875920	0.47	cps
Scandium	45-1	6066520	6081656	5962705	6036960	1.07	cps
Scandium	45-2	510590	515976	515084	513883	0.56	cps
Selenium	82-1	155	126	126	136	12.16	cps
Selenium	77-2	3	7	7	6	34.70	cps
Selenium	78-2	403	383	403	397	2.91	cps
Silicon	28-1	726078	709501	713741	716440	1.20	cps
Silver	107-1	833	623	560	672	21.28	cps
Silver	109-1	723	600	570	631	12.88	cps
Sodium	23-2	69208927	69978552	69650819	69612766	0.55	cps
Strontium	86-1	134386	134101	133989	134159	0.15	cps
Strontium	88-1	1154223	1162425	1166018	1160889	0.52	cps
Sulfur	34-1	4704785	4656084	4683242	4681371	0.52	cps
Terbium	159-1	14002516	14060105	14137034	14066551	0.48	cps
Terbium	159-2	9868384	9969348	9990059	9942597	0.65	cps
Thallium	203-1	1443	1390	1407	1413	1.93	cps
Thallium	205-1	3657	3497	3107	3420	8.27	cps
Tin	118-1	3754	3727	3500	3661	3.80	cps
Titanium	47-1	3143341	3123590	3108955	3125295	0.55	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICSA007 Instrumnet Name : P7
Client Sample ID : ICSA007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:29:38 DataFile Name : 022ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	603	583	640	609	4.72	cps
Vanadium	51-2	730	787	697	738	6.17	cps
Yttrium	89-1	12871814	12826527	12836651	12844998	0.19	cps
Yttrium	89-2	3422800	3491611	3459773	3458062	1.00	cps
Zinc	66-2	10317	10667	10544	10509	1.69	cps
Zirconium	90-1	1030	1070	1260	1120	10.97	cps
Zirconium	91-1	260	290	260	270	6.42	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICSAB007 Instrumnet Name : P7
Client Sample ID : ICSAB007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:32:42 DataFile Name : 023ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	25457408	25391525	25455161	25434698	0.15	cps
Antimony	121-1	260798	264854	265041	263564	0.91	cps
Arsenic	75-2	12996	13440	13163	13199	1.70	cps
Barium	135-1	67124	67469	67633	67409	0.39	cps
Barium	137-1	115376	119540	118411	117776	1.83	cps
Beryllium	9-1	31408	31986	31459	31618	1.01	cps
Bismuth	209-1	8075805	7831556	7831181	7912847	1.78	cps
Bismuth	209-2	6873080	6818386	6763775	6818414	0.80	cps
Bromine	81-1	14931	15628	15225	15261	2.29	cps
Bromine	81-2	350	430	420	400	10.90	cps
Cadmium	108-1	5781	6138	5848	5922	3.20	cps
Cadmium	106-1	8583	8586	8479	8549	0.71	cps
Cadmium	111-1	63407	65346	65156	64636	1.65	cps
Calcium	43-1	3248782	3309879	3254482	3271048	1.03	cps
Calcium	44-1	51570978	52494456	52602869	52222768	1.09	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	198508	199801	198056	198788	0.46	cps
Cobalt	59-2	164318	163115	163011	163482	0.44	cps
Copper	63-2	145102	143521	143268	143964	0.69	cps
Dysprosium	156-1	73	33	50	52	38.48	cps
Dysprosium	156-2	43	23	50	39	35.69	cps
Erbium	164-1	107	103	103	104	1.85	cps
Erbium	164-2	50	70	73	64	19.58	cps
Gadolinium	160-1	80	93	97	90	9.80	cps
Gadolinium	160-2	473	397	437	436	8.80	cps
Holmium	165-1	14782632	14024401	14034561	14280532	3.05	cps
Holmium	165-2	10092524	10232828	10031904	10119085	1.02	cps
Indium	115-1	11579799	11178296	11103473	11287189	2.27	cps
Indium	115-2	4053261	4085507	4051452	4063407	0.47	cps
Iron	56-2	461098633	465182446	461506260	462595780	0.49	cps
Iron	57-2	11445573	11269386	11293507	11336155	0.84	cps
Iron	54-2	24912505	25210893	24788809	24970735	0.87	cps
Krypton	83-1	283	210	247	247	14.87	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICSAB007 Instrumnet Name : P7
Client Sample ID : ICSAB007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:32:42 DataFile Name : 023ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	215942	221601	222667	220070	1.64	cps
Lead	207-1	185917	189182	189358	188152	1.03	cps
Lead	208-1	858524	869417	871341	866427	0.80	cps
Lithium	6-1	1755007	1694033	1698769	1715936	1.98	cps
Magnesium	24-2	42492806	42349206	42355724	42399245	0.19	cps
Manganese	55-2	109716	109595	110595	109969	0.50	cps
Molybdenum	94-1	6988174	7233360	7056783	7092772	1.78	cps
Molybdenum	95-1	12255884	12576227	12414310	12415474	1.29	cps
Molybdenum	96-1	13302566	13472102	13429759	13401475	0.66	cps
Molybdenum	97-1	7653441	7749418	7794715	7732525	0.93	cps
Molybdenum	98-1	19922445	20038798	20137763	20033002	0.54	cps
Neodymium	150-1	53	60	47	53	12.50	cps
Neodymium	150-2	47	20	37	34	39.11	cps
Nickel	60-2	48358	49648	48307	48771	1.56	cps
Phosphorus	31-2	1265084	1275714	1266739	1269179	0.45	cps
Potassium	39-2	54653291	55223834	54585456	54820860	0.64	cps
Rhodium	103-1	10300652	9956787	9874624	10044021	2.25	cps
Rhodium	103-2	6069412	6053358	6029339	6050703	0.33	cps
Scandium	45-1	6423443	6122731	6009680	6185284	3.46	cps
Scandium	45-2	524471	528756	523624	525617	0.52	cps
Selenium	82-1	3869	4244	3955	4023	4.88	cps
Selenium	77-2	450	407	413	423	5.51	cps
Selenium	78-2	1867	1773	1823	1821	2.56	cps
Silicon	28-1	740818	746953	748376	745382	0.54	cps
Silver	107-1	289389	297139	297193	294574	1.52	cps
Silver	109-1	278086	284420	285763	282756	1.45	cps
Sodium	23-2	70033606	69580392	70079701	69897900	0.39	cps
Strontium	86-1	134945	137656	138787	137129	1.44	cps
Strontium	88-1	1157986	1187717	1190094	1178599	1.52	cps
Sulfur	34-1	4640786	4620828	4661712	4641109	0.44	cps
Terbium	159-1	15229611	14526225	14368611	14708149	3.12	cps
Terbium	159-2	10222969	10078930	9968127	10090009	1.27	cps
Thallium	203-1	221436	228979	228952	226456	1.92	cps
Thallium	205-1	525484	534664	538058	532735	1.22	cps
Tin	118-1	2924	3137	3214	3091	4.86	cps
Titanium	47-1	3091684	3177443	3113999	3127709	1.42	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : ICSAB007 Instrumnet Name : P7
Client Sample ID : ICSAB007 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:32:42 DataFile Name : 023ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	650	577	587	604	6.58	cps
Vanadium	51-2	86392	87790	88457	87546	1.20	cps
Yttrium	89-1	13835703	13359717	13170484	13455301	2.55	cps
Yttrium	89-2	3546451	3552206	3510375	3536344	0.64	cps
Zinc	66-2	29506	28941	29269	29239	0.97	cps
Zirconium	90-1	1037	1040	1123	1067	4.60	cps
Zirconium	91-1	200	240	277	239	16.05	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV041 Instrumnet Name : P7
Client Sample ID : CCV041 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:35:47 DataFile Name : 024CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	13919992	13902153	13879493	13900546	0.15	cps
Antimony	121-1	5892366	6074526	6132671	6033188	2.08	cps
Arsenic	75-2	299211	300882	300643	300245	0.30	cps
Barium	135-1	7827437	7893417	7922768	7881208	0.62	cps
Barium	137-1	13292956	13650769	13741770	13561832	1.75	cps
Beryllium	9-1	714724	742031	741497	732751	2.13	cps
Bismuth	209-1	7954284	7418687	7375086	7582686	4.25	cps
Bismuth	209-2	6384788	6420335	6390054	6398393	0.30	cps
Bromine	81-1	13109	13823	13510	13481	2.65	cps
Bromine	81-2	87	123	110	107	17.40	cps
Cadmium	108-1	105255	107266	107612	106711	1.19	cps
Cadmium	106-1	150423	153373	154633	152810	1.41	cps
Cadmium	111-1	1420248	1453616	1455559	1443141	1.38	cps
Calcium	43-1	7860319	8077581	8175366	8037755	2.01	cps
Calcium	44-1	125964011	130438265	129787081	128729786	1.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2405489	2403657	2417749	2408965	0.32	cps
Cobalt	59-2	3740794	3703571	3715139	3719835	0.51	cps
Copper	63-2	26248037	26343623	26105839	26232500	0.46	cps
Dysprosium	156-1	320	343	303	322	6.24	cps
Dysprosium	156-2	433	460	457	450	3.23	cps
Erbium	164-1	267	310	283	287	7.63	cps
Erbium	164-2	237	217	217	223	5.17	cps
Gadolinium	160-1	300	293	320	304	4.56	cps
Gadolinium	160-2	497	640	633	590	13.71	cps
Holmium	165-1	14508392	13401079	13390671	13766714	4.67	cps
Holmium	165-2	9823755	9893602	9893030	9870129	0.41	cps
Indium	115-1	11259861	10442637	10429904	10710801	4.44	cps
Indium	115-2	3766795	3835728	3921193	3841238	2.01	cps
Iron	56-2	567627458	566679725	562802645	565703276	0.45	cps
Iron	57-2	14047814	13989055	13955381	13997417	0.33	cps
Iron	54-2	30456897	30375933	30578432	30470421	0.33	cps
Krypton	83-1	207	250	190	216	14.37	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV041 Instrumnet Name : P7
Client Sample ID : CCV041 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:35:47 DataFile Name : 024CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21418473	22231160	21876757	21842130	1.87	cps
Lead	207-1	19526626	20336637	20233124	20032129	2.20	cps
Lead	208-1	88504819	91565515	91379826	90483386	1.90	cps
Lithium	6-1	1739375	1636521	1602011	1659302	4.31	cps
Magnesium	24-2	107478895	107491555	107329338	107433263	0.08	cps
Manganese	55-2	19317385	19110690	19184453	19204176	0.55	cps
Molybdenum	94-1	21016218	21410461	21449964	21292214	1.13	cps
Molybdenum	95-1	30023483	30792300	30997800	30604528	1.68	cps
Molybdenum	96-1	33032415	34010059	33876451	33639642	1.58	cps
Molybdenum	97-1	18783287	19370591	19186432	19113437	1.57	cps
Molybdenum	98-1	48876293	49976569	49571831	49474898	1.12	cps
Neodymium	150-1	467	477	543	496	8.41	cps
Neodymium	150-2	160	130	150	147	10.41	cps
Nickel	60-2	893191	889664	888216	890357	0.29	cps
Phosphorus	31-2	124114	125204	124471	124596	0.45	cps
Potassium	39-2	68740142	69103464	69192931	69012179	0.35	cps
Rhodium	103-1	10041828	9260689	9072449	9458322	5.43	cps
Rhodium	103-2	5668368	5724758	5698511	5697212	0.50	cps
Scandium	45-1	6357507	5936204	5875552	6056421	4.33	cps
Scandium	45-2	515591	518866	521621	518693	0.58	cps
Selenium	82-1	85084	87754	86715	86517	1.56	cps
Selenium	77-2	9453	9183	8963	9200	2.67	cps
Selenium	78-2	30879	30415	31163	30819	1.23	cps
Silicon	28-1	3492904	3592721	3555658	3547094	1.42	cps
Silver	107-1	7317139	7334624	7461185	7370983	1.07	cps
Silver	109-1	7084881	7181402	7162127	7142803	0.72	cps
Sodium	23-2	173666167	172884877	174783391	173778145	0.55	cps
Strontium	86-1	1934216	1952886	1952885	1946662	0.55	cps
Strontium	88-1	16656921	16737692	17034610	16809741	1.18	cps
Sulfur	34-1	585555	597925	599891	594457	1.31	cps
Terbium	159-1	14829079	13684959	13806428	14106822	4.45	cps
Terbium	159-2	9675882	9778123	9759815	9737940	0.56	cps
Thallium	203-1	5625146	5774593	5761099	5720279	1.45	cps
Thallium	205-1	13402483	13665635	13625087	13564402	1.04	cps
Tin	118-1	4995059	5074582	5118607	5062749	1.24	cps
Titanium	47-1	7521848	7551119	7646753	7573240	0.86	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV041 Instrumnet Name : P7
Client Sample ID : CCV041 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:35:47 DataFile Name : 024CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	18363792	18887553	18522158	18591168	1.44	cps
Vanadium	51-2	2139822	2138884	2160379	2146362	0.57	cps
Yttrium	89-1	13636574	12586057	12360225	12860952	5.30	cps
Yttrium	89-2	3401282	3415367	3407297	3407982	0.21	cps
Zinc	66-2	4325825	4281284	4310256	4305788	0.52	cps
Zirconium	90-1	10305095	10508521	10577707	10463774	1.35	cps
Zirconium	91-1	2289410	2340564	2348841	2326272	1.38	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB041 Instrumnet Name : P7
Client Sample ID : CCB041 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:43:41 DataFile Name : 026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	153	127	140	140	9.52	cps
Antimony	121-1	470	553	387	470	17.73	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	63	87	83	78	16.23	cps
Barium	137-1	203	163	173	180	11.56	cps
Beryllium	9-1	87	53	100	80	30.05	cps
Bismuth	209-1	8379202	8249211	8178200	8268871	1.23	cps
Bismuth	209-2	7143011	7237019	7107340	7162457	0.94	cps
Bromine	81-1	13670	13820	13773	13754	0.56	cps
Bromine	81-2	237	227	230	231	2.20	cps
Cadmium	108-1	17	7	13	12	41.65	cps
Cadmium	106-1	2900	2970	2964	2945	1.31	cps
Cadmium	111-1	2065	2105	2095	2088	0.98	cps
Calcium	43-1	360	317	340	339	6.40	cps
Calcium	44-1	10631	10257	10347	10411	1.87	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1423	1493	1270	1396	8.19	cps
Cobalt	59-2	87	87	117	97	17.92	cps
Copper	63-2	847	887	850	861	2.58	cps
Dysprosium	156-1	20	10	20	17	34.64	cps
Dysprosium	156-2	10	3	3	6	69.34	cps
Erbium	164-1	80	43	60	61	30.04	cps
Erbium	164-2	27	43	40	37	24.04	cps
Gadolinium	160-1	40	47	67	51	27.15	cps
Gadolinium	160-2	423	447	437	436	2.69	cps
Holmium	165-1	13971139	13666494	13461776	13699803	1.87	cps
Holmium	165-2	10009943	10139362	9986782	10045362	0.82	cps
Indium	115-1	11512273	11415532	11377572	11435126	0.61	cps
Indium	115-2	4269204	4273494	4228293	4256997	0.59	cps
Iron	56-2	20013	19670	19216	19633	2.04	cps
Iron	57-2	793	833	867	831	4.42	cps
Iron	54-2	2274	2390	2340	2335	2.51	cps
Krypton	83-1	210	253	217	227	10.30	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB041 Instrumnet Name : P7
Client Sample ID : CCB041 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:43:41 DataFile Name : 026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	847	793	783	808	4.22	cps
Lead	207-1	800	690	683	724	9.04	cps
Lead	208-1	3454	3280	3080	3271	5.71	cps
Lithium	6-1	1752939	1755467	1771453	1759953	0.57	cps
Magnesium	24-2	963	933	917	938	2.52	cps
Manganese	55-2	330	277	317	308	9.02	cps
Molybdenum	94-1	570	537	557	554	3.03	cps
Molybdenum	95-1	460	537	427	474	11.89	cps
Molybdenum	96-1	550	597	517	554	7.25	cps
Molybdenum	97-1	260	270	250	260	3.85	cps
Molybdenum	98-1	783	767	667	739	8.54	cps
Neodymium	150-1	13	3	10	9	57.30	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	320	363	360	348	6.93	cps
Phosphorus	31-2	240	140	150	177	31.17	cps
Potassium	39-2	47267	47213	47424	47301	0.23	cps
Rhodium	103-1	10547720	10633796	10376832	10519450	1.24	cps
Rhodium	103-2	6493861	6512230	6431383	6479158	0.65	cps
Scandium	45-1	6307001	6305487	6260586	6291025	0.42	cps
Scandium	45-2	544670	539847	538869	541129	0.57	cps
Selenium	82-1	130	94	75	99	28.06	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	403	440	393	412	5.96	cps
Silicon	28-1	642368	639757	639939	640688	0.23	cps
Silver	107-1	253	210	220	228	9.96	cps
Silver	109-1	193	167	170	177	8.23	cps
Sodium	23-2	30757	30293	30180	30410	1.01	cps
Strontium	86-1	460	433	367	420	11.45	cps
Strontium	88-1	433	417	437	429	2.50	cps
Sulfur	34-1	175211	174679	174631	174841	0.18	cps
Terbium	159-1	14222000	14230619	13928985	14127201	1.22	cps
Terbium	159-2	10034842	10130999	10019783	10061874	0.60	cps
Thallium	203-1	690	560	577	609	11.62	cps
Thallium	205-1	1597	1560	1470	1542	4.23	cps
Tin	118-1	1380	1817	1357	1518	17.08	cps
Titanium	47-1	157	170	87	138	32.49	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB041 Instrumnet Name : P7
Client Sample ID : CCB041 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:43:41 DataFile Name : 026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	170	163	117	150	19.37	cps
Vanadium	51-2	37	23	7	22	67.63	cps
Yttrium	89-1	13483139	13341410	13229644	13351398	0.95	cps
Yttrium	89-2	3599318	3549369	3570497	3573061	0.70	cps
Zinc	66-2	257	243	310	270	13.07	cps
Zirconium	90-1	820	773	783	792	3.10	cps
Zirconium	91-1	140	167	203	170	18.71	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165834BL Instrumnet Name : P7
Client Sample ID : PBW834 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:56:05 DataFile Name : 029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	377	310	403	363	13.23	cps
Antimony	121-1	127	153	113	131	15.54	cps
Arsenic	75-2	7	3	10	7	50.03	cps
Barium	135-1	93	57	80	77	24.20	cps
Barium	137-1	167	87	103	119	35.50	cps
Beryllium	9-1	63	77	73	71	9.76	cps
Bismuth	209-1	8300054	8119718	7861774	8093849	2.72	cps
Bismuth	209-2	7254043	7271525	7223803	7249791	0.33	cps
Bromine	81-1	14234	14464	14097	14265	1.30	cps
Bromine	81-2	193	173	143	170	14.80	cps
Cadmium	108-1	20	3	17	13	66.16	cps
Cadmium	106-1	3200	3024	2937	3054	4.40	cps
Cadmium	111-1	2236	2124	2071	2144	3.94	cps
Calcium	43-1	340	370	347	352	4.47	cps
Calcium	44-1	10324	10043	10477	10281	2.14	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1450	1533	1540	1508	3.33	cps
Cobalt	59-2	120	117	107	114	6.06	cps
Copper	63-2	1083	957	1030	1023	6.21	cps
Dysprosium	156-1	10	10	23	14	53.28	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Erbium	164-1	43	43	70	52	29.49	cps
Erbium	164-2	40	30	30	33	17.32	cps
Gadolinium	160-1	50	43	37	43	15.38	cps
Gadolinium	160-2	430	440	450	440	2.27	cps
Holmium	165-1	13804681	13589460	13161400	13518514	2.42	cps
Holmium	165-2	10106840	10067227	10084155	10086074	0.20	cps
Indium	115-1	11581744	11477978	10988698	11349474	2.79	cps
Indium	115-2	4339632	4371712	4323542	4344962	0.56	cps
Iron	56-2	19232	19586	18809	19209	2.03	cps
Iron	57-2	907	870	890	889	2.07	cps
Iron	54-2	2430	2327	2594	2450	5.49	cps
Krypton	83-1	263	180	307	250	25.75	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165834BL Instrumnet Name : P7
Client Sample ID : PBW834 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:56:05 DataFile Name : 029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	463	493	467	474	3.47	cps
Lead	207-1	407	393	447	416	6.68	cps
Lead	208-1	1940	1830	1970	1913	3.85	cps
Lithium	6-1	1798752	1777131	1682666	1752850	3.52	cps
Magnesium	24-2	1043	843	887	924	11.38	cps
Manganese	55-2	437	493	433	454	7.42	cps
Molybdenum	94-1	323	303	330	319	4.35	cps
Molybdenum	95-1	227	220	190	212	9.20	cps
Molybdenum	96-1	257	297	230	261	12.85	cps
Molybdenum	97-1	97	137	120	118	17.06	cps
Molybdenum	98-1	277	287	270	278	3.02	cps
Neodymium	150-1	3	7	7	6	34.70	cps
Neodymium	150-2	0	7	0	2	173.21	cps
Nickel	60-2	333	380	353	356	6.59	cps
Phosphorus	31-2	150	203	137	163	21.60	cps
Potassium	39-2	49694	48942	50380	49672	1.45	cps
Rhodium	103-1	10791667	10573389	10200417	10521824	2.84	cps
Rhodium	103-2	6580972	6635238	6575655	6597288	0.50	cps
Scandium	45-1	6458394	6288530	6169299	6305408	2.30	cps
Scandium	45-2	563771	558459	558699	560310	0.54	cps
Selenium	82-1	122	182	14	106	80.05	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	467	460	413	447	6.51	cps
Silicon	28-1	676842	689183	697163	687729	1.49	cps
Silver	107-1	220	223	213	219	2.33	cps
Silver	109-1	203	163	177	181	11.25	cps
Sodium	23-2	25191	25698	25625	25505	1.08	cps
Strontium	86-1	410	493	477	460	9.59	cps
Strontium	88-1	357	360	367	361	1.41	cps
Sulfur	34-1	187211	188325	189712	188416	0.66	cps
Terbium	159-1	14291362	14073605	13366295	13910421	3.48	cps
Terbium	159-2	10150583	10108034	9971620	10076746	0.93	cps
Thallium	203-1	497	417	467	460	8.79	cps
Thallium	205-1	1073	1130	1033	1079	4.50	cps
Tin	118-1	1497	1490	1340	1442	6.14	cps
Titanium	47-1	123	110	50	94	41.36	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

PB165834BL

Instrumnet Name :

P7

Client Sample ID :

PBW834

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 12:56:05

DataFile Name :

029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	23	23	23	23	0.00	cps
Vanadium	51-2	10	13	7	10	33.30	cps
Yttrium	89-1	13621674	13406145	12744104	13257308	3.45	cps
Yttrium	89-2	3736451	3640546	3696462	3691153	1.31	cps
Zinc	66-2	423	433	460	439	4.32	cps
Zirconium	90-1	720	687	543	650	14.44	cps
Zirconium	91-1	150	140	113	134	14.10	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165834BS Instrumnet Name : P7
Client Sample ID : LCS834 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:59:23 DataFile Name : 030LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2649586	2623113	2616195	2629631	0.67	cps
Antimony	121-1	6282225	6308510	6169959	6253565	1.18	cps
Arsenic	75-2	303425	301912	300649	301995	0.46	cps
Barium	135-1	8078994	7940069	7929236	7982766	1.05	cps
Barium	137-1	13843439	13763291	13536571	13714434	1.16	cps
Beryllium	9-1	775316	774914	769302	773178	0.43	cps
Bismuth	209-1	8169293	8019779	8165526	8118199	1.05	cps
Bismuth	209-2	6883382	6846523	7061720	6930542	1.66	cps
Bromine	81-1	13583	12972	12892	13149	2.87	cps
Bromine	81-2	147	107	150	134	17.93	cps
Cadmium	108-1	114306	114396	112536	113746	0.92	cps
Cadmium	106-1	163535	163344	160711	162530	0.97	cps
Cadmium	111-1	1542601	1541778	1525320	1536567	0.63	cps
Calcium	43-1	1647638	1648910	1625647	1640732	0.80	cps
Calcium	44-1	26214054	26497008	25919947	26210336	1.10	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2361261	2366135	2342311	2356569	0.53	cps
Cobalt	59-2	3733323	3763372	3764211	3753635	0.47	cps
Copper	63-2	27237840	27159870	26919800	27105837	0.61	cps
Dysprosium	156-1	120	150	150	140	12.37	cps
Dysprosium	156-2	293	307	357	319	10.47	cps
Erbium	164-1	140	113	90	114	21.86	cps
Erbium	164-2	53	83	67	68	22.18	cps
Gadolinium	160-1	100	127	117	114	11.77	cps
Gadolinium	160-2	487	427	490	468	7.62	cps
Holmium	165-1	14003908	13764344	13610524	13792925	1.44	cps
Holmium	165-2	9906907	9776784	9941621	9875104	0.88	cps
Indium	115-1	11336540	10915396	10829158	11027032	2.46	cps
Indium	115-2	3984831	3959416	4036104	3993450	0.98	cps
Iron	56-2	111863068	111302045	110942122	111369078	0.42	cps
Iron	57-2	2776205	2759215	2786280	2773900	0.49	cps
Iron	54-2	6109267	6083359	6026691	6073106	0.70	cps
Krypton	83-1	267	197	257	240	15.77	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165834BS Instrumnet Name : P7
Client Sample ID : LCS834 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 12:59:23 DataFile Name : 030LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	22619925	22858540	22680607	22719690	0.55	cps
Lead	207-1	20616681	20775328	20891371	20761127	0.66	cps
Lead	208-1	92479913	93432697	93977929	93296846	0.81	cps
Lithium	6-1	1822526	1793941	1806048	1807505	0.79	cps
Magnesium	24-2	20609846	20718387	20690331	20672855	0.27	cps
Manganese	55-2	18884958	19124650	18811225	18940278	0.87	cps
Molybdenum	94-1	21410541	21162923	20917067	21163510	1.17	cps
Molybdenum	95-1	31218593	30517019	30518393	30751335	1.32	cps
Molybdenum	96-1	34245426	33428105	33127261	33600264	1.72	cps
Molybdenum	97-1	19349945	19105357	18876639	19110647	1.24	cps
Molybdenum	98-1	49918238	49505104	49002571	49475304	0.93	cps
Neodymium	150-1	323	360	357	347	5.85	cps
Neodymium	150-2	70	93	123	96	27.98	cps
Nickel	60-2	907359	901194	905401	904651	0.35	cps
Phosphorus	31-2	123469	123170	122196	122945	0.54	cps
Potassium	39-2	13396839	13409283	13283545	13363222	0.52	cps
Rhodium	103-1	10247859	10084918	9863483	10065420	1.92	cps
Rhodium	103-2	5966230	5941316	5986354	5964633	0.38	cps
Scandium	45-1	6350304	6159153	6004004	6171154	2.81	cps
Scandium	45-2	514744	512186	511132	512687	0.36	cps
Selenium	82-1	93913	94132	91376	93140	1.64	cps
Selenium	77-2	9627	9717	9426	9590	1.55	cps
Selenium	78-2	32723	32319	32589	32543	0.63	cps
Silicon	28-1	7991641	7791914	7706749	7830101	1.87	cps
Silver	107-1	7931188	7799137	7797589	7842638	0.98	cps
Silver	109-1	7693113	7544293	7595409	7610939	0.99	cps
Sodium	23-2	34043065	34219564	34086804	34116478	0.27	cps
Strontium	86-1	1988212	2007754	1926884	1974284	2.14	cps
Strontium	88-1	17195163	17101609	16710651	17002475	1.51	cps
Sulfur	34-1	632288	621425	609171	620962	1.86	cps
Terbium	159-1	14435645	14032221	13786712	14084859	2.33	cps
Terbium	159-2	9931981	9836482	9918124	9895529	0.52	cps
Thallium	203-1	5918917	5866089	5884663	5889890	0.46	cps
Thallium	205-1	13817601	13853371	13816490	13829154	0.15	cps
Tin	118-1	5189291	5195299	5144865	5176485	0.53	cps
Titanium	47-1	7810535	7740177	7581155	7710622	1.52	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

PB165834BS

Instrumnet Name :

P7

Client Sample ID :

LCS834

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 12:59:23

DataFile Name :

030LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	18339594	18558547	18434515	18444219	0.60	cps
Vanadium	51-2	2075544	2086854	2089434	2083944	0.35	cps
Yttrium	89-1	13489856	13119295	12908477	13172543	2.23	cps
Yttrium	89-2	3383301	3384246	3429664	3399070	0.78	cps
Zinc	66-2	4563550	4533288	4533254	4543364	0.38	cps
Zirconium	90-1	10595193	10488015	10310977	10464728	1.37	cps
Zirconium	91-1	2322870	2295116	2315927	2311304	0.62	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:02:02 DataFile Name : 031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6867094	6806194	6820548	6831279	0.47	cps
Antimony	121-1	3467	2880	2397	2915	18.39	cps
Arsenic	75-2	1117	1070	1183	1123	5.07	cps
Barium	135-1	129377	130346	131052	130259	0.65	cps
Barium	137-1	222964	225056	227778	225266	1.07	cps
Beryllium	9-1	1277	1043	1093	1138	10.80	cps
Bismuth	209-1	7771055	7862690	7979945	7871230	1.33	cps
Bismuth	209-2	6886628	6893267	6849604	6876500	0.34	cps
Bromine	81-1	13730	13940	13890	13853	0.79	cps
Bromine	81-2	597	510	590	566	8.53	cps
Cadmium	108-1	77	83	63	74	13.68	cps
Cadmium	106-1	3797	3801	3801	3799	0.05	cps
Cadmium	111-1	3168	3105	3039	3104	2.07	cps
Calcium	43-1	2801100	2813460	2838855	2817805	0.68	cps
Calcium	44-1	44159891	44992389	45200349	44784210	1.23	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	39629	40307	39642	39859	0.97	cps
Cobalt	59-2	523345	521735	523946	523009	0.22	cps
Copper	63-2	88358	87789	87232	87793	0.64	cps
Dysprosium	156-1	161604	164352	163634	163197	0.87	cps
Dysprosium	156-2	133144	134524	134634	134101	0.62	cps
Erbium	164-1	212067	213084	214775	213309	0.64	cps
Erbium	164-2	157516	155967	155350	156278	0.71	cps
Gadolinium	160-1	173966	176040	176095	175367	0.69	cps
Gadolinium	160-2	133754	133930	135037	134240	0.52	cps
Holmium	165-1	13623525	13631512	13829787	13694942	0.85	cps
Holmium	165-2	10125694	10010077	10095288	10077020	0.59	cps
Indium	115-1	10743223	10860039	11012383	10871882	1.24	cps
Indium	115-2	4085787	4024645	4116174	4075535	1.14	cps
Iron	56-2	955087106	955440332	956891319	955806252	0.10	cps
Iron	57-2	23492594	23412855	23438969	23448139	0.17	cps
Iron	54-2	51028283	52000603	51368246	51465710	0.96	cps
Krypton	83-1	633	607	620	620	2.15	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:02:02 DataFile Name : 031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11418	10327	10114	10620	6.59	cps
Lead	207-1	9523	9297	8783	9201	4.12	cps
Lead	208-1	44866	41825	40467	42386	5.31	cps
Lithium	6-1	1695480	1676109	1614611	1662066	2.54	cps
Magnesium	24-2	17588345	17410834	17677054	17558744	0.77	cps
Manganese	55-2	12939685	13003744	12929718	12957716	0.31	cps
Molybdenum	94-1	11101	10417	10324	10614	4.00	cps
Molybdenum	95-1	6088	4938	4371	5132	17.05	cps
Molybdenum	96-1	17948	16620	16156	16908	5.50	cps
Molybdenum	97-1	3814	3324	2700	3279	17.02	cps
Molybdenum	98-1	9617	7178	6438	7744	21.47	cps
Neodymium	150-1	184263	184048	185418	184576	0.40	cps
Neodymium	150-2	116570	115538	115757	115955	0.47	cps
Nickel	60-2	52893	52809	52542	52748	0.35	cps
Phosphorus	31-2	8026	7992	8089	8036	0.61	cps
Potassium	39-2	455090	454804	454444	454779	0.07	cps
Rhodium	103-1	9601010	9836130	9744107	9727082	1.22	cps
Rhodium	103-2	6015672	6001285	6091571	6036176	0.80	cps
Scandium	45-1	5978933	5968969	5989471	5979124	0.17	cps
Scandium	45-2	522090	521799	525508	523133	0.39	cps
Selenium	82-1	288	300	273	287	4.71	cps
Selenium	77-2	407	377	400	394	3.99	cps
Selenium	78-2	610	730	683	674	8.97	cps
Silicon	28-1	149550134	153008758	153688171	152082354	1.46	cps
Silver	107-1	2230	1920	1423	1858	21.90	cps
Silver	109-1	1890	1727	1297	1638	18.71	cps
Sodium	23-2	8997854	8967781	9070394	9012010	0.59	cps
Strontium	86-1	798093	805941	814457	806164	1.02	cps
Strontium	88-1	7138165	7285047	7233581	7218931	1.03	cps
Sulfur	34-1	10682896	10806327	10811780	10767001	0.68	cps
Terbium	159-1	13882719	13983401	14028034	13964718	0.53	cps
Terbium	159-2	9889245	9906238	9980276	9925253	0.49	cps
Thallium	203-1	1720	1443	1327	1497	13.50	cps
Thallium	205-1	3751	3504	3137	3464	8.91	cps
Tin	118-1	4114	3874	3754	3914	4.68	cps
Titanium	47-1	7453	6675	6481	6870	7.48	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-02DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-07-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:02:02

DataFile Name :

031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	96543	98370	95348	96753	1.57	cps
Vanadium	51-2	1059131	1065537	1066805	1063824	0.39	cps
Yttrium	89-1	16282747	16432334	16473741	16396274	0.61	cps
Yttrium	89-2	4443029	4457537	4418624	4439730	0.44	cps
Zinc	66-2	228098	225902	229599	227866	0.82	cps
Zirconium	90-1	19950	19793	19613	19786	0.85	cps
Zirconium	91-1	4704	4141	4361	4402	6.45	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02DUPDLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:05:13 DataFile Name : 032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6935879	6902433	6844352	6894221	0.67	cps
Antimony	121-1	913	833	890	879	4.68	cps
Arsenic	75-2	1283	1093	1153	1177	8.25	cps
Barium	135-1	129610	132371	130619	130866	1.07	cps
Barium	137-1	228222	229702	231061	229661	0.62	cps
Beryllium	9-1	1083	957	1073	1038	6.79	cps
Bismuth	209-1	7973785	7832804	7979820	7928803	1.05	cps
Bismuth	209-2	6939907	6907857	6899802	6915855	0.31	cps
Bromine	81-1	14421	14164	14531	14372	1.31	cps
Bromine	81-2	570	553	670	598	10.56	cps
Cadmium	108-1	77	60	47	61	24.60	cps
Cadmium	106-1	3991	3994	3844	3943	2.17	cps
Cadmium	111-1	3086	3057	3001	3048	1.42	cps
Calcium	43-1	2853889	2879527	2874908	2869441	0.48	cps
Calcium	44-1	45716498	45968483	46132159	45939047	0.46	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	39114	39304	39669	39362	0.72	cps
Cobalt	59-2	528701	531422	531659	530594	0.31	cps
Copper	63-2	87943	86478	86102	86841	1.12	cps
Dysprosium	156-1	164342	167509	168318	166723	1.26	cps
Dysprosium	156-2	134079	134551	134146	134259	0.19	cps
Erbium	164-1	216248	219195	217642	217695	0.68	cps
Erbium	164-2	159249	158888	157611	158583	0.54	cps
Gadolinium	160-1	176875	180163	178734	178591	0.92	cps
Gadolinium	160-2	137499	136514	135794	136602	0.63	cps
Holmium	165-1	13847363	13963647	13871401	13894137	0.44	cps
Holmium	165-2	10305229	10157319	10026871	10163140	1.37	cps
Indium	115-1	11167486	11051753	11029317	11082852	0.67	cps
Indium	115-2	4198293	4085101	4153463	4145619	1.37	cps
Iron	56-2	968671452	965611132	966580572	966954386	0.16	cps
Iron	57-2	23847621	23881125	24010835	23913194	0.36	cps
Iron	54-2	52153829	52191774	52395703	52247102	0.25	cps
Krypton	83-1	587	610	633	610	3.83	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02DUPDLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:05:13 DataFile Name : 032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	8513	8263	8553	8443	1.86	cps
Lead	207-1	7095	7125	6828	7016	2.33	cps
Lead	208-1	33250	32662	32022	32644	1.88	cps
Lithium	6-1	1673495	1639703	1661988	1658395	1.04	cps
Magnesium	24-2	17796227	17826808	17739465	17787500	0.25	cps
Manganese	55-2	13105475	13175183	13144306	13141655	0.27	cps
Molybdenum	94-1	8039	7652	7842	7844	2.47	cps
Molybdenum	95-1	1840	1657	1553	1683	8.63	cps
Molybdenum	96-1	13857	13997	13777	13877	0.80	cps
Molybdenum	97-1	1233	1093	927	1085	14.16	cps
Molybdenum	98-1	2470	2384	2010	2288	10.69	cps
Neodymium	150-1	184358	188371	188630	187119	1.28	cps
Neodymium	150-2	116883	118052	116786	117240	0.60	cps
Nickel	60-2	53094	53635	53291	53340	0.51	cps
Phosphorus	31-2	8279	8179	8232	8230	0.61	cps
Potassium	39-2	458098	462416	461831	460782	0.51	cps
Rhodium	103-1	9997404	9989912	10022248	10003188	0.17	cps
Rhodium	103-2	6187788	6134030	6147189	6156336	0.46	cps
Scandium	45-1	6123137	6214059	6253033	6196743	1.08	cps
Scandium	45-2	533889	529395	533750	532345	0.48	cps
Selenium	82-1	316	290	322	309	5.51	cps
Selenium	77-2	380	370	433	394	8.63	cps
Selenium	78-2	777	710	720	736	4.89	cps
Silicon	28-1	152869188	155560668	154936714	154455523	0.91	cps
Silver	107-1	720	587	677	661	10.29	cps
Silver	109-1	673	580	590	614	8.34	cps
Sodium	23-2	9107842	9158098	9044679	9103540	0.62	cps
Strontium	86-1	818995	825159	832887	825680	0.84	cps
Strontium	88-1	7282027	7380581	7449912	7370840	1.14	cps
Sulfur	34-1	10758338	11034104	11053995	10948812	1.51	cps
Terbium	159-1	14285448	14269694	14253245	14269462	0.11	cps
Terbium	159-2	10187893	10030110	9962738	10060247	1.15	cps
Thallium	203-1	817	813	817	816	0.24	cps
Thallium	205-1	1873	1793	1693	1787	5.05	cps
Tin	118-1	3480	3517	3524	3507	0.67	cps
Titanium	47-1	6105	5991	5955	6017	1.30	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-02DUPDLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-07-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:05:13

DataFile Name :

032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	94814	96291	95925	95677	0.80	cps
Vanadium	51-2	1078259	1078587	1080369	1079072	0.11	cps
Yttrium	89-1	16681674	16920563	17047099	16883112	1.10	cps
Yttrium	89-2	4576591	4530179	4547231	4551334	0.52	cps
Zinc	66-2	230305	230708	231263	230759	0.21	cps
Zirconium	90-1	17521	17357	17117	17331	1.17	cps
Zirconium	91-1	4091	3954	3814	3953	3.50	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02LDLX25 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224L Dilution Factor : 25
Date & Time Acquired : 2024-12-23 13:08:22 DataFile Name : 033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1482925	1477116	1491100	1483714	0.47	cps
Antimony	121-1	377	407	320	368	11.97	cps
Arsenic	75-2	237	250	220	236	6.38	cps
Barium	135-1	28205	28148	27871	28074	0.64	cps
Barium	137-1	48028	47385	47342	47585	0.81	cps
Beryllium	9-1	267	310	287	288	7.54	cps
Bismuth	209-1	8489818	8284008	8405072	8392966	1.23	cps
Bismuth	209-2	7273877	7244886	7280246	7266336	0.26	cps
Bromine	81-1	14707	14617	14788	14704	0.58	cps
Bromine	81-2	267	233	330	277	17.75	cps
Cadmium	108-1	33	7	27	22	62.43	cps
Cadmium	106-1	3334	3140	3224	3233	3.00	cps
Cadmium	111-1	2387	2260	2331	2326	2.73	cps
Calcium	43-1	621138	635784	633173	630032	1.24	cps
Calcium	44-1	9681035	9592301	9722207	9665181	0.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9983	9593	9857	9811	2.03	cps
Cobalt	59-2	116155	113498	114828	114827	1.16	cps
Copper	63-2	19733	20070	20074	19959	0.98	cps
Dysprosium	156-1	34770	35371	34185	34775	1.71	cps
Dysprosium	156-2	28008	27767	28332	28036	1.01	cps
Erbium	164-1	44156	45290	44926	44790	1.29	cps
Erbium	164-2	32651	32257	32351	32420	0.64	cps
Gadolinium	160-1	36644	37152	36591	36796	0.84	cps
Gadolinium	160-2	28395	28880	28937	28737	1.03	cps
Holmium	165-1	14633197	14259982	14336787	14409989	1.37	cps
Holmium	165-2	10377687	10330373	10413564	10373875	0.40	cps
Indium	115-1	11899955	11742746	11771124	11804608	0.71	cps
Indium	115-2	4332835	4392206	4358974	4361338	0.68	cps
Iron	56-2	209574277	208942530	210850397	209789068	0.46	cps
Iron	57-2	5107571	5096331	5121648	5108517	0.25	cps
Iron	54-2	11298695	11334674	11219968	11284445	0.52	cps
Krypton	83-1	220	363	333	306	24.74	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02LDLX25 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224L Dilution Factor : 25
Date & Time Acquired : 2024-12-23 13:08:22 DataFile Name : 033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2307	2324	2327	2319	0.46	cps
Lead	207-1	2020	1837	1913	1923	4.79	cps
Lead	208-1	9198	8955	8971	9041	1.50	cps
Lithium	6-1	1745546	1718322	1694301	1719390	1.49	cps
Magnesium	24-2	3722199	3786406	3811377	3773327	1.22	cps
Manganese	55-2	2839318	2812728	2819507	2823851	0.49	cps
Molybdenum	94-1	1870	1823	1994	1896	4.63	cps
Molybdenum	95-1	517	507	533	519	2.60	cps
Molybdenum	96-1	3194	3127	3047	3123	2.35	cps
Molybdenum	97-1	367	237	297	300	21.69	cps
Molybdenum	98-1	590	547	533	557	5.32	cps
Neodymium	150-1	38653	39803	39174	39210	1.47	cps
Neodymium	150-2	24181	24184	24087	24151	0.23	cps
Nickel	60-2	12108	12105	11731	11982	1.81	cps
Phosphorus	31-2	2000	1900	1907	1936	2.89	cps
Potassium	39-2	135130	136001	136697	135942	0.58	cps
Rhodium	103-1	10903199	10652131	10745277	10766869	1.18	cps
Rhodium	103-2	6535653	6581042	6576445	6564380	0.38	cps
Scandium	45-1	6531981	6467741	6399577	6466433	1.02	cps
Scandium	45-2	557054	560187	561947	559729	0.44	cps
Selenium	82-1	242	131	116	163	42.26	cps
Selenium	77-2	87	77	93	86	9.80	cps
Selenium	78-2	493	513	480	496	3.39	cps
Silicon	28-1	33147642	33976762	33757889	33627431	1.28	cps
Silver	107-1	260	233	190	228	15.51	cps
Silver	109-1	227	223	193	214	8.56	cps
Sodium	23-2	1947617	1977129	1957471	1960739	0.77	cps
Strontium	86-1	174001	174403	173037	173814	0.40	cps
Strontium	88-1	1560169	1566924	1569284	1565459	0.30	cps
Sulfur	34-1	2517077	2511167	2511516	2513253	0.13	cps
Terbium	159-1	14844814	14742273	14769706	14785598	0.36	cps
Terbium	159-2	10251716	10422324	10242834	10305625	0.98	cps
Thallium	203-1	563	477	493	511	9.00	cps
Thallium	205-1	1140	1063	1120	1108	3.59	cps
Tin	118-1	2124	2100	2167	2130	1.59	cps
Titanium	47-1	1340	1327	1253	1307	3.57	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-02LDLX25

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-07-121224L

Dilution Factor :

25

Date & Time Acquired :

2024-12-23 13:08:22

DataFile Name :

033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	19324	19541	19261	19375	0.76	cps
Vanadium	51-2	229329	230422	230183	229978	0.25	cps
Yttrium	89-1	14789712	14471431	14544546	14601897	1.14	cps
Yttrium	89-2	3927608	3913540	3924071	3921739	0.19	cps
Zinc	66-2	50967	51294	52197	51486	1.24	cps
Zirconium	90-1	4067	4204	4237	4170	2.16	cps
Zirconium	91-1	947	940	870	919	4.62	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02MSDLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:11:31 DataFile Name : 034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7053961	7039403	7003615	7032326	0.37	cps
Antimony	121-1	1404552	1429421	1425904	1419959	0.95	cps
Arsenic	75-2	77397	76073	76559	76676	0.87	cps
Barium	135-1	1933790	1930479	1915127	1926465	0.52	cps
Barium	137-1	3241860	3298241	3219511	3253204	1.25	cps
Beryllium	9-1	177119	176762	175724	176535	0.41	cps
Bismuth	209-1	7988561	7953805	8005856	7982741	0.33	cps
Bismuth	209-2	6918325	6932664	6917076	6922689	0.13	cps
Bromine	81-1	14414	14574	14537	14508	0.58	cps
Bromine	81-2	553	653	587	598	8.52	cps
Cadmium	108-1	27997	27326	27653	27659	1.21	cps
Cadmium	106-1	43502	43612	43140	43418	0.57	cps
Cadmium	111-1	383638	390162	387261	387020	0.84	cps
Calcium	43-1	3043798	3064925	2989158	3032627	1.29	cps
Calcium	44-1	48335696	49347221	48151236	48611384	1.32	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	602596	602910	597900	601135	0.47	cps
Cobalt	59-2	1413500	1411464	1407154	1410706	0.23	cps
Copper	63-2	5719620	5665170	5654785	5679858	0.61	cps
Dysprosium	156-1	155736	159022	159663	158140	1.33	cps
Dysprosium	156-2	127714	127610	128279	127868	0.28	cps
Erbium	164-1	203983	206267	206973	205741	0.76	cps
Erbium	164-2	148931	150302	148072	149101	0.75	cps
Gadolinium	160-1	166760	170267	170611	169212	1.26	cps
Gadolinium	160-2	128015	129522	127433	128323	0.84	cps
Holmium	165-1	14137120	13967689	14026269	14043693	0.61	cps
Holmium	165-2	10139877	10158863	10100111	10132950	0.30	cps
Indium	115-1	11186868	11300160	11152623	11213217	0.69	cps
Indium	115-2	4148959	3999899	4061984	4070281	1.84	cps
Iron	56-2	933011133	940474973	933806359	935764155	0.44	cps
Iron	57-2	23096239	23240793	22997165	23111399	0.53	cps
Iron	54-2	50544611	50845998	50710406	50700338	0.30	cps
Krypton	83-1	620	600	707	642	8.83	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02MSDLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:11:31 DataFile Name : 034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4389635	4351367	4329955	4356986	0.69	cps
Lead	207-1	3995297	4055364	4094024	4048228	1.23	cps
Lead	208-1	17873133	18095091	18077706	18015310	0.69	cps
Lithium	6-1	1666959	1630082	1673463	1656834	1.41	cps
Magnesium	24-2	20665567	20590600	20526783	20594317	0.34	cps
Manganese	55-2	15868026	16070821	15900837	15946561	0.68	cps
Molybdenum	94-1	3320955	3327860	3308842	3319219	0.29	cps
Molybdenum	95-1	4155455	4159208	4216278	4176980	0.82	cps
Molybdenum	96-1	4657873	4663109	4655001	4658661	0.09	cps
Molybdenum	97-1	2613250	2596346	2587024	2598873	0.51	cps
Molybdenum	98-1	6678548	6688720	6677019	6681429	0.10	cps
Neodymium	150-1	176219	178487	180274	178327	1.14	cps
Neodymium	150-2	110982	110176	110609	110589	0.36	cps
Nickel	60-2	273158	273532	273458	273383	0.07	cps
Phosphorus	31-2	7769	7765	7609	7714	1.19	cps
Potassium	39-2	3482401	3445865	3426929	3451732	0.82	cps
Rhodium	103-1	10317495	10105552	10210225	10211090	1.04	cps
Rhodium	103-2	6146821	6095186	6039585	6093864	0.88	cps
Scandium	45-1	6267201	6349183	6239930	6285438	0.90	cps
Scandium	45-2	531184	529032	529409	529875	0.22	cps
Selenium	82-1	22447	22886	22680	22671	0.97	cps
Selenium	77-2	2644	2737	2710	2697	1.78	cps
Selenium	78-2	8246	8909	8749	8635	4.01	cps
Silicon	28-1	147137368	149590494	146396244	147708036	1.13	cps
Silver	107-1	3214	3277	3240	3244	0.98	cps
Silver	109-1	1837	1957	1773	1856	5.02	cps
Sodium	23-2	15196736	15173294	14989680	15119903	0.75	cps
Strontium	86-1	1240111	1249740	1254824	1248225	0.60	cps
Strontium	88-1	11098541	11264110	11259481	11207377	0.84	cps
Sulfur	34-1	10372116	10508172	10326679	10402323	0.91	cps
Terbium	159-1	14337798	14475771	14392232	14401934	0.48	cps
Terbium	159-2	9907571	10072828	10049619	10010006	0.89	cps
Thallium	203-1	1265371	1284951	1278378	1276233	0.78	cps
Thallium	205-1	3326627	3327465	3293728	3315940	0.58	cps
Tin	118-1	1092167	1119963	1111738	1107956	1.29	cps
Titanium	47-1	664358	669535	664137	666010	0.46	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02MSDLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:11:31 DataFile Name : 034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4453018	4480156	4578386	4503853	1.46	cps
Vanadium	51-2	1567822	1536784	1534069	1546225	1.21	cps
Yttrium	89-1	17033813	16829614	16905174	16922867	0.61	cps
Yttrium	89-2	4426531	4399372	4466536	4430813	0.76	cps
Zinc	66-2	1094996	1095957	1083236	1091397	0.65	cps
Zirconium	90-1	2566571	2614752	2589617	2590313	0.93	cps
Zirconium	91-1	558742	567140	561284	562389	0.77	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02MSDDLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:14:22 DataFile Name : 035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6990010	6944826	7004949	6979928	0.45	cps
Antimony	121-1	1390051	1414186	1404904	1403047	0.87	cps
Arsenic	75-2	75518	75601	74908	75342	0.50	cps
Barium	135-1	1875699	1905242	1892863	1891268	0.78	cps
Barium	137-1	3209487	3235153	3224320	3222987	0.40	cps
Beryllium	9-1	173590	172532	174042	173388	0.45	cps
Bismuth	209-1	7968831	8100426	8045087	8038115	0.82	cps
Bismuth	209-2	6809478	6898387	6855493	6854453	0.65	cps
Bromine	81-1	13990	14160	14447	14199	1.63	cps
Bromine	81-2	490	547	577	538	8.18	cps
Cadmium	108-1	27025	27339	27499	27288	0.88	cps
Cadmium	106-1	41980	43201	42689	42623	1.44	cps
Cadmium	111-1	376052	380409	384004	380155	1.05	cps
Calcium	43-1	3022266	3026157	3024522	3024315	0.06	cps
Calcium	44-1	47815564	48410388	48004921	48076958	0.63	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	590658	594248	592333	592413	0.30	cps
Cobalt	59-2	1382707	1382836	1386458	1384000	0.15	cps
Copper	63-2	5680694	5666111	5719045	5688617	0.48	cps
Dysprosium	156-1	155725	157317	159332	157458	1.15	cps
Dysprosium	156-2	125882	126029	125147	125686	0.38	cps
Erbium	164-1	202029	207727	203834	204530	1.42	cps
Erbium	164-2	148837	148179	149402	148806	0.41	cps
Gadolinium	160-1	167751	169256	170520	169175	0.82	cps
Gadolinium	160-2	127955	126512	127925	127464	0.65	cps
Holmium	165-1	13912464	14194615	14090416	14065831	1.01	cps
Holmium	165-2	10194149	10004720	10064578	10087815	0.96	cps
Indium	115-1	11304490	11267709	11248745	11273648	0.25	cps
Indium	115-2	4099818	4057897	4046655	4068123	0.69	cps
Iron	56-2	926280386	924905506	931207079	927464324	0.36	cps
Iron	57-2	22847307	22794036	22686453	22775932	0.36	cps
Iron	54-2	50110618	50039399	50235246	50128421	0.20	cps
Krypton	83-1	607	557	617	593	5.42	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02MSDDLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:14:22 DataFile Name : 035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4433920	4354396	4388152	4392156	0.91	cps
Lead	207-1	4030703	4029297	4048564	4036188	0.27	cps
Lead	208-1	18028401	17941789	18216236	18062142	0.78	cps
Lithium	6-1	1673087	1714444	1647470	1678334	2.01	cps
Magnesium	24-2	20508019	20307033	20510414	20441822	0.57	cps
Manganese	55-2	15777145	15764624	15820001	15787257	0.18	cps
Molybdenum	94-1	3268603	3281091	3293514	3281070	0.38	cps
Molybdenum	95-1	4134754	4125215	4168108	4142693	0.54	cps
Molybdenum	96-1	4624212	4610869	4621997	4619026	0.15	cps
Molybdenum	97-1	2553625	2578424	2608802	2580284	1.07	cps
Molybdenum	98-1	6619763	6658218	6650577	6642853	0.31	cps
Neodymium	150-1	176111	177823	178180	177371	0.62	cps
Neodymium	150-2	108873	110754	108748	109458	1.03	cps
Nickel	60-2	268951	268024	267374	268117	0.30	cps
Phosphorus	31-2	7379	7985	7929	7764	4.32	cps
Potassium	39-2	3404065	3455083	3472009	3443719	1.03	cps
Rhodium	103-1	10125325	10174153	10089673	10129717	0.42	cps
Rhodium	103-2	6116029	6086220	6105256	6102502	0.25	cps
Scandium	45-1	6216554	6222076	6194034	6210888	0.24	cps
Scandium	45-2	534935	534323	531207	533488	0.37	cps
Selenium	82-1	22464	22558	22695	22572	0.52	cps
Selenium	77-2	2680	2644	2587	2637	1.78	cps
Selenium	78-2	8049	8446	8049	8181	2.80	cps
Silicon	28-1	145484131	145856054	145888908	145743031	0.15	cps
Silver	107-1	3254	3244	3447	3315	3.46	cps
Silver	109-1	1827	1847	1883	1852	1.55	cps
Sodium	23-2	14998947	15154002	15031536	15061495	0.54	cps
Strontium	86-1	1233739	1245367	1238808	1239305	0.47	cps
Strontium	88-1	11118772	11182014	10963016	11087934	1.02	cps
Sulfur	34-1	10301174	10284533	10447961	10344556	0.87	cps
Terbium	159-1	14383783	14357833	14354002	14365206	0.11	cps
Terbium	159-2	10140500	10027444	10072452	10080132	0.56	cps
Thallium	203-1	1268057	1285494	1278848	1277466	0.69	cps
Thallium	205-1	3262149	3287860	3278787	3276265	0.40	cps
Tin	118-1	1090232	1107159	1120399	1105930	1.37	cps
Titanium	47-1	650432	662296	656187	656305	0.90	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02MSDDLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:14:22 DataFile Name : 035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4478614	4547404	4541504	4522507	0.84	cps
Vanadium	51-2	1536494	1540422	1520463	1532460	0.69	cps
Yttrium	89-1	16933930	16885155	16702703	16840596	0.72	cps
Yttrium	89-2	4419700	4391612	4446941	4419418	0.63	cps
Zinc	66-2	1084309	1086959	1085548	1085605	0.12	cps
Zirconium	90-1	2531488	2589584	2544891	2555321	1.19	cps
Zirconium	91-1	549184	551979	560300	553821	1.04	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02ADLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224A Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:17:16 DataFile Name : 036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6985489	7022598	6987723	6998603	0.30	cps
Antimony	121-1	1420849	1426803	1435640	1427764	0.52	cps
Arsenic	75-2	75722	77145	75487	76118	1.18	cps
Barium	135-1	1882778	1940592	1940814	1921395	1.74	cps
Barium	137-1	3262312	3307582	3349794	3306563	1.32	cps
Beryllium	9-1	174973	176671	176628	176091	0.55	cps
Bismuth	209-1	8076013	8075389	8133829	8095077	0.41	cps
Bismuth	209-2	6852434	6916785	6893683	6887634	0.47	cps
Bromine	81-1	14507	14844	14240	14531	2.08	cps
Bromine	81-2	580	527	603	570	6.89	cps
Cadmium	108-1	27162	27653	27469	27428	0.90	cps
Cadmium	106-1	42943	43315	43044	43100	0.45	cps
Cadmium	111-1	383355	390564	389129	387683	0.98	cps
Calcium	43-1	3025346	3028453	3040137	3031312	0.26	cps
Calcium	44-1	48955774	48761681	48638621	48785359	0.33	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	602453	601526	597436	600471	0.44	cps
Cobalt	59-2	1470642	1448918	1399406	1439655	2.54	cps
Copper	63-2	5779471	5748770	5709984	5746075	0.61	cps
Dysprosium	156-1	156515	161520	160651	159562	1.68	cps
Dysprosium	156-2	128807	128410	128602	128607	0.15	cps
Erbium	164-1	204196	207126	209961	207094	1.39	cps
Erbium	164-2	150534	150525	149591	150217	0.36	cps
Gadolinium	160-1	170369	173247	172305	171973	0.85	cps
Gadolinium	160-2	128062	128798	128718	128526	0.31	cps
Holmium	165-1	14204756	14005090	14209369	14139739	0.82	cps
Holmium	165-2	10084117	10221866	10243179	10183054	0.85	cps
Indium	115-1	11302671	11154583	11268423	11241892	0.69	cps
Indium	115-2	4143172	4146529	4152491	4147397	0.11	cps
Iron	56-2	951463932	938003106	936119053	941862030	0.89	cps
Iron	57-2	23432054	23303416	22875399	23203623	1.26	cps
Iron	54-2	51407374	50675871	50404779	50829341	1.02	cps
Krypton	83-1	630	563	597	597	5.59	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02ADLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224A Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:17:16 DataFile Name : 036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4405783	4492931	4551086	4483267	1.63	cps
Lead	207-1	4127101	4179047	4160682	4155610	0.63	cps
Lead	208-1	18300434	18541466	18685765	18509221	1.05	cps
Lithium	6-1	1668952	1661441	1647652	1659349	0.65	cps
Magnesium	24-2	20511403	20651305	20639191	20600633	0.38	cps
Manganese	55-2	16256855	16039171	15967234	16087753	0.94	cps
Molybdenum	94-1	3300027	3362303	3315878	3326069	0.97	cps
Molybdenum	95-1	4202445	4222277	4227981	4217568	0.32	cps
Molybdenum	96-1	4670740	4722225	4631155	4674706	0.98	cps
Molybdenum	97-1	2612823	2642496	2600662	2618660	0.82	cps
Molybdenum	98-1	6652582	6823364	6749953	6741966	1.27	cps
Neodymium	150-1	177586	181147	180725	179820	1.08	cps
Neodymium	150-2	112739	111116	110808	111555	0.93	cps
Nickel	60-2	279312	273430	271282	274675	1.51	cps
Phosphorus	31-2	7839	7795	7805	7813	0.29	cps
Potassium	39-2	3494657	3402310	3502674	3466547	1.61	cps
Rhodium	103-1	10130150	10080322	10129816	10113429	0.28	cps
Rhodium	103-2	6208561	6151575	6128679	6162938	0.67	cps
Scandium	45-1	6357367	6192801	6151109	6233759	1.75	cps
Scandium	45-2	534551	529314	532255	532040	0.49	cps
Selenium	82-1	22416	22802	22774	22664	0.95	cps
Selenium	77-2	2560	2637	2817	2671	4.93	cps
Selenium	78-2	8493	8486	8372	8450	0.80	cps
Silicon	28-1	144385281	147874028	148815854	147025054	1.59	cps
Silver	107-1	3627	3387	3357	3457	4.28	cps
Silver	109-1	1943	1790	2023	1919	6.18	cps
Sodium	23-2	14990851	15164710	15157750	15104437	0.65	cps
Strontium	86-1	1239630	1246197	1249701	1245176	0.41	cps
Strontium	88-1	11098742	11161330	11278806	11179626	0.82	cps
Sulfur	34-1	10361855	10441931	10440319	10414702	0.44	cps
Terbium	159-1	14537003	14367878	14471209	14458696	0.59	cps
Terbium	159-2	10019970	10176890	10038785	10078548	0.85	cps
Thallium	203-1	1283685	1289160	1307768	1293538	0.98	cps
Thallium	205-1	3277991	3328262	3324469	3310240	0.85	cps
Tin	118-1	1117439	1119527	1131750	1122905	0.69	cps
Titanium	47-1	662780	672074	671783	668879	0.79	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-02ADLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-07-121224A Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:17:16 DataFile Name : 036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4464819	4523412	4566380	4518203	1.13	cps
Vanadium	51-2	1584956	1536536	1569098	1563530	1.58	cps
Yttrium	89-1	16761358	16863636	16795119	16806704	0.31	cps
Yttrium	89-2	4489620	4434926	4434242	4452929	0.71	cps
Zinc	66-2	1109780	1108721	1106888	1108463	0.13	cps
Zirconium	90-1	2567969	2622659	2602602	2597743	1.07	cps
Zirconium	91-1	558223	565538	564054	562605	0.69	cps

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCV042Instrumnet Name :P7

Client Sample ID :CCV042Dilution Factor :1

Date & Time Acquired :2024-12-23 13:20:07DataFile Name :037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	13811743	13831258	13805860	13816287	0.10	cps
Antimony	121-1	6119446	6177301	6155186	6150644	0.47	cps
Arsenic	75-2	300010	299140	296988	298713	0.52	cps
Barium	135-1	7928241	8055060	7960521	7981274	0.83	cps
Barium	137-1	13711000	13832919	13707371	13750430	0.52	cps
Beryllium	9-1	719829	728652	728068	725517	0.68	cps
Bismuth	209-1	7778527	7654633	7669992	7701050	0.88	cps
Bismuth	209-2	6611265	6527392	6583751	6574136	0.65	cps
Bromine	81-1	12612	12839	12816	12756	0.98	cps
Bromine	81-2	100	120	127	116	12.01	cps
Cadmium	108-1	107518	106984	107793	107431	0.38	cps
Cadmium	106-1	152935	154383	155155	154158	0.73	cps
Cadmium	111-1	1452713	1460322	1457609	1456881	0.26	cps
Calcium	43-1	8027494	8002666	8085078	8038413	0.53	cps
Calcium	44-1	129006165	127687415	129466238	128719939	0.72	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2383799	2392911	2369465	2382058	0.50	cps
Cobalt	59-2	3623496	3670445	3682244	3658728	0.85	cps
Copper	63-2	26058968	26229462	26212404	26166945	0.36	cps
Dysprosium	156-1	327	383	343	351	8.29	cps
Dysprosium	156-2	443	517	513	491	8.43	cps
Erbium	164-1	400	410	323	378	12.55	cps
Erbium	164-2	177	207	257	213	18.94	cps
Gadolinium	160-1	250	293	263	269	8.26	cps
Gadolinium	160-2	567	597	643	602	6.42	cps
Holmium	165-1	13899615	13701321	13653492	13751476	0.95	cps
Holmium	165-2	9928468	9971455	9925952	9941958	0.26	cps
Indium	115-1	10759354	10482817	10403206	10548459	1.77	cps
Indium	115-2	3861133	3859227	3870492	3863617	0.16	cps
Iron	56-2	568849098	565442658	562868058	565719938	0.53	cps
Iron	57-2	14072288	13934864	13899795	13968982	0.65	cps
Iron	54-2	30554350	30356568	30674975	30528631	0.53	cps
Krypton	83-1	233	213	230	226	4.75	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV042 Instrumnet Name : P7
Client Sample ID : CCV042 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:20:07 DataFile Name : 037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	22466516	22590911	22430483	22495970	0.37	cps
Lead	207-1	20442206	20457088	20728126	20542473	0.78	cps
Lead	208-1	92924299	92449187	92876263	92749916	0.28	cps
Lithium	6-1	1661152	1630253	1651520	1647642	0.96	cps
Magnesium	24-2	107415668	107297065	106872318	107195017	0.27	cps
Manganese	55-2	19178556	19024034	19025025	19075872	0.47	cps
Molybdenum	94-1	21560380	21483787	21599574	21547914	0.27	cps
Molybdenum	95-1	31182206	31113087	31382557	31225950	0.45	cps
Molybdenum	96-1	34073657	33650079	34190314	33971350	0.84	cps
Molybdenum	97-1	19313051	19073895	19340098	19242348	0.76	cps
Molybdenum	98-1	50029776	49589531	49729001	49782769	0.45	cps
Neodymium	150-1	533	530	543	536	1.30	cps
Neodymium	150-2	153	167	167	162	4.74	cps
Nickel	60-2	880787	885196	875868	880617	0.53	cps
Phosphorus	31-2	122384	122230	123130	122581	0.39	cps
Potassium	39-2	68026581	68719424	68629612	68458539	0.55	cps
Rhodium	103-1	9323413	9293253	9255829	9290832	0.36	cps
Rhodium	103-2	5662087	5738005	5711512	5703868	0.68	cps
Scandium	45-1	6030953	5955137	5813652	5933247	1.86	cps
Scandium	45-2	514897	509965	512651	512504	0.48	cps
Selenium	82-1	87027	87081	88061	87390	0.67	cps
Selenium	77-2	9570	8906	9063	9180	3.78	cps
Selenium	78-2	31320	31383	30956	31220	0.74	cps
Silicon	28-1	3550485	3557911	3596014	3568136	0.68	cps
Silver	107-1	7463838	7365080	7499970	7442963	0.94	cps
Silver	109-1	7072647	7157027	7104636	7111437	0.60	cps
Sodium	23-2	172664217	171595724	173058271	172439404	0.44	cps
Strontium	86-1	1976549	1958481	1967417	1967483	0.46	cps
Strontium	88-1	17214606	17236513	17014614	17155244	0.71	cps
Sulfur	34-1	585104	591684	595833	590874	0.92	cps
Terbium	159-1	13976923	14213531	13820829	14003761	1.41	cps
Terbium	159-2	9797369	9775381	9783568	9785439	0.11	cps
Thallium	203-1	5877417	5864215	5759663	5833765	1.11	cps
Thallium	205-1	13882226	13766199	13829462	13825962	0.42	cps
Tin	118-1	5107851	5105240	5124358	5112483	0.20	cps
Titanium	47-1	7503812	7550368	7555355	7536512	0.38	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV042 Instrumnet Name : P7
Client Sample ID : CCV042 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:20:07 DataFile Name : 037CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	18553202	19066704	18878754	18832887	1.38	cps
Vanadium	51-2	2150694	2125859	2183265	2153273	1.34	cps
Yttrium	89-1	12898876	12699649	12593506	12730677	1.22	cps
Yttrium	89-2	3441205	3487193	3444270	3457556	0.74	cps
Zinc	66-2	4301413	4309327	4292415	4301052	0.20	cps
Zirconium	90-1	10607326	10481378	10558599	10549101	0.60	cps
Zirconium	91-1	2323658	2325040	2350914	2333204	0.66	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB042 Instrumnet Name : P7
Client Sample ID : CCB042 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:23:36 DataFile Name : 038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1067	940	890	966	9.43	cps
Antimony	121-1	2267	2104	1737	2036	13.33	cps
Arsenic	75-2	30	17	30	26	30.11	cps
Barium	135-1	923	880	760	854	9.90	cps
Barium	137-1	1633	1407	1227	1422	14.33	cps
Beryllium	9-1	237	213	170	207	16.37	cps
Bismuth	209-1	8612297	8461681	8515604	8529861	0.89	cps
Bismuth	209-2	7377812	7390716	7295355	7354628	0.70	cps
Bromine	81-1	13159	13173	13223	13185	0.25	cps
Bromine	81-2	287	260	227	258	11.66	cps
Cadmium	108-1	40	50	7	32	70.41	cps
Cadmium	106-1	3040	3084	2937	3020	2.50	cps
Cadmium	111-1	2310	2350	2211	2291	3.12	cps
Calcium	43-1	1363	1197	940	1167	18.28	cps
Calcium	44-1	25805	24473	21615	23965	8.93	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1467	1430	1537	1478	3.67	cps
Cobalt	59-2	340	343	267	317	13.68	cps
Copper	63-2	2834	2510	2244	2529	11.68	cps
Dysprosium	156-1	13	23	23	20	28.87	cps
Dysprosium	156-2	0	3	3	2	86.60	cps
Erbium	164-1	57	43	50	50	13.34	cps
Erbium	164-2	30	37	50	39	26.18	cps
Gadolinium	160-1	20	50	83	51	61.98	cps
Gadolinium	160-2	427	450	393	423	6.73	cps
Holmium	165-1	14188743	14026899	13850394	14022012	1.21	cps
Holmium	165-2	10236068	10181853	9935502	10117808	1.58	cps
Indium	115-1	11512899	11539117	11472050	11508022	0.29	cps
Indium	115-2	4241349	4252418	4235968	4243245	0.20	cps
Iron	56-2	67400	64424	59537	63787	6.22	cps
Iron	57-2	1930	2050	1780	1920	7.05	cps
Iron	54-2	5124	4791	4341	4752	8.28	cps
Krypton	83-1	217	207	173	199	11.41	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB042 Instrumnet Name : P7
Client Sample ID : CCB042 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:23:36 DataFile Name : 038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3337	2944	2697	2993	10.79	cps
Lead	207-1	3110	2797	2327	2745	14.37	cps
Lead	208-1	13740	12312	10905	12319	11.50	cps
Lithium	6-1	1825741	1807227	1790641	1807870	0.97	cps
Magnesium	24-2	7749	7238	6882	7290	5.98	cps
Manganese	55-2	1710	1627	1400	1579	10.16	cps
Molybdenum	94-1	3390	2940	2367	2899	17.69	cps
Molybdenum	95-1	4304	3684	2924	3637	19.01	cps
Molybdenum	96-1	4511	4134	3520	4055	12.33	cps
Molybdenum	97-1	2567	2217	1997	2260	12.72	cps
Molybdenum	98-1	6678	5985	5031	5898	14.02	cps
Neodymium	150-1	7	3	3	4	43.40	cps
Neodymium	150-2	10	10	3	8	49.52	cps
Nickel	60-2	497	337	403	412	19.50	cps
Phosphorus	31-2	203	193	217	204	5.72	cps
Potassium	39-2	50865	50875	49503	50414	1.56	cps
Rhodium	103-1	10625024	10603426	10556265	10594905	0.33	cps
Rhodium	103-2	6427874	6497668	6345956	6423833	1.18	cps
Scandium	45-1	6341489	6244904	6187699	6258031	1.24	cps
Scandium	45-2	527514	528811	528470	528265	0.13	cps
Selenium	82-1	135	129	166	144	13.84	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	447	427	447	440	2.62	cps
Silicon	28-1	621638	619011	622265	620971	0.28	cps
Silver	107-1	1380	1270	1023	1225	14.92	cps
Silver	109-1	1393	1127	973	1165	18.25	cps
Sodium	23-2	38896	38140	36927	37988	2.61	cps
Strontium	86-1	603	543	497	548	9.76	cps
Strontium	88-1	2420	2337	2013	2257	9.52	cps
Sulfur	34-1	166550	164518	164748	165272	0.67	cps
Terbium	159-1	14755549	14447512	14363316	14522125	1.42	cps
Terbium	159-2	10070743	10181697	10154620	10135687	0.57	cps
Thallium	203-1	1127	1073	990	1063	6.48	cps
Thallium	205-1	2827	2610	2380	2606	8.57	cps
Tin	118-1	2274	2060	2040	2125	6.09	cps
Titanium	47-1	1043	913	707	888	19.12	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCB042

Instrumnet Name :

P7

Client Sample ID :

CCB042

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 13:23:36

DataFile Name :

038CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2000	2024	1627	1883	11.82	cps
Vanadium	51-2	140	167	127	144	14.10	cps
Yttrium	89-1	13554461	13431511	13220922	13402298	1.26	cps
Yttrium	89-2	3548130	3544283	3549728	3547380	0.08	cps
Zinc	66-2	500	513	537	517	3.59	cps
Zirconium	90-1	2030	2003	1793	1942	6.67	cps
Zirconium	91-1	427	457	353	412	12.90	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-04DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-08-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:27:13 DataFile Name : 039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8281228	8262517	8205362	8249703	0.48	cps
Antimony	121-1	943	1047	993	994	5.20	cps
Arsenic	75-2	1350	1130	1213	1231	9.02	cps
Barium	135-1	119590	121119	122477	121062	1.19	cps
Barium	137-1	208840	210866	210271	209993	0.50	cps
Beryllium	9-1	657	663	603	641	5.13	cps
Bismuth	209-1	8089520	8146274	7966542	8067446	1.14	cps
Bismuth	209-2	6947399	7001573	6918117	6955696	0.61	cps
Bromine	81-1	13463	13390	14013	13622	2.50	cps
Bromine	81-2	470	507	480	486	3.90	cps
Cadmium	108-1	37	50	53	47	18.89	cps
Cadmium	106-1	3994	3630	3490	3705	7.01	cps
Cadmium	111-1	3117	2833	2733	2894	6.88	cps
Calcium	43-1	1869345	1865482	1844085	1859637	0.73	cps
Calcium	44-1	29732040	29612765	30080004	29808269	0.81	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	62629	63048	62984	62887	0.36	cps
Cobalt	59-2	453317	455871	460137	456441	0.75	cps
Copper	63-2	149683	150157	148097	149313	0.72	cps
Dysprosium	156-1	144956	146508	145101	145521	0.59	cps
Dysprosium	156-2	117201	116206	117597	117001	0.61	cps
Erbium	164-1	171769	174434	174015	173406	0.83	cps
Erbium	164-2	124552	124599	126032	125061	0.67	cps
Gadolinium	160-1	152489	152975	154120	153195	0.55	cps
Gadolinium	160-2	116395	115766	116106	116089	0.27	cps
Holmium	165-1	14016604	13948645	13987533	13984261	0.24	cps
Holmium	165-2	10117249	10127104	10009276	10084543	0.65	cps
Indium	115-1	11198954	11123076	11167651	11163227	0.34	cps
Indium	115-2	4103523	4032305	4088856	4074895	0.92	cps
Iron	56-2	760356682	763269375	766576389	763400815	0.41	cps
Iron	57-2	18700595	18777572	18834966	18771044	0.36	cps
Iron	54-2	41010838	41092319	41307154	41136770	0.37	cps
Krypton	83-1	460	457	520	479	7.44	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-04DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-08-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:27:13 DataFile Name : 039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	13884	14041	14074	14000	0.73	cps
Lead	207-1	11692	11515	12045	11751	2.30	cps
Lead	208-1	54680	55549	56403	55544	1.55	cps
Lithium	6-1	1735550	1705776	1695769	1712365	1.21	cps
Magnesium	24-2	19039945	19034675	19044864	19039828	0.03	cps
Manganese	55-2	7260508	7263557	7370379	7298148	0.86	cps
Molybdenum	94-1	6251	6458	6135	6281	2.61	cps
Molybdenum	95-1	1017	1073	1120	1070	4.84	cps
Molybdenum	96-1	10340	10664	10170	10392	2.41	cps
Molybdenum	97-1	780	680	730	730	6.85	cps
Molybdenum	98-1	1493	1390	1580	1488	6.39	cps
Neodymium	150-1	171344	173608	174647	173200	0.98	cps
Neodymium	150-2	107298	107459	106642	107133	0.40	cps
Nickel	60-2	103343	104799	103944	104029	0.70	cps
Phosphorus	31-2	14917	15491	15081	15163	1.95	cps
Potassium	39-2	518133	522257	525709	522033	0.73	cps
Rhodium	103-1	10038003	10010879	9953822	10000901	0.43	cps
Rhodium	103-2	6145680	6039796	6108028	6097835	0.88	cps
Scandium	45-1	6159783	6084332	6044631	6096249	0.96	cps
Scandium	45-2	517119	516992	517768	517293	0.08	cps
Selenium	82-1	312	314	323	316	1.96	cps
Selenium	77-2	270	283	343	299	13.07	cps
Selenium	78-2	673	650	630	651	3.33	cps
Silicon	28-1	133504265	133962051	134608878	134025065	0.41	cps
Silver	107-1	693	613	650	652	6.14	cps
Silver	109-1	540	563	520	541	4.01	cps
Sodium	23-2	14986676	15060693	15028129	15025166	0.25	cps
Strontium	86-1	640079	642438	646034	642851	0.47	cps
Strontium	88-1	5774743	5861437	5742686	5792955	1.06	cps
Sulfur	34-1	10107969	10019956	10153634	10093853	0.67	cps
Terbium	159-1	14255423	14155811	14066921	14159385	0.67	cps
Terbium	159-2	10055665	9816991	9965686	9946114	1.21	cps
Thallium	203-1	807	773	710	763	6.43	cps
Thallium	205-1	1877	1920	1733	1843	5.30	cps
Tin	118-1	3347	3337	3447	3377	1.80	cps
Titanium	47-1	9550	9240	9483	9424	1.73	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-04DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-08-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:27:13

DataFile Name :

039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	85915	87032	84694	85880	1.36	cps
Vanadium	51-2	1075085	1082104	1069006	1075398	0.61	cps
Yttrium	89-1	15922913	15874366	15839072	15878784	0.27	cps
Yttrium	89-2	4196037	4175757	4181284	4184359	0.25	cps
Zinc	66-2	270923	268609	270318	269950	0.44	cps
Zirconium	90-1	13920	14564	14444	14309	2.39	cps
Zirconium	91-1	3237	3521	3264	3341	4.69	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-06DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-09-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:30:23 DataFile Name : 040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4422759	4350815	4376757	4383444	0.83	cps
Antimony	121-1	650	673	543	622	11.14	cps
Arsenic	75-2	1497	1323	1387	1402	6.26	cps
Barium	135-1	130700	131127	130121	130649	0.39	cps
Barium	137-1	228724	229874	230066	229555	0.32	cps
Beryllium	9-1	747	743	743	744	0.26	cps
Bismuth	209-1	8013078	8031080	8079114	8041091	0.42	cps
Bismuth	209-2	6885109	6897367	6870499	6884325	0.20	cps
Bromine	81-1	13603	13423	13780	13602	1.31	cps
Bromine	81-2	587	550	533	557	4.90	cps
Cadmium	108-1	50	70	43	54	25.49	cps
Cadmium	106-1	3884	3911	4051	3948	2.27	cps
Cadmium	111-1	2990	2922	3038	2984	1.97	cps
Calcium	43-1	3289860	3243838	3295749	3276482	0.87	cps
Calcium	44-1	52002096	51609311	52521429	52044279	0.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21339	21378	21172	21296	0.52	cps
Cobalt	59-2	422518	422315	420678	421837	0.24	cps
Copper	63-2	20064	20077	20497	20213	1.22	cps
Dysprosium	156-1	165007	166008	166227	165747	0.39	cps
Dysprosium	156-2	131912	132497	134395	132935	0.98	cps
Erbium	164-1	219981	221346	221684	221004	0.41	cps
Erbium	164-2	161036	160093	161707	160946	0.50	cps
Gadolinium	160-1	176952	179639	181682	179424	1.32	cps
Gadolinium	160-2	135979	134828	135454	135420	0.43	cps
Holmium	165-1	13954974	13875100	13889092	13906388	0.31	cps
Holmium	165-2	10008589	10151333	10188640	10116187	0.94	cps
Indium	115-1	11206512	11098013	11131694	11145406	0.50	cps
Indium	115-2	4049750	4064747	3991089	4035195	0.96	cps
Iron	56-2	962927532	956320546	961669479	960305852	0.37	cps
Iron	57-2	23656773	23531755	23666463	23618330	0.32	cps
Iron	54-2	51612371	51480121	51982286	51691593	0.50	cps
Krypton	83-1	633	627	620	627	1.06	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-06DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-09-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:30:23 DataFile Name : 040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4634	4557	4618	4603	0.88	cps
Lead	207-1	3734	3691	3847	3757	2.15	cps
Lead	208-1	17675	17608	17775	17686	0.47	cps
Lithium	6-1	1689962	1685344	1648220	1674509	1.37	cps
Magnesium	24-2	15156280	14980031	15132128	15089480	0.63	cps
Manganese	55-2	13794154	13697795	13865271	13785740	0.61	cps
Molybdenum	94-1	5765	5418	5691	5624	3.25	cps
Molybdenum	95-1	1360	1293	1293	1316	2.93	cps
Molybdenum	96-1	12812	12682	12375	12623	1.78	cps
Molybdenum	97-1	973	777	813	854	12.24	cps
Molybdenum	98-1	1700	1713	1493	1636	7.54	cps
Neodymium	150-1	180746	185016	183473	183078	1.18	cps
Neodymium	150-2	113287	112158	113270	112905	0.57	cps
Nickel	60-2	34486	34496	34720	34568	0.38	cps
Phosphorus	31-2	1963	2060	2084	2036	3.13	cps
Potassium	39-2	401781	402622	402834	402413	0.14	cps
Rhodium	103-1	9794917	9795707	9992597	9861074	1.16	cps
Rhodium	103-2	6078535	6116731	6040287	6078518	0.63	cps
Scandium	45-1	6093778	6005405	6067768	6055650	0.75	cps
Scandium	45-2	509360	510187	514825	511457	0.58	cps
Selenium	82-1	369	271	316	319	15.44	cps
Selenium	77-2	343	343	397	361	8.53	cps
Selenium	78-2	707	763	703	724	4.65	cps
Silicon	28-1	129113781	130304171	130117558	129845170	0.49	cps
Silver	107-1	430	460	437	442	3.56	cps
Silver	109-1	447	437	490	458	6.19	cps
Sodium	23-2	6594157	6618675	6626416	6613082	0.25	cps
Strontium	86-1	1044302	1056947	1047135	1049461	0.63	cps
Strontium	88-1	9415858	9442815	9507332	9455335	0.50	cps
Sulfur	34-1	10314135	10202832	10400120	10305696	0.96	cps
Terbium	159-1	14349796	14264793	14295343	14303311	0.30	cps
Terbium	159-2	10043235	9951735	9937427	9977465	0.58	cps
Thallium	203-1	700	613	627	647	7.22	cps
Thallium	205-1	1593	1653	1587	1611	2.28	cps
Tin	118-1	3154	3410	3107	3224	5.07	cps
Titanium	47-1	3961	4024	4164	4049	2.57	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-06DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-09-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:30:23

DataFile Name :

040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	160778	163803	162970	162517	0.96	cps
Vanadium	51-2	1215832	1216796	1221549	1218059	0.25	cps
Yttrium	89-1	16786088	16693329	16726259	16735225	0.28	cps
Yttrium	89-2	4460439	4484289	4439100	4461276	0.51	cps
Zinc	66-2	209944	209881	210482	210102	0.16	cps
Zirconium	90-1	11748	11811	11471	11677	1.55	cps
Zirconium	91-1	2510	2594	2480	2528	2.32	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-08DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-10-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:33:31 DataFile Name : 041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6031058	6079089	6167442	6092530	1.14	cps
Antimony	121-1	493	467	470	477	3.05	cps
Arsenic	75-2	907	977	937	940	3.74	cps
Barium	135-1	118437	120988	121140	120188	1.26	cps
Barium	137-1	205729	209276	209182	208063	0.97	cps
Beryllium	9-1	1020	993	1147	1053	7.78	cps
Bismuth	209-1	8292812	8092954	8004378	8130048	1.82	cps
Bismuth	209-2	7045132	6916743	7334877	7098918	3.02	cps
Bromine	81-1	14187	14564	14247	14333	1.41	cps
Bromine	81-2	610	537	540	562	7.37	cps
Cadmium	108-1	60	83	43	62	32.29	cps
Cadmium	106-1	3981	3991	3944	3972	0.62	cps
Cadmium	111-1	2961	2908	2954	2941	0.97	cps
Calcium	43-1	2500682	2587606	2544542	2544277	1.71	cps
Calcium	44-1	40003090	40546934	40647516	40399180	0.86	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	28838	29308	28861	29002	0.92	cps
Cobalt	59-2	524793	528557	526682	526677	0.36	cps
Copper	63-2	76028	76668	76253	76316	0.43	cps
Dysprosium	156-1	153950	158587	160259	157599	2.07	cps
Dysprosium	156-2	127856	127122	128312	127763	0.47	cps
Erbium	164-1	207386	210478	210924	209596	0.92	cps
Erbium	164-2	152816	151728	152630	152391	0.38	cps
Gadolinium	160-1	166979	168965	170135	168693	0.95	cps
Gadolinium	160-2	129492	128661	129677	129277	0.42	cps
Holmium	165-1	14343020	14111843	14143182	14199349	0.88	cps
Holmium	165-2	10242245	10129830	10682714	10351596	2.82	cps
Indium	115-1	11497290	11476020	11419584	11464298	0.35	cps
Indium	115-2	4088848	4145906	4241135	4158630	1.85	cps
Iron	56-2	938154466	933999639	932514279	934889462	0.31	cps
Iron	57-2	22754215	22776848	22700315	22743792	0.17	cps
Iron	54-2	50201798	50104176	50211466	50172480	0.12	cps
Krypton	83-1	580	600	590	590	1.69	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-08DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-10-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:33:31 DataFile Name : 041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5748	5805	5751	5768	0.55	cps
Lead	207-1	4678	4931	4728	4779	2.81	cps
Lead	208-1	22411	22384	22611	22469	0.55	cps
Lithium	6-1	1685344	1687830	1680587	1684587	0.22	cps
Magnesium	24-2	14360874	14421241	14281949	14354688	0.49	cps
Manganese	55-2	12224771	12287082	12244922	12252259	0.26	cps
Molybdenum	94-1	9336	9413	9493	9414	0.83	cps
Molybdenum	95-1	913	1007	910	943	5.82	cps
Molybdenum	96-1	12796	13013	12879	12896	0.85	cps
Molybdenum	97-1	593	587	583	588	0.87	cps
Molybdenum	98-1	1003	1003	1117	1041	6.28	cps
Neodymium	150-1	174162	177040	176384	175862	0.86	cps
Neodymium	150-2	109410	107529	110414	109118	1.34	cps
Nickel	60-2	32742	32629	32442	32604	0.47	cps
Phosphorus	31-2	6281	6638	6775	6565	3.88	cps
Potassium	39-2	458134	452377	455312	455274	0.63	cps
Rhodium	103-1	10410308	10313635	10217664	10313869	0.93	cps
Rhodium	103-2	6217106	6230528	6411066	6286233	1.72	cps
Scandium	45-1	6374786	6273956	6227948	6292230	1.19	cps
Scandium	45-2	533540	540864	552218	542207	1.74	cps
Selenium	82-1	394	409	311	371	14.15	cps
Selenium	77-2	353	383	343	360	5.78	cps
Selenium	78-2	630	700	683	671	5.45	cps
Silicon	28-1	158861818	164739761	163550004	162383861	1.91	cps
Silver	107-1	543	503	463	503	7.95	cps
Silver	109-1	377	423	390	397	6.06	cps
Sodium	23-2	7739870	7758319	7687184	7728458	0.48	cps
Strontium	86-1	797086	809869	812105	806353	1.00	cps
Strontium	88-1	7171514	7313279	7273338	7252710	1.01	cps
Sulfur	34-1	9812299	9809734	9910171	9844068	0.58	cps
Terbium	159-1	14807354	14657081	14519972	14661469	0.98	cps
Terbium	159-2	10151560	10150733	10246195	10182830	0.54	cps
Thallium	203-1	693	593	543	610	12.52	cps
Thallium	205-1	1517	1477	1533	1509	1.93	cps
Tin	118-1	3761	3827	3881	3823	1.57	cps
Titanium	47-1	6308	6335	6285	6309	0.40	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-08DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-10-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:33:31

DataFile Name :

041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	87481	89826	89766	89025	1.50	cps
Vanadium	51-2	960570	954806	955520	956965	0.33	cps
Yttrium	89-1	17182650	16974441	17205897	17120996	0.74	cps
Yttrium	89-2	4535200	4545568	4552790	4544519	0.19	cps
Zinc	66-2	232797	232546	231470	232271	0.30	cps
Zirconium	90-1	22991	23749	23679	23473	1.78	cps
Zirconium	91-1	5331	5218	5451	5333	2.19	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-10DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-11-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:36:42 DataFile Name : 042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5539734	5409451	5413495	5454227	1.36	cps
Antimony	121-1	423	463	480	456	6.39	cps
Arsenic	75-2	953	1067	897	972	8.90	cps
Barium	135-1	121016	120988	119009	120337	0.96	cps
Barium	137-1	209479	208896	208071	208816	0.34	cps
Beryllium	9-1	1027	1047	963	1012	4.30	cps
Bismuth	209-1	8249710	8159532	8003109	8137450	1.53	cps
Bismuth	209-2	6926337	7099452	6969959	6998583	1.29	cps
Bromine	81-1	14517	14654	13913	14362	2.74	cps
Bromine	81-2	553	570	443	522	13.18	cps
Cadmium	108-1	67	53	27	49	41.66	cps
Cadmium	106-1	4277	3961	3604	3947	8.54	cps
Cadmium	111-1	3231	3035	2724	2997	8.53	cps
Calcium	43-1	2999343	3013378	3007462	3006728	0.23	cps
Calcium	44-1	48337849	48166596	47604038	48036161	0.80	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	24413	23942	24043	24133	1.03	cps
Cobalt	59-2	473711	475625	474385	474574	0.20	cps
Copper	63-2	57038	56576	56208	56608	0.73	cps
Dysprosium	156-1	154256	157316	154826	155466	1.05	cps
Dysprosium	156-2	123581	123810	124035	123808	0.18	cps
Erbium	164-1	207788	207860	206743	207464	0.30	cps
Erbium	164-2	148695	149972	148237	148968	0.60	cps
Gadolinium	160-1	166769	166732	165090	166197	0.58	cps
Gadolinium	160-2	125012	125284	125146	125147	0.11	cps
Holmium	165-1	14318905	14291073	14027222	14212400	1.13	cps
Holmium	165-2	10380185	10266055	10166717	10270985	1.04	cps
Indium	115-1	11486217	11386183	11317389	11396597	0.74	cps
Indium	115-2	4167493	4199353	4185382	4184076	0.38	cps
Iron	56-2	891430840	886276280	884277267	887328129	0.42	cps
Iron	57-2	22040723	21810714	21821401	21890946	0.59	cps
Iron	54-2	47525776	47918684	47707674	47717378	0.41	cps
Krypton	83-1	603	630	540	591	7.82	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-10DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-11-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:36:42 DataFile Name : 042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4327	4507	4461	4432	2.11	cps
Lead	207-1	3867	3741	3881	3829	2.02	cps
Lead	208-1	17354	17571	17511	17479	0.64	cps
Lithium	6-1	1685226	1696765	1668802	1683598	0.83	cps
Magnesium	24-2	14212889	14134148	14211211	14186083	0.32	cps
Manganese	55-2	13550624	13693802	13530117	13591515	0.66	cps
Molybdenum	94-1	7655	7729	7779	7721	0.80	cps
Molybdenum	95-1	937	807	873	872	7.45	cps
Molybdenum	96-1	11925	12095	12035	12018	0.72	cps
Molybdenum	97-1	507	553	550	537	4.85	cps
Molybdenum	98-1	787	760	777	774	1.74	cps
Neodymium	150-1	171003	171218	170688	170970	0.16	cps
Neodymium	150-2	105319	105736	104957	105337	0.37	cps
Nickel	60-2	30461	30451	29369	30094	2.09	cps
Phosphorus	31-2	5078	5024	4958	5020	1.20	cps
Potassium	39-2	436496	433115	435784	435132	0.41	cps
Rhodium	103-1	10265106	10213418	10087147	10188557	0.90	cps
Rhodium	103-2	6332552	6196929	6089553	6206345	1.96	cps
Scandium	45-1	6289231	6275777	6115457	6226822	1.55	cps
Scandium	45-2	526274	524106	525006	525129	0.21	cps
Selenium	82-1	358	329	369	352	5.80	cps
Selenium	77-2	320	363	343	342	6.34	cps
Selenium	78-2	683	730	713	709	3.34	cps
Silicon	28-1	143894915	143951601	142632758	143493091	0.52	cps
Silver	107-1	520	420	467	469	10.67	cps
Silver	109-1	357	417	330	368	12.07	cps
Sodium	23-2	6726172	6622423	6663400	6670665	0.78	cps
Strontium	86-1	894458	892460	889348	892088	0.29	cps
Strontium	88-1	8043780	8062350	7955644	8020591	0.71	cps
Sulfur	34-1	10085848	10132145	9933460	10050484	1.03	cps
Terbium	159-1	14681154	14609595	14444264	14578338	0.83	cps
Terbium	159-2	10139542	10094271	10186973	10140262	0.46	cps
Thallium	203-1	553	600	523	559	6.91	cps
Thallium	205-1	1327	1263	1253	1281	3.10	cps
Tin	118-1	3254	3434	3244	3310	3.23	cps
Titanium	47-1	5378	5224	5228	5277	1.66	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-10DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-11-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:36:42

DataFile Name :

042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	95463	95486	95220	95389	0.15	cps
Vanadium	51-2	933600	930640	929672	931304	0.22	cps
Yttrium	89-1	17194795	17110497	16859969	17055087	1.02	cps
Yttrium	89-2	4507617	4413310	4422292	4447740	1.17	cps
Zinc	66-2	214366	214468	212871	213902	0.42	cps
Zirconium	90-1	18785	18392	18412	18530	1.20	cps
Zirconium	91-1	4127	4021	4191	4113	2.09	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-12DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-12-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:39:49 DataFile Name : 043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9481138	9554130	9567326	9534198	0.49	cps
Antimony	121-1	310	333	337	327	4.45	cps
Arsenic	75-2	1150	1303	1147	1200	7.46	cps
Barium	135-1	105594	107965	106417	106659	1.13	cps
Barium	137-1	184595	186627	185320	185514	0.56	cps
Beryllium	9-1	293	287	340	307	9.48	cps
Bismuth	209-1	8150146	8093537	8135015	8126233	0.36	cps
Bismuth	209-2	6932748	7105425	6914933	6984368	1.51	cps
Bromine	81-1	14761	14350	14100	14404	2.32	cps
Bromine	81-2	440	443	480	454	4.88	cps
Cadmium	108-1	33	53	70	52	35.16	cps
Cadmium	106-1	3844	3957	3627	3809	4.40	cps
Cadmium	111-1	2984	3029	2747	2920	5.20	cps
Calcium	43-1	1587342	1598926	1568906	1585058	0.96	cps
Calcium	44-1	25012899	25487405	25440468	25313591	1.03	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	82139	81452	81857	81816	0.42	cps
Cobalt	59-2	438289	440792	439096	439392	0.29	cps
Copper	63-2	179412	180160	179282	179618	0.26	cps
Dysprosium	156-1	142023	142023	142305	142117	0.11	cps
Dysprosium	156-2	114542	113917	115634	114698	0.76	cps
Erbium	164-1	157534	160207	160351	159364	1.00	cps
Erbium	164-2	114464	114246	115966	114892	0.82	cps
Gadolinium	160-1	145126	147426	148063	146871	1.05	cps
Gadolinium	160-2	112702	112325	112027	112351	0.30	cps
Holmium	165-1	14597988	14166001	14190345	14318111	1.69	cps
Holmium	165-2	10354983	10334205	10331993	10340394	0.12	cps
Indium	115-1	11595345	11581135	11633117	11603199	0.23	cps
Indium	115-2	4169504	4183003	4143440	4165316	0.48	cps
Iron	56-2	702508870	699652363	701053776	701071670	0.20	cps
Iron	57-2	17271788	17041732	17286064	17199861	0.80	cps
Iron	54-2	37659449	37607979	37717444	37661624	0.15	cps
Krypton	83-1	400	447	487	444	9.76	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-12DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-12-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:39:49 DataFile Name : 043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	13503	13477	13453	13478	0.19	cps
Lead	207-1	11392	11115	11338	11281	1.30	cps
Lead	208-1	52817	52697	53258	52924	0.56	cps
Lithium	6-1	1705315	1650192	1670098	1675202	1.67	cps
Magnesium	24-2	20951034	21030010	20864107	20948384	0.40	cps
Manganese	55-2	4869420	4836686	4859143	4855083	0.34	cps
Molybdenum	94-1	5184	5231	5554	5323	3.79	cps
Molybdenum	95-1	710	673	837	740	11.58	cps
Molybdenum	96-1	9467	9827	9687	9660	1.88	cps
Molybdenum	97-1	623	597	543	588	6.93	cps
Molybdenum	98-1	1027	1010	1040	1026	1.47	cps
Neodymium	150-1	173695	177765	178723	176728	1.51	cps
Neodymium	150-2	108486	107737	106988	107737	0.70	cps
Nickel	60-2	143424	142600	144124	143383	0.53	cps
Phosphorus	31-2	15284	15628	15661	15525	1.34	cps
Potassium	39-2	564051	566234	560478	563587	0.52	cps
Rhodium	103-1	10600812	10465523	10327004	10464446	1.31	cps
Rhodium	103-2	6218281	6303796	6247266	6256448	0.70	cps
Scandium	45-1	6530272	6395990	6403039	6443100	1.17	cps
Scandium	45-2	541884	543341	542319	542515	0.14	cps
Selenium	82-1	444	331	315	363	19.46	cps
Selenium	77-2	320	337	277	311	9.96	cps
Selenium	78-2	720	740	670	710	5.08	cps
Silicon	28-1	126675268	127743595	129658821	128025895	1.18	cps
Silver	107-1	733	780	653	722	8.87	cps
Silver	109-1	517	710	640	622	15.73	cps
Sodium	23-2	17057590	17064341	17068530	17063487	0.03	cps
Strontium	86-1	582671	595096	598085	591951	1.38	cps
Strontium	88-1	5321181	5298233	5275637	5298350	0.43	cps
Sulfur	34-1	10260062	10362836	10476623	10366507	1.04	cps
Terbium	159-1	14757276	14797384	14558184	14704281	0.87	cps
Terbium	159-2	10151390	10192287	10098552	10147410	0.46	cps
Thallium	203-1	580	610	590	593	2.57	cps
Thallium	205-1	1307	1477	1347	1377	6.46	cps
Tin	118-1	2770	2787	2847	2801	1.44	cps
Titanium	47-1	6642	6448	6872	6654	3.19	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-12DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-12-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:39:49

DataFile Name :

043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	81987	83067	84724	83259	1.66	cps
Vanadium	51-2	1234630	1231627	1225937	1230731	0.36	cps
Yttrium	89-1	16535591	16147359	16203373	16295441	1.29	cps
Yttrium	89-2	4297207	4268385	4238520	4268037	0.69	cps
Zinc	66-2	283300	284777	285790	284623	0.44	cps
Zirconium	90-1	12182	12382	12642	12402	1.86	cps
Zirconium	91-1	2637	2977	2730	2781	6.32	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-14DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-13-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:43:00 DataFile Name : 044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7092431	7128982	7197195	7139536	0.74	cps
Antimony	121-1	333	370	337	347	5.85	cps
Arsenic	75-2	1353	1310	1457	1373	5.49	cps
Barium	135-1	114714	116055	114972	115247	0.62	cps
Barium	137-1	198306	201754	198661	199574	0.95	cps
Beryllium	9-1	357	427	393	392	8.93	cps
Bismuth	209-1	8140843	8147523	8118719	8135695	0.19	cps
Bismuth	209-2	7029336	7059826	7002218	7030460	0.41	cps
Bromine	81-1	14958	14687	14841	14829	0.91	cps
Bromine	81-2	453	473	430	452	4.80	cps
Cadmium	108-1	47	27	63	46	40.29	cps
Cadmium	106-1	3814	4001	3734	3849	3.56	cps
Cadmium	111-1	2914	3018	2833	2922	3.19	cps
Calcium	43-1	1917623	1963212	2010463	1963766	2.36	cps
Calcium	44-1	31257580	31006695	30882935	31049070	0.61	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	74432	73793	74051	74092	0.43	cps
Cobalt	59-2	462430	463549	458210	461396	0.61	cps
Copper	63-2	158240	158371	159300	158637	0.36	cps
Dysprosium	156-1	147344	149334	147905	148194	0.69	cps
Dysprosium	156-2	119251	121335	120193	120259	0.87	cps
Erbium	164-1	169346	171755	169832	170311	0.75	cps
Erbium	164-2	123695	123389	122961	123348	0.30	cps
Gadolinium	160-1	153945	156283	158300	156176	1.40	cps
Gadolinium	160-2	116503	118106	116661	117090	0.75	cps
Holmium	165-1	14247038	14171014	14295591	14237881	0.44	cps
Holmium	165-2	10268875	10448068	10195845	10304263	1.26	cps
Indium	115-1	11682916	11674760	11555636	11637771	0.61	cps
Indium	115-2	4229235	4152671	4190191	4190699	0.91	cps
Iron	56-2	788374095	798889215	797387188	794883499	0.72	cps
Iron	57-2	19549991	19455779	19506197	19503989	0.24	cps
Iron	54-2	43048029	43144296	43077464	43089930	0.11	cps
Krypton	83-1	510	520	530	520	1.92	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-14DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-13-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:43:00 DataFile Name : 044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10214	10024	10017	10085	1.11	cps
Lead	207-1	8463	8563	8493	8506	0.60	cps
Lead	208-1	39990	39369	40211	39857	1.09	cps
Lithium	6-1	1658902	1635546	1679955	1658134	1.34	cps
Magnesium	24-2	20230478	20442890	20515371	20396247	0.73	cps
Manganese	55-2	6646923	6629511	6661502	6645979	0.24	cps
Molybdenum	94-1	5895	6028	6228	6050	2.77	cps
Molybdenum	95-1	980	903	840	908	7.72	cps
Molybdenum	96-1	10654	11348	11148	11050	3.23	cps
Molybdenum	97-1	637	593	687	639	7.31	cps
Molybdenum	98-1	1147	1143	1157	1149	0.60	cps
Neodymium	150-1	177523	180168	177672	178454	0.83	cps
Neodymium	150-2	109044	109504	109914	109487	0.40	cps
Nickel	60-2	125798	127442	126094	126445	0.69	cps
Phosphorus	31-2	13856	13886	13773	13839	0.42	cps
Potassium	39-2	575127	575685	573218	574677	0.23	cps
Rhodium	103-1	10547720	10373551	10436889	10452720	0.84	cps
Rhodium	103-2	6299164	6325481	6280583	6301743	0.36	cps
Scandium	45-1	6418931	6428642	6348664	6398746	0.68	cps
Scandium	45-2	537172	541301	540280	539584	0.40	cps
Selenium	82-1	316	268	307	297	8.65	cps
Selenium	77-2	350	293	317	320	8.90	cps
Selenium	78-2	730	730	703	721	2.14	cps
Silicon	28-1	136530501	138490971	137271975	137431149	0.72	cps
Silver	107-1	480	660	577	572	15.74	cps
Silver	109-1	497	600	463	520	13.70	cps
Sodium	23-2	19491689	19460591	19422397	19458226	0.18	cps
Strontium	86-1	706345	716458	715543	712782	0.78	cps
Strontium	88-1	6366800	6396324	6383458	6382194	0.23	cps
Sulfur	34-1	10331072	10284399	10174761	10263410	0.78	cps
Terbium	159-1	14554729	14669738	14608206	14610891	0.39	cps
Terbium	159-2	10201319	10206276	10229916	10212504	0.15	cps
Thallium	203-1	523	603	500	542	9.99	cps
Thallium	205-1	1307	1257	1353	1306	3.70	cps
Tin	118-1	6478	6585	6525	6529	0.82	cps
Titanium	47-1	8512	8522	8969	8668	3.01	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-14DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-13-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:43:00

DataFile Name :

044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	83000	84342	83691	83677	0.80	cps
Vanadium	51-2	1181762	1193666	1189677	1188368	0.51	cps
Yttrium	89-1	16393274	16474948	16319036	16395753	0.48	cps
Yttrium	89-2	4304625	4309743	4302473	4305614	0.09	cps
Zinc	66-2	275324	272015	273155	273498	0.61	cps
Zirconium	90-1	13706	13917	13573	13732	1.26	cps
Zirconium	91-1	3054	2827	3034	2971	4.22	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-16DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-14-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:46:07 DataFile Name : 045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9571588	9467179	9370505	9469757	1.06	cps
Antimony	121-1	6278	6215	6341	6278	1.01	cps
Arsenic	75-2	1117	1193	1097	1136	4.49	cps
Barium	135-1	113410	115057	115402	114623	0.93	cps
Barium	137-1	198351	198372	198520	198414	0.05	cps
Beryllium	9-1	367	350	400	372	6.84	cps
Bismuth	209-1	8295642	8090144	8071185	8152324	1.53	cps
Bismuth	209-2	7020449	6991771	7040970	7017730	0.35	cps
Bromine	81-1	14454	14601	14497	14517	0.52	cps
Bromine	81-2	430	427	393	417	4.87	cps
Cadmium	108-1	63	50	83	66	25.59	cps
Cadmium	106-1	4117	3964	3741	3941	4.81	cps
Cadmium	111-1	3178	3096	2943	3073	3.87	cps
Calcium	43-1	1518068	1546169	1530480	1531572	0.92	cps
Calcium	44-1	24420180	24622208	24438877	24493755	0.46	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	84461	84015	83398	83958	0.64	cps
Cobalt	59-2	440174	440028	440230	440144	0.02	cps
Copper	63-2	180076	179249	178470	179265	0.45	cps
Dysprosium	156-1	137058	138350	138629	138012	0.61	cps
Dysprosium	156-2	110953	111965	112734	111884	0.80	cps
Erbium	164-1	160443	159606	158825	159625	0.51	cps
Erbium	164-2	114478	113271	115341	114363	0.91	cps
Gadolinium	160-1	145523	146207	144661	145464	0.53	cps
Gadolinium	160-2	108455	109057	109342	108951	0.42	cps
Holmium	165-1	14285297	14243854	14279140	14269430	0.16	cps
Holmium	165-2	10182978	10209857	10354564	10249133	0.90	cps
Indium	115-1	11519194	11701369	11644624	11621729	0.80	cps
Indium	115-2	4202986	4207113	4246917	4219006	0.58	cps
Iron	56-2	641603137	642949617	640176764	641576506	0.22	cps
Iron	57-2	15764855	15717948	15666610	15716471	0.31	cps
Iron	54-2	34322212	34623966	34659643	34535274	0.54	cps
Krypton	83-1	490	560	413	488	15.04	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-16DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-14-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:46:07 DataFile Name : 045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20135	19825	20075	20011	0.82	cps
Lead	207-1	16767	16944	16387	16699	1.71	cps
Lead	208-1	78950	79205	78282	78812	0.60	cps
Lithium	6-1	1681734	1666691	1665748	1671391	0.54	cps
Magnesium	24-2	21589699	21439581	21319587	21449622	0.63	cps
Manganese	55-2	5369033	5418776	5375595	5387802	0.50	cps
Molybdenum	94-1	4464	4364	4624	4484	2.93	cps
Molybdenum	95-1	847	900	800	849	5.89	cps
Molybdenum	96-1	8976	9266	8933	9058	2.00	cps
Molybdenum	97-1	583	653	620	619	5.66	cps
Molybdenum	98-1	1183	1360	1193	1246	7.97	cps
Neodymium	150-1	168706	169732	167644	168694	0.62	cps
Neodymium	150-2	105239	103714	104812	104588	0.75	cps
Nickel	60-2	135441	134426	136013	135293	0.59	cps
Phosphorus	31-2	11308	10574	10891	10924	3.37	cps
Potassium	39-2	554336	552727	552302	553122	0.19	cps
Rhodium	103-1	10506735	10500700	10599794	10535743	0.53	cps
Rhodium	103-2	6306708	6347851	6356009	6336856	0.42	cps
Scandium	45-1	6431571	6502286	6451849	6461902	0.56	cps
Scandium	45-2	552276	549596	550076	550649	0.26	cps
Selenium	82-1	274	218	303	265	16.32	cps
Selenium	77-2	337	310	313	320	4.54	cps
Selenium	78-2	687	657	727	690	5.09	cps
Silicon	28-1	122661608	124272508	124241911	123725343	0.74	cps
Silver	107-1	740	723	743	736	1.46	cps
Silver	109-1	677	637	617	643	4.75	cps
Sodium	23-2	16178543	16141644	15995783	16105323	0.60	cps
Strontium	86-1	519405	521072	520999	520492	0.18	cps
Strontium	88-1	4675947	4651523	4680913	4669461	0.34	cps
Sulfur	34-1	10678652	10620711	10653053	10650805	0.27	cps
Terbium	159-1	14759191	14676253	14506021	14647155	0.88	cps
Terbium	159-2	10253782	10217148	10339405	10270111	0.61	cps
Thallium	203-1	667	543	667	626	11.38	cps
Thallium	205-1	1457	1330	1383	1390	4.58	cps
Tin	118-1	6502	6648	6655	6602	1.31	cps
Titanium	47-1	8669	8286	8643	8532	2.51	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-16DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-14-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:46:07

DataFile Name :

045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	79200	80538	81045	80261	1.19	cps
Vanadium	51-2	1205246	1203370	1206140	1204919	0.12	cps
Yttrium	89-1	16315481	16223310	16239906	16259566	0.30	cps
Yttrium	89-2	4258408	4313884	4279047	4283780	0.65	cps
Zinc	66-2	282258	283225	280657	282047	0.46	cps
Zirconium	90-1	9680	10167	9560	9802	3.28	cps
Zirconium	91-1	2010	2160	2187	2119	4.49	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-18DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-06R-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:49:18 DataFile Name : 046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5656086	5640753	5596889	5631243	0.55	cps
Antimony	121-1	28528	28538	28856	28641	0.65	cps
Arsenic	75-2	1170	1193	1247	1203	3.27	cps
Barium	135-1	130343	129754	131638	130578	0.74	cps
Barium	137-1	225330	225231	225930	225497	0.17	cps
Beryllium	9-1	777	820	700	766	7.94	cps
Bismuth	209-1	8193684	8084525	8323988	8200733	1.46	cps
Bismuth	209-2	7095497	7041782	7074623	7070634	0.38	cps
Bromine	81-1	15165	14594	14551	14770	2.32	cps
Bromine	81-2	577	640	587	601	5.66	cps
Cadmium	108-1	40	60	80	60	33.33	cps
Cadmium	106-1	4207	4017	3997	4074	2.85	cps
Cadmium	111-1	3134	2993	3075	3068	2.30	cps
Calcium	43-1	2930763	2916377	2925981	2924374	0.25	cps
Calcium	44-1	46633278	46616409	46330981	46526889	0.37	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	42663	43148	42490	42767	0.80	cps
Cobalt	59-2	485728	484137	482404	484089	0.34	cps
Copper	63-2	95153	94939	93949	94680	0.68	cps
Dysprosium	156-1	169057	168311	167695	168354	0.41	cps
Dysprosium	156-2	133107	135785	132881	133924	1.21	cps
Erbium	164-1	213720	215845	216099	215221	0.61	cps
Erbium	164-2	152934	151559	151182	151892	0.61	cps
Gadolinium	160-1	178961	180899	179213	179691	0.59	cps
Gadolinium	160-2	133213	134354	134363	133977	0.49	cps
Holmium	165-1	14430119	14293437	14464223	14395926	0.63	cps
Holmium	165-2	10126151	10208808	10267198	10200719	0.69	cps
Indium	115-1	11461911	11467924	11634051	11521295	0.85	cps
Indium	115-2	4137968	4154889	4150019	4147625	0.21	cps
Iron	56-2	893774440	902583027	901718253	899358573	0.54	cps
Iron	57-2	22439806	22276177	22043561	22253181	0.89	cps
Iron	54-2	49295954	48913933	48162579	48790822	1.18	cps
Krypton	83-1	633	510	597	580	10.92	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5306-18DLX5 Instrumnet Name : P7
Client Sample ID : OU4-VSL-06R-121224 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 13:49:18 DataFile Name : 046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6021	5768	6332	6040	4.67	cps
Lead	207-1	5138	4858	4928	4974	2.93	cps
Lead	208-1	23285	23148	24159	23530	2.33	cps
Lithium	6-1	1669648	1665213	1688462	1674441	0.74	cps
Magnesium	24-2	17217747	17136273	17075684	17143235	0.42	cps
Manganese	55-2	11900327	11897263	11827121	11874904	0.35	cps
Molybdenum	94-1	6375	6258	6301	6311	0.93	cps
Molybdenum	95-1	1110	1067	1073	1083	2.15	cps
Molybdenum	96-1	12622	11905	12232	12253	2.93	cps
Molybdenum	97-1	603	713	730	682	10.09	cps
Molybdenum	98-1	1107	1107	1220	1145	5.72	cps
Neodymium	150-1	187542	191843	189960	189782	1.14	cps
Neodymium	150-2	115878	114987	116674	115846	0.73	cps
Nickel	60-2	69918	70096	68871	69628	0.95	cps
Phosphorus	31-2	4757	4918	4877	4851	1.72	cps
Potassium	39-2	532439	529713	524777	528976	0.73	cps
Rhodium	103-1	10574266	10419115	10218980	10404120	1.71	cps
Rhodium	103-2	6189367	6205263	6198508	6197713	0.13	cps
Scandium	45-1	6422182	6411167	6363239	6398862	0.49	cps
Scandium	45-2	528520	535093	534654	532756	0.69	cps
Selenium	82-1	323	412	353	363	12.47	cps
Selenium	77-2	327	403	413	381	12.44	cps
Selenium	78-2	753	673	693	707	5.89	cps
Silicon	28-1	145210191	148932688	146073231	146738703	1.33	cps
Silver	107-1	673	583	597	618	7.86	cps
Silver	109-1	463	603	583	550	13.77	cps
Sodium	23-2	14092660	13929021	13771598	13931093	1.15	cps
Strontium	86-1	926474	925657	921705	924612	0.28	cps
Strontium	88-1	8320132	8371664	8310519	8334105	0.39	cps
Sulfur	34-1	10886417	10678384	10639125	10734642	1.24	cps
Terbium	159-1	14943544	14605708	14666715	14738655	1.22	cps
Terbium	159-2	9994227	10209318	10099491	10101012	1.06	cps
Thallium	203-1	600	537	520	552	7.64	cps
Thallium	205-1	1250	1253	1190	1231	2.90	cps
Tin	118-1	3014	3227	3280	3174	4.45	cps
Titanium	47-1	4894	5151	5044	5030	2.56	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5306-18DLX5

Instrumnet Name :

P7

Client Sample ID :

OU4-VSL-06R-121224

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 13:49:18

DataFile Name :

046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	101805	101321	102184	101770	0.43	cps
Vanadium	51-2	1090593	1088153	1090707	1089818	0.13	cps
Yttrium	89-1	17246701	17182258	17132750	17187236	0.33	cps
Yttrium	89-2	4483034	4438920	4527620	4483191	0.99	cps
Zinc	66-2	247613	245590	243128	245444	0.92	cps
Zirconium	90-1	14264	14437	14060	14254	1.32	cps
Zirconium	91-1	3187	3127	2910	3075	4.73	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165699TB Instrumnet Name : P7
Client Sample ID : PB165699TB Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:52:26 DataFile Name : 047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1053	1120	1090	1088	3.07	cps
Antimony	121-1	22508	22024	22528	22353	1.28	cps
Arsenic	75-2	17	20	13	17	20.01	cps
Barium	135-1	107	150	113	123	18.92	cps
Barium	137-1	210	267	237	238	11.92	cps
Beryllium	9-1	93	57	93	81	26.10	cps
Bismuth	209-1	8517685	8505968	8431232	8484962	0.55	cps
Bismuth	209-2	7305990	7277811	7356459	7313420	0.54	cps
Bromine	81-1	15098	15201	14491	14930	2.57	cps
Bromine	81-2	127	113	153	131	15.53	cps
Cadmium	108-1	7	23	3	11	96.43	cps
Cadmium	106-1	3217	3120	3077	3138	2.28	cps
Cadmium	111-1	2271	2195	2175	2213	2.28	cps
Calcium	43-1	1103	920	687	903	23.12	cps
Calcium	44-1	22023	17847	16272	18714	15.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2457	2467	2407	2444	1.32	cps
Cobalt	59-2	227	253	200	227	11.77	cps
Copper	63-2	1033	1043	1017	1031	1.31	cps
Dysprosium	156-1	60	27	13	33	72.11	cps
Dysprosium	156-2	20	17	10	16	32.73	cps
Erbium	164-1	93	40	47	60	48.43	cps
Erbium	164-2	47	47	40	44	8.66	cps
Gadolinium	160-1	97	83	57	79	25.82	cps
Gadolinium	160-2	430	433	477	447	5.83	cps
Holmium	165-1	14248354	14150808	14277176	14225446	0.47	cps
Holmium	165-2	10298633	10293238	10445285	10345719	0.83	cps
Indium	115-1	11801102	11909698	11856521	11855774	0.46	cps
Indium	115-2	4338403	4428528	4398725	4388552	1.05	cps
Iron	56-2	79824	76402	69975	75400	6.63	cps
Iron	57-2	2490	2560	2294	2448	5.65	cps
Iron	54-2	6295	5724	5294	5771	8.70	cps
Krypton	83-1	247	207	233	229	8.90	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165699TB Instrumnet Name : P7
Client Sample ID : PB165699TB Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:52:26 DataFile Name : 047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1693	1717	1677	1696	1.18	cps
Lead	207-1	1633	1597	1490	1573	4.73	cps
Lead	208-1	7111	7174	6881	7055	2.19	cps
Lithium	6-1	1673441	1676902	1678080	1676141	0.14	cps
Magnesium	24-2	1773	1767	1617	1719	5.15	cps
Manganese	55-2	7545	7469	7455	7490	0.65	cps
Molybdenum	94-1	420	417	350	396	9.98	cps
Molybdenum	95-1	253	217	173	214	18.67	cps
Molybdenum	96-1	263	283	293	280	5.46	cps
Molybdenum	97-1	123	130	140	131	6.40	cps
Molybdenum	98-1	313	257	343	304	14.46	cps
Neodymium	150-1	37	37	37	37	0.00	cps
Neodymium	150-2	10	3	13	9	57.30	cps
Nickel	60-2	577	660	513	583	12.61	cps
Phosphorus	31-2	177	130	193	167	19.70	cps
Potassium	39-2	50978	50564	50828	50790	0.41	cps
Rhodium	103-1	11101370	11065017	10975362	11047250	0.59	cps
Rhodium	103-2	6657432	6769194	6756562	6727730	0.91	cps
Scandium	45-1	6428488	6414067	6424018	6422191	0.11	cps
Scandium	45-2	554511	558535	559935	557660	0.50	cps
Selenium	82-1	125	130	95	117	16.28	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	500	533	437	490	10.02	cps
Silicon	28-1	777809	779187	767982	774993	0.79	cps
Silver	107-1	143	143	160	149	6.46	cps
Silver	109-1	107	83	100	97	12.44	cps
Sodium	23-2	118733	119297	118139	118723	0.49	cps
Strontium	86-1	583	513	490	529	9.18	cps
Strontium	88-1	2044	1643	1340	1676	21.06	cps
Sulfur	34-1	344090	343068	343325	343494	0.15	cps
Terbium	159-1	14902291	14647712	14600601	14716868	1.10	cps
Terbium	159-2	10149663	10304930	10326017	10260203	0.94	cps
Thallium	203-1	320	383	330	344	9.88	cps
Thallium	205-1	720	593	620	644	10.36	cps
Tin	118-1	2434	2550	2777	2587	6.75	cps
Titanium	47-1	190	230	203	208	9.80	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

PB165699TB

Instrumnet Name :

P7

Client Sample ID :

PB165699TB

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 13:52:26

DataFile Name :

047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	33	33	13	27	43.31	cps
Vanadium	51-2	73	107	83	88	19.49	cps
Yttrium	89-1	13762181	13938699	13836730	13845870	0.64	cps
Yttrium	89-2	3727420	3754285	3731935	3737880	0.38	cps
Zinc	66-2	897	913	1030	947	7.67	cps
Zirconium	90-1	643	667	773	694	9.98	cps
Zirconium	91-1	187	123	150	153	20.74	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV043 Instrumnet Name : P7
Client Sample ID : CCV043 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:55:45 DataFile Name : 048CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14110195	13980892	13836038	13975708	0.98	cps
Antimony	121-1	6373487	6291788	6173348	6279541	1.60	cps
Arsenic	75-2	301885	299951	297737	299858	0.69	cps
Barium	135-1	8299228	8254787	8177992	8244002	0.74	cps
Barium	137-1	14154509	14312779	13892892	14120060	1.50	cps
Beryllium	9-1	732202	733273	734375	733283	0.15	cps
Bismuth	209-1	7807184	7917467	7903690	7876114	0.76	cps
Bismuth	209-2	6541399	6603106	6549953	6564819	0.51	cps
Bromine	81-1	13736	13016	13526	13426	2.76	cps
Bromine	81-2	147	100	143	130	20.03	cps
Cadmium	108-1	111974	110496	111581	111351	0.69	cps
Cadmium	106-1	160415	159471	158046	159311	0.75	cps
Cadmium	111-1	1504441	1492494	1482876	1493270	0.72	cps
Calcium	43-1	8358845	8287455	8278243	8308181	0.53	cps
Calcium	44-1	135134608	132645735	132822431	133534258	1.04	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2427073	2413435	2422986	2421165	0.29	cps
Cobalt	59-2	3766416	3732698	3736779	3745298	0.49	cps
Copper	63-2	26258315	26339460	26053863	26217213	0.56	cps
Dysprosium	156-1	287	317	273	292	7.59	cps
Dysprosium	156-2	423	483	547	484	12.73	cps
Erbium	164-1	357	313	250	307	17.49	cps
Erbium	164-2	207	180	187	191	7.26	cps
Gadolinium	160-1	323	330	237	297	17.55	cps
Gadolinium	160-2	623	533	593	583	7.86	cps
Holmium	165-1	14355869	13988410	14141981	14162087	1.30	cps
Holmium	165-2	10097842	9956376	9928697	9994305	0.91	cps
Indium	115-1	11050986	10830281	10837858	10906375	1.15	cps
Indium	115-2	3904913	3875200	3858099	3879404	0.61	cps
Iron	56-2	567991392	574415191	566553858	569653480	0.73	cps
Iron	57-2	14000402	14119409	13980958	14033590	0.53	cps
Iron	54-2	30773589	30800710	30616346	30730215	0.32	cps
Krypton	83-1	240	270	220	243	10.34	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV043 Instrumnet Name : P7
Client Sample ID : CCV043 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:55:45 DataFile Name : 048CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	23190258	23472133	23137596	23266662	0.77	cps
Lead	207-1	21034069	21123037	20908497	21021868	0.51	cps
Lead	208-1	94720556	95817107	94820861	95119508	0.64	cps
Lithium	6-1	1703837	1668063	1705937	1692612	1.26	cps
Magnesium	24-2	107902165	107393332	106846228	107380575	0.49	cps
Manganese	55-2	19393191	19452561	19223966	19356573	0.61	cps
Molybdenum	94-1	22334790	22059780	21872430	22089000	1.05	cps
Molybdenum	95-1	32633324	31647220	31687638	31989394	1.74	cps
Molybdenum	96-1	35450311	34933434	34965766	35116504	0.82	cps
Molybdenum	97-1	20081099	19799387	19714636	19865041	0.97	cps
Molybdenum	98-1	51665161	51281198	50873206	51273188	0.77	cps
Neodymium	150-1	473	483	483	480	1.20	cps
Neodymium	150-2	193	167	137	166	17.12	cps
Nickel	60-2	887210	889011	886593	887604	0.14	cps
Phosphorus	31-2	123433	124118	122999	123517	0.46	cps
Potassium	39-2	69508809	69722387	69036667	69422621	0.51	cps
Rhodium	103-1	9743896	9485687	9728895	9652826	1.50	cps
Rhodium	103-2	5769691	5697072	5707178	5724647	0.69	cps
Scandium	45-1	6172494	6106754	6091858	6123702	0.70	cps
Scandium	45-2	515818	514120	510878	513605	0.49	cps
Selenium	82-1	90308	90485	89678	90157	0.47	cps
Selenium	77-2	9023	9023	9173	9073	0.96	cps
Selenium	78-2	30952	30685	30565	30734	0.65	cps
Silicon	28-1	3675739	3600387	3653475	3643200	1.06	cps
Silver	107-1	7737044	7558009	7587010	7627354	1.26	cps
Silver	109-1	7479965	7350272	7391612	7407283	0.89	cps
Sodium	23-2	173179231	174612737	175023664	174271877	0.56	cps
Strontium	86-1	2058955	2030776	2034529	2041420	0.75	cps
Strontium	88-1	17873108	17504897	17457306	17611770	1.29	cps
Sulfur	34-1	627340	611388	614388	617705	1.37	cps
Terbium	159-1	14460956	14377474	14336409	14391613	0.44	cps
Terbium	159-2	9833195	10012253	9707972	9851140	1.55	cps
Thallium	203-1	6073153	6001501	5972578	6015744	0.86	cps
Thallium	205-1	14300991	14398034	14185990	14295005	0.74	cps
Tin	118-1	5262514	5285667	5225373	5257851	0.58	cps
Titanium	47-1	7787994	7754330	7678957	7740427	0.72	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV043 Instrumnet Name : P7
Client Sample ID : CCV043 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:55:45 DataFile Name : 048CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	19249597	19366968	19473217	19363261	0.58	cps
Vanadium	51-2	2160569	2174767	2197903	2177746	0.87	cps
Yttrium	89-1	13396087	13074481	13154443	13208337	1.27	cps
Yttrium	89-2	3428294	3405520	3391892	3408569	0.54	cps
Zinc	66-2	4353558	4334565	4296751	4328291	0.67	cps
Zirconium	90-1	11006706	10773355	10666837	10815633	1.61	cps
Zirconium	91-1	2425403	2378058	2385708	2396390	1.06	cps

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCB043Instrumnet Name :P7

Client Sample ID :CCB043Dilution Factor :1

Date & Time Acquired :2024-12-23 13:58:28DataFile Name :049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	400	370	473	414	12.83	cps
Antimony	121-1	2960	2744	2337	2680	11.81	cps
Arsenic	75-2	10	20	10	13	43.30	cps
Barium	135-1	820	463	353	546	44.72	cps
Barium	137-1	1307	733	493	844	49.49	cps
Beryllium	9-1	190	177	207	191	7.86	cps
Bismuth	209-1	8210251	8540599	8700498	8483783	2.95	cps
Bismuth	209-2	7440373	7355044	7359123	7384847	0.65	cps
Bromine	81-1	13773	13717	13606	13699	0.62	cps
Bromine	81-2	297	227	193	239	22.08	cps
Cadmium	108-1	27	23	17	22	22.91	cps
Cadmium	106-1	2894	3080	2900	2958	3.58	cps
Cadmium	111-1	2217	2267	2112	2198	3.59	cps
Calcium	43-1	1033	760	623	806	25.92	cps
Calcium	44-1	21042	15805	13549	16799	22.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1393	1453	1357	1401	3.48	cps
Cobalt	59-2	183	183	210	192	8.01	cps
Copper	63-2	1477	1507	1323	1436	6.85	cps
Dysprosium	156-1	7	13	10	10	33.30	cps
Dysprosium	156-2	7	7	0	4	86.60	cps
Erbium	164-1	57	63	60	60	5.55	cps
Erbium	164-2	23	33	43	33	30.00	cps
Gadolinium	160-1	47	50	40	46	11.18	cps
Gadolinium	160-2	460	413	450	441	5.57	cps
Holmium	165-1	13484747	14022742	14115561	13874350	2.45	cps
Holmium	165-2	10276082	9990060	10067227	10111123	1.46	cps
Indium	115-1	11041638	11424222	11741821	11402560	3.07	cps
Indium	115-2	4287331	4228638	4231299	4249089	0.78	cps
Iron	56-2	34807	34209	33347	34121	2.15	cps
Iron	57-2	1313	1197	1297	1269	4.97	cps
Iron	54-2	3287	3227	3147	3220	2.18	cps
Krypton	83-1	217	253	233	234	7.83	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB043 Instrumnet Name : P7
Client Sample ID : CCB043 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 13:58:28 DataFile Name : 049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2460	1893	1400	1918	27.66	cps
Lead	207-1	2484	1490	1363	1779	34.48	cps
Lead	208-1	10749	7241	5987	7992	30.88	cps
Lithium	6-1	1706119	1764124	1806498	1758914	2.86	cps
Magnesium	24-2	3297	3177	2957	3144	5.49	cps
Manganese	55-2	830	817	820	822	0.84	cps
Molybdenum	94-1	2774	2017	1487	2092	30.91	cps
Molybdenum	95-1	3714	2364	1697	2591	39.66	cps
Molybdenum	96-1	4031	2604	1910	2848	37.96	cps
Molybdenum	97-1	2167	1403	1063	1545	36.59	cps
Molybdenum	98-1	5558	3644	2867	4023	34.43	cps
Neodymium	150-1	3	10	0	4	114.60	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	410	320	307	346	16.27	cps
Phosphorus	31-2	197	193	183	191	3.63	cps
Potassium	39-2	51955	51718	50624	51432	1.38	cps
Rhodium	103-1	9894046	10619392	10689274	10400904	4.23	cps
Rhodium	103-2	6469842	6484316	6392819	6448992	0.76	cps
Scandium	45-1	5783690	6083575	6186004	6017756	3.47	cps
Scandium	45-2	528395	526091	524891	526459	0.34	cps
Selenium	82-1	133	85	67	95	35.99	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	423	447	373	414	9.04	cps
Silicon	28-1	634412	620686	613431	622843	1.71	cps
Silver	107-1	1333	977	920	1077	20.81	cps
Silver	109-1	1187	860	740	929	24.89	cps
Sodium	23-2	32648	32160	32488	32432	0.77	cps
Strontium	86-1	577	547	527	550	4.58	cps
Strontium	88-1	1893	1120	977	1330	37.08	cps
Sulfur	34-1	171800	172673	171093	171855	0.46	cps
Terbium	159-1	13597139	14533134	14726238	14285504	4.23	cps
Terbium	159-2	10281553	10055872	9893338	10076921	1.93	cps
Thallium	203-1	970	883	723	859	14.57	cps
Thallium	205-1	2564	1970	1593	2042	23.95	cps
Tin	118-1	2194	2117	1933	2081	6.42	cps
Titanium	47-1	877	520	450	616	37.17	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCB043

Instrumnet Name :

P7

Client Sample ID :

CCB043

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 13:58:28

DataFile Name :

049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1567	953	780	1100	37.58	cps
Vanadium	51-2	73	67	63	68	7.51	cps
Yttrium	89-1	12781077	13224264	13485829	13163724	2.71	cps
Yttrium	89-2	3553298	3505859	3528943	3529367	0.67	cps
Zinc	66-2	360	390	387	379	4.34	cps
Zirconium	90-1	1837	1540	1373	1583	14.82	cps
Zirconium	91-1	387	333	247	322	21.93	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5184-20A Instrumnet Name : P7
Client Sample ID : MYCZF8ARE Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:01:46 DataFile Name : 050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	26093165	26097017	26159168	26116450	0.14	cps
Antimony	121-1	8172	8349	8256	8259	1.07	cps
Arsenic	75-2	174445	171491	172273	172736	0.89	cps
Barium	135-1	573679	572766	573732	573392	0.09	cps
Barium	137-1	997191	994281	986358	992610	0.56	cps
Beryllium	9-1	1570	1420	1623	1538	6.86	cps
Bismuth	209-1	8974113	8838107	8727720	8846647	1.40	cps
Bismuth	209-2	7403036	7338186	7413047	7384757	0.55	cps
Bromine	81-1	14641	14818	15011	14823	1.25	cps
Bromine	81-2	390	387	440	406	7.37	cps
Cadmium	108-1	1497	1607	1660	1588	5.25	cps
Cadmium	106-1	5975	5881	5751	5869	1.91	cps
Cadmium	111-1	24447	24441	23609	24166	2.00	cps
Calcium	43-1	389113	393834	390946	391298	0.61	cps
Calcium	44-1	5992851	5962107	5939873	5964944	0.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2012831	1980951	2007110	2000297	0.85	cps
Cobalt	59-2	930158	928003	923934	927365	0.34	cps
Copper	63-2	17425986	17353398	17272690	17350691	0.44	cps
Dysprosium	156-1	62448	62143	62213	62268	0.26	cps
Dysprosium	156-2	49082	49009	49366	49152	0.38	cps
Erbium	164-1	70138	70600	69877	70205	0.52	cps
Erbium	164-2	50203	50324	49758	50095	0.59	cps
Gadolinium	160-1	65241	66098	65264	65534	0.75	cps
Gadolinium	160-2	49203	49363	48634	49067	0.78	cps
Holmium	165-1	15480395	15140006	14967905	15196102	1.72	cps
Holmium	165-2	10703379	10701168	10756469	10720339	0.29	cps
Indium	115-1	12320083	12011307	12219036	12183475	1.29	cps
Indium	115-2	4311197	4342427	4346785	4333470	0.45	cps
Iron	56-2	900874733	885873107	884378867	890375569	1.02	cps
Iron	57-2	21854139	21872969	21625785	21784297	0.63	cps
Iron	54-2	48105438	48003131	47840713	47983094	0.28	cps
Krypton	83-1	330	283	347	320	10.26	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5184-20A Instrumnet Name : P7
Client Sample ID : MYCZF8ARE Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:01:46 DataFile Name : 050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5000973	4959445	4967300	4975906	0.44	cps
Lead	207-1	4639628	4634738	4568080	4614149	0.87	cps
Lead	208-1	20633290	20531852	20370817	20511986	0.65	cps
Lithium	6-1	1904703	1833605	1836165	1858158	2.17	cps
Magnesium	24-2	29446063	29411007	29498090	29451720	0.15	cps
Manganese	55-2	14115395	14037221	13883070	14011895	0.84	cps
Molybdenum	94-1	39262	40128	40028	39806	1.19	cps
Molybdenum	95-1	4117	4251	4304	4224	2.28	cps
Molybdenum	96-1	19970	19747	20274	19997	1.32	cps
Molybdenum	97-1	2624	2797	2774	2731	3.44	cps
Molybdenum	98-1	6311	6485	6378	6391	1.37	cps
Neodymium	150-1	82258	82385	82261	82301	0.09	cps
Neodymium	150-2	49403	48888	49429	49240	0.62	cps
Nickel	60-2	441588	444023	441065	442225	0.36	cps
Phosphorus	31-2	12292	12438	12495	12408	0.85	cps
Potassium	39-2	1292322	1310751	1295815	1299629	0.75	cps
Rhodium	103-1	11136180	10861390	10842406	10946659	1.50	cps
Rhodium	103-2	6585042	6614079	6586323	6595148	0.25	cps
Scandium	45-1	7880787	7790635	7835802	7835741	0.58	cps
Scandium	45-2	667617	667642	662641	665967	0.43	cps
Selenium	82-1	614	704	614	644	8.08	cps
Selenium	77-2	187	267	227	227	17.65	cps
Selenium	78-2	760	740	693	731	4.68	cps
Silicon	28-1	51638294	52203458	51320948	51720900	0.86	cps
Silver	107-1	56044	55375	55382	55600	0.69	cps
Silver	109-1	52799	52685	53167	52884	0.48	cps
Sodium	23-2	91251	91583	90155	90997	0.82	cps
Strontium	86-1	191714	195956	195064	194244	1.15	cps
Strontium	88-1	1726810	1757231	1759895	1747979	1.05	cps
Sulfur	34-1	180455	177069	176776	178100	1.15	cps
Terbium	159-1	15538831	15378062	15267653	15394849	0.89	cps
Terbium	159-2	10772722	10597420	10645263	10671801	0.85	cps
Thallium	203-1	2797	2690	2647	2711	2.85	cps
Thallium	205-1	6482	6188	6285	6318	2.37	cps
Tin	118-1	3460	3791	3404	3552	5.89	cps
Titanium	47-1	2176757	2227139	2220083	2207993	1.24	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5184-20A Instrumnet Name : P7
Client Sample ID : MYCZF8ARE Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:01:46 DataFile Name : 050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	23421	22686	22369	22825	2.36	cps
Vanadium	51-2	2302679	2283690	2277492	2287954	0.57	cps
Yttrium	89-1	15439037	15332113	15306779	15359310	0.46	cps
Yttrium	89-2	4061399	3994446	4020089	4025312	0.84	cps
Zinc	66-2	575018	573585	571350	573318	0.32	cps
Zirconium	90-1	100135	102202	100977	101105	1.03	cps
Zirconium	91-1	21957	22350	23032	22446	2.42	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5191-13A Instrumnet Name : P7
Client Sample ID : MYD033ARE Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:04:49 DataFile Name : 051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8686377	8628692	8568323	8627797	0.68	cps
Antimony	121-1	1453	1487	1557	1499	3.52	cps
Arsenic	75-2	24176	23298	23716	23730	1.85	cps
Barium	135-1	650263	647428	643414	647035	0.53	cps
Barium	137-1	1114841	1119190	1109907	1114646	0.42	cps
Beryllium	9-1	1113	1243	1150	1169	5.73	cps
Bismuth	209-1	8777107	8686679	8581766	8681851	1.13	cps
Bismuth	209-2	7315314	7357874	7311027	7328072	0.35	cps
Bromine	81-1	14250	14958	14567	14592	2.43	cps
Bromine	81-2	310	223	310	281	17.80	cps
Cadmium	108-1	190	217	157	188	16.01	cps
Cadmium	106-1	3764	3831	3644	3746	2.53	cps
Cadmium	111-1	3098	3123	3144	3122	0.74	cps
Calcium	43-1	526465	531357	522853	526892	0.81	cps
Calcium	44-1	8050754	8173758	8083741	8102751	0.79	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	476900	478541	473597	476346	0.53	cps
Cobalt	59-2	271721	271006	270277	271002	0.27	cps
Copper	63-2	572810	571717	566720	570415	0.57	cps
Dysprosium	156-1	48420	47570	47918	47969	0.89	cps
Dysprosium	156-2	42370	41919	41615	41968	0.91	cps
Erbium	164-1	40218	39409	39823	39817	1.02	cps
Erbium	164-2	27858	28746	28259	28288	1.57	cps
Gadolinium	160-1	42581	42835	42956	42791	0.45	cps
Gadolinium	160-2	32337	32447	32284	32356	0.26	cps
Holmium	165-1	14758784	14531781	14433321	14574629	1.15	cps
Holmium	165-2	10582500	10504151	10422028	10502893	0.76	cps
Indium	115-1	12222808	11976353	11923274	12040811	1.33	cps
Indium	115-2	4425587	4403607	4357541	4395578	0.79	cps
Iron	56-2	324489595	324858068	323996575	324448080	0.13	cps
Iron	57-2	7976777	7955402	7897209	7943129	0.52	cps
Iron	54-2	17636963	17428225	17407216	17490802	0.73	cps
Krypton	83-1	300	263	290	284	6.66	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5191-13A Instrumnet Name : P7
Client Sample ID : MYD033ARE Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:04:49 DataFile Name : 051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	191619	193702	192745	192689	0.54	cps
Lead	207-1	138737	138339	136481	137852	0.87	cps
Lead	208-1	671472	673351	664982	669935	0.66	cps
Lithium	6-1	1795956	1797616	1850854	1814809	1.72	cps
Magnesium	24-2	11016233	10937999	10906364	10953532	0.52	cps
Manganese	55-2	4517411	4495774	4512211	4508465	0.25	cps
Molybdenum	94-1	50353	52002	50654	51003	1.72	cps
Molybdenum	95-1	3050	3034	2920	3001	2.36	cps
Molybdenum	96-1	14924	14971	15058	14984	0.45	cps
Molybdenum	97-1	1887	1843	1910	1880	1.80	cps
Molybdenum	98-1	4554	4841	4854	4750	3.57	cps
Neodymium	150-1	86279	88854	87932	87688	1.49	cps
Neodymium	150-2	53106	53357	54106	53523	0.97	cps
Nickel	60-2	135956	134699	135142	135265	0.47	cps
Phosphorus	31-2	25168	25064	24436	24889	1.59	cps
Potassium	39-2	1420294	1414512	1417684	1417497	0.20	cps
Rhodium	103-1	11042332	10898550	10938062	10959648	0.68	cps
Rhodium	103-2	6572813	6587674	6541478	6567321	0.36	cps
Scandium	45-1	6820277	6734161	6708306	6754248	0.87	cps
Scandium	45-2	582286	578884	576847	579339	0.47	cps
Selenium	82-1	149	222	112	161	34.51	cps
Selenium	77-2	93	150	90	111	30.35	cps
Selenium	78-2	640	533	660	611	11.14	cps
Silicon	28-1	21673446	21853428	21824709	21783861	0.44	cps
Silver	107-1	1123	980	963	1022	8.61	cps
Silver	109-1	847	823	877	849	3.15	cps
Sodium	23-2	236205	234168	234496	234956	0.47	cps
Strontium	86-1	297307	297189	298385	297627	0.22	cps
Strontium	88-1	2627233	2681500	2683815	2664183	1.20	cps
Sulfur	34-1	168318	169451	169852	169207	0.47	cps
Terbium	159-1	15341935	15005039	15182688	15176554	1.11	cps
Terbium	159-2	10547567	10416897	10232564	10399009	1.52	cps
Thallium	203-1	1510	1363	1403	1426	5.32	cps
Thallium	205-1	3230	3234	3180	3215	0.93	cps
Tin	118-1	6745	6672	6692	6703	0.57	cps
Titanium	47-1	2803975	2796041	2783629	2794548	0.37	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5191-13A Instrumnet Name : P7
Client Sample ID : MYD033ARE Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:04:49 DataFile Name : 051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	57838	57423	56921	57394	0.80	cps
Vanadium	51-2	560149	558313	552288	556917	0.74	cps
Yttrium	89-1	14792288	14599729	14864212	14752076	0.93	cps
Yttrium	89-2	3944627	3893211	3892787	3910209	0.76	cps
Zinc	66-2	173157	173471	172385	173005	0.32	cps
Zirconium	90-1	132756	134862	134167	133928	0.80	cps
Zirconium	91-1	29680	29917	29807	29801	0.40	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-01DLX2 Instrumnet Name : P7
Client Sample ID : MJNKD0 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:08:00 DataFile Name : 052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2560347	2555036	2586453	2567279	0.66	cps
Antimony	121-1	3878478	3956297	3920065	3918280	0.99	cps
Arsenic	75-2	537416	533468	540626	537170	0.67	cps
Barium	135-1	406138	408959	408067	407721	0.35	cps
Barium	137-1	700487	707406	708931	705608	0.64	cps
Beryllium	9-1	583	620	607	603	3.08	cps
Bismuth	209-1	8917921	8741831	8807805	8822519	1.01	cps
Bismuth	209-2	7541790	7476856	7501831	7506826	0.44	cps
Bromine	81-1	37955	40953	41936	40282	5.15	cps
Bromine	81-2	5564	5491	5428	5494	1.25	cps
Cadmium	108-1	657	677	727	687	5.25	cps
Cadmium	106-1	4494	4354	4197	4348	3.41	cps
Cadmium	111-1	7067	7268	7127	7154	1.45	cps
Calcium	43-1	253032	256849	257717	255866	0.97	cps
Calcium	44-1	3894721	4004649	3912795	3937388	1.50	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	117013	117459	117570	117347	0.25	cps
Cobalt	59-2	688184	685995	688463	687548	0.20	cps
Copper	63-2	3155521	3127503	3130727	3137917	0.49	cps
Dysprosium	156-1	16834	16480	16577	16630	1.10	cps
Dysprosium	156-2	13507	13820	13610	13646	1.17	cps
Erbium	164-1	15489	16193	16126	15936	2.44	cps
Erbium	164-2	11368	11585	11391	11448	1.04	cps
Gadolinium	160-1	16413	16917	16290	16540	2.01	cps
Gadolinium	160-2	12689	12849	12809	12783	0.65	cps
Holmium	165-1	15059389	14582604	14691663	14777885	1.69	cps
Holmium	165-2	10506858	10473975	10530516	10503783	0.27	cps
Indium	115-1	12953796	12606945	12612817	12724519	1.56	cps
Indium	115-2	4713839	4668218	4640108	4674055	0.80	cps
Iron	56-2	251037183	251758183	251435163	251410176	0.14	cps
Iron	57-2	6182132	6066514	6119830	6122825	0.95	cps
Iron	54-2	13520097	13511076	13700630	13577268	0.79	cps
Krypton	83-1	197	307	310	271	23.79	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-01DLX2 Instrumnet Name : P7
Client Sample ID : MJNKD0 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:08:00 DataFile Name : 052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7837803	7915114	7961675	7904864	0.79	cps
Lead	207-1	7190132	7122446	7149604	7154061	0.48	cps
Lead	208-1	32198129	32182874	32407016	32262673	0.39	cps
Lithium	6-1	1856640	1786367	1781824	1808277	2.32	cps
Magnesium	24-2	2465612	2485288	2472001	2474300	0.41	cps
Manganese	55-2	1517895	1481350	1508919	1502721	1.27	cps
Molybdenum	94-1	88904	92181	90826	90637	1.82	cps
Molybdenum	95-1	72729	73721	72304	72918	1.00	cps
Molybdenum	96-1	88922	89988	89002	89304	0.66	cps
Molybdenum	97-1	45383	46447	45955	45929	1.16	cps
Molybdenum	98-1	116164	118244	117044	117151	0.89	cps
Neodymium	150-1	25851	25894	25066	25603	1.82	cps
Neodymium	150-2	15382	15552	15212	15382	1.11	cps
Nickel	60-2	50528	49411	50210	50050	1.15	cps
Phosphorus	31-2	9940	10007	9857	9934	0.76	cps
Potassium	39-2	1333151	1351130	1366437	1350239	1.23	cps
Rhodium	103-1	11261557	11123775	11133653	11172995	0.69	cps
Rhodium	103-2	6768721	6659187	6842234	6756714	1.36	cps
Scandium	45-1	6847324	6698524	6812794	6786214	1.15	cps
Scandium	45-2	577296	583361	590253	583637	1.11	cps
Selenium	82-1	391	250	233	291	29.72	cps
Selenium	77-2	53	97	63	71	31.91	cps
Selenium	78-2	547	523	687	586	15.09	cps
Silicon	28-1	18536559	18609725	18877445	18674577	0.96	cps
Silver	107-1	24017	25255	24537	24603	2.53	cps
Silver	109-1	23169	24227	23359	23585	2.39	cps
Sodium	23-2	4938664	4954928	4997211	4963601	0.61	cps
Strontium	86-1	256450	262280	261730	260153	1.24	cps
Strontium	88-1	2324008	2337361	2312467	2324612	0.54	cps
Sulfur	34-1	240396	242968	239518	240961	0.74	cps
Terbium	159-1	15435764	14969963	15024773	15143500	1.68	cps
Terbium	159-2	10346315	10466638	10469079	10427344	0.67	cps
Thallium	203-1	4804	5184	4844	4944	4.22	cps
Thallium	205-1	11575	11445	11765	11595	1.39	cps
Tin	118-1	1094507	1105277	1099396	1099727	0.49	cps
Titanium	47-1	623622	631042	632089	628918	0.73	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5248-01DLX2

Instrumnet Name :

P7

Client Sample ID :

MJNKD0

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 14:08:00

DataFile Name :

052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	43474	44143	43825	43814	0.76	cps
Vanadium	51-2	141468	140220	141330	141006	0.49	cps
Yttrium	89-1	14688086	14296088	14412924	14465699	1.39	cps
Yttrium	89-2	3844370	3879843	3882582	3868932	0.55	cps
Zinc	66-2	3643429	3588857	3676804	3636364	1.22	cps
Zirconium	90-1	132045	133278	131778	132367	0.60	cps
Zirconium	91-1	30164	30559	30642	30455	0.84	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-02DLX2 Instrumnet Name : P7
Client Sample ID : MJNKD0D Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:11:01 DataFile Name : 053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2593521	2598723	2531967	2574737	1.44	cps
Antimony	121-1	3929628	3951943	3917005	3932859	0.45	cps
Arsenic	75-2	541268	538764	537546	539193	0.35	cps
Barium	135-1	404597	411213	408666	408159	0.82	cps
Barium	137-1	696850	710341	704566	703919	0.96	cps
Beryllium	9-1	613	583	600	599	2.51	cps
Bismuth	209-1	8803975	8806598	8697418	8769330	0.71	cps
Bismuth	209-2	7606120	7513403	7517482	7545668	0.69	cps
Bromine	81-1	38928	41401	42364	40898	4.33	cps
Bromine	81-2	5581	5484	5598	5554	1.10	cps
Cadmium	108-1	650	613	740	668	9.76	cps
Cadmium	106-1	4487	4491	4467	4482	0.28	cps
Cadmium	111-1	7174	7352	7123	7216	1.66	cps
Calcium	43-1	255523	255575	257320	256140	0.40	cps
Calcium	44-1	3924547	3938014	3923466	3928676	0.21	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	119932	118991	118081	119001	0.78	cps
Cobalt	59-2	695983	691723	689134	692280	0.50	cps
Copper	63-2	3172632	3164860	3192721	3176738	0.45	cps
Dysprosium	156-1	16493	16740	16540	16591	0.79	cps
Dysprosium	156-2	13633	13477	13440	13517	0.76	cps
Erbium	164-1	15882	15926	16400	16069	1.79	cps
Erbium	164-2	11064	11602	11308	11325	2.37	cps
Gadolinium	160-1	15956	16744	16737	16479	2.75	cps
Gadolinium	160-2	12733	12586	12582	12634	0.68	cps
Holmium	165-1	14659123	14737262	14595071	14663819	0.49	cps
Holmium	165-2	10577582	10547081	10524968	10549877	0.25	cps
Indium	115-1	12849676	12887055	12687193	12807975	0.83	cps
Indium	115-2	4757359	4686492	4651847	4698566	1.14	cps
Iron	56-2	254954210	256462943	250919363	254112172	1.13	cps
Iron	57-2	6187944	6240923	6155328	6194731	0.70	cps
Iron	54-2	13787238	13706533	13509631	13667800	1.04	cps
Krypton	83-1	217	343	220	260	27.77	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-02DLX2 Instrumnet Name : P7
Client Sample ID : MJNKD0D Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:11:01 DataFile Name : 053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7751427	7933308	7838451	7841062	1.16	cps
Lead	207-1	7101604	7109559	7199136	7136766	0.76	cps
Lead	208-1	31698861	32247966	32237819	32061549	0.98	cps
Lithium	6-1	1808877	1782692	1801205	1797591	0.75	cps
Magnesium	24-2	2465287	2468865	2482711	2472288	0.37	cps
Manganese	55-2	1540243	1522870	1498059	1520391	1.39	cps
Molybdenum	94-1	89726	91101	90718	90515	0.78	cps
Molybdenum	95-1	72559	73825	73376	73253	0.88	cps
Molybdenum	96-1	89367	90182	89693	89747	0.46	cps
Molybdenum	97-1	45527	46166	45577	45757	0.78	cps
Molybdenum	98-1	117000	119440	118512	118317	1.04	cps
Neodymium	150-1	25410	26021	25383	25604	1.41	cps
Neodymium	150-2	15519	15479	15472	15490	0.16	cps
Nickel	60-2	49970	50314	50993	50426	1.03	cps
Phosphorus	31-2	10304	10254	10460	10339	1.04	cps
Potassium	39-2	1342382	1372930	1377667	1364327	1.40	cps
Rhodium	103-1	11278821	11233695	11221817	11244777	0.27	cps
Rhodium	103-2	6781178	6791897	6692558	6755211	0.81	cps
Scandium	45-1	6895000	6786994	6768061	6816685	1.00	cps
Scandium	45-2	593237	589374	582450	588354	0.93	cps
Selenium	82-1	354	186	353	298	32.39	cps
Selenium	77-2	53	43	50	49	10.42	cps
Selenium	78-2	543	643	550	579	9.66	cps
Silicon	28-1	18593820	18901216	19059853	18851630	1.26	cps
Silver	107-1	23773	24938	24347	24353	2.39	cps
Silver	109-1	22858	23162	23683	23234	1.79	cps
Sodium	23-2	5040325	4974903	4987822	5001017	0.69	cps
Strontium	86-1	257804	259770	263250	260275	1.06	cps
Strontium	88-1	2319026	2352308	2356250	2342528	0.87	cps
Sulfur	34-1	233660	236361	237710	235910	0.87	cps
Terbium	159-1	15317976	15082005	15088803	15162928	0.89	cps
Terbium	159-2	10581046	10434510	10387812	10467789	0.96	cps
Thallium	203-1	4421	4474	4477	4457	0.71	cps
Thallium	205-1	10311	10294	10911	10505	3.35	cps
Tin	118-1	1092007	1102039	1102787	1098944	0.55	cps
Titanium	47-1	624405	633984	632159	630183	0.81	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5248-02DLX2

Instrumnet Name :

P7

Client Sample ID :

MJNKD0D

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 14:11:01

DataFile Name :

053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	43099	43461	43447	43336	0.47	cps
Vanadium	51-2	143857	142084	140924	142289	1.04	cps
Yttrium	89-1	14757189	14529336	14632267	14639598	0.78	cps
Yttrium	89-2	3962283	3855130	3821873	3879762	1.89	cps
Zinc	66-2	3660237	3653252	3696382	3669957	0.63	cps
Zirconium	90-1	131859	133998	132639	132832	0.81	cps
Zirconium	91-1	29830	30144	30448	30141	1.03	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-01LDLX10 Instrumnet Name : P7
Client Sample ID : MJNKD0L Dilution Factor : 10
Date & Time Acquired : 2024-12-23 14:14:03 DataFile Name : 054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	501982	498915	497809	499569	0.43	cps
Antimony	121-1	730553	733916	734166	732878	0.28	cps
Arsenic	75-2	107724	107895	107193	107604	0.34	cps
Barium	135-1	80536	81823	80583	80981	0.90	cps
Barium	137-1	137830	139149	139290	138756	0.58	cps
Beryllium	9-1	210	213	163	196	14.29	cps
Bismuth	209-1	8749510	8576646	8548924	8625027	1.26	cps
Bismuth	209-2	7363868	7222950	7307572	7298130	0.97	cps
Bromine	81-1	20685	21015	20645	20781	0.98	cps
Bromine	81-2	1300	1430	1297	1342	5.66	cps
Cadmium	108-1	157	193	167	172	11.01	cps
Cadmium	106-1	3594	3177	3244	3338	6.71	cps
Cadmium	111-1	3346	3095	2941	3127	6.54	cps
Calcium	43-1	50430	50888	51072	50797	0.65	cps
Calcium	44-1	821535	823339	823760	822878	0.14	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	24737	24009	24811	24519	1.81	cps
Cobalt	59-2	136352	137073	138829	137418	0.93	cps
Copper	63-2	604550	603172	607917	605213	0.40	cps
Dysprosium	156-1	3324	3310	3284	3306	0.62	cps
Dysprosium	156-2	2580	2647	2750	2659	3.22	cps
Erbium	164-1	3087	3360	2974	3140	6.33	cps
Erbium	164-2	2257	2310	2457	2341	4.42	cps
Gadolinium	160-1	3300	3367	3217	3295	2.28	cps
Gadolinium	160-2	3050	2870	3137	3019	4.51	cps
Holmium	165-1	14542610	14497221	14226964	14422265	1.18	cps
Holmium	165-2	10451900	10239347	10243770	10311672	1.18	cps
Indium	115-1	12402343	11986683	12149462	12179496	1.72	cps
Indium	115-2	4406360	4417734	4443251	4422448	0.43	cps
Iron	56-2	49538326	49813679	49809606	49720537	0.32	cps
Iron	57-2	1239622	1248599	1238891	1242371	0.44	cps
Iron	54-2	2689202	2683999	2712615	2695272	0.57	cps
Krypton	83-1	157	227	260	214	24.59	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-01LDLX10 Instrumnet Name : P7
Client Sample ID : MJNKD0L Dilution Factor : 10
Date & Time Acquired : 2024-12-23 14:14:03 DataFile Name : 054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1450917	1441686	1444774	1445792	0.32	cps
Lead	207-1	1276732	1281357	1284763	1280951	0.31	cps
Lead	208-1	6094078	6104324	6158132	6118845	0.56	cps
Lithium	6-1	1805748	1782713	1755242	1781235	1.42	cps
Magnesium	24-2	480999	483034	477764	480599	0.55	cps
Manganese	55-2	293446	291816	289272	291511	0.72	cps
Molybdenum	94-1	18195	18004	18075	18091	0.53	cps
Molybdenum	95-1	14974	14674	14818	14822	1.01	cps
Molybdenum	96-1	17694	18211	17828	17911	1.50	cps
Molybdenum	97-1	9120	8853	9010	8994	1.49	cps
Molybdenum	98-1	23519	23763	22951	23411	1.78	cps
Neodymium	150-1	4891	4968	5018	4959	1.29	cps
Neodymium	150-2	3037	3060	3027	3041	0.56	cps
Nickel	60-2	10550	10540	10154	10415	2.17	cps
Phosphorus	31-2	2104	2027	2114	2081	2.28	cps
Potassium	39-2	318314	317722	320638	318891	0.48	cps
Rhodium	103-1	11249520	11119705	11040034	11136420	0.95	cps
Rhodium	103-2	6756246	6683978	6664767	6701664	0.72	cps
Scandium	45-1	6747433	6616177	6571487	6645032	1.38	cps
Scandium	45-2	570190	570880	575085	572052	0.46	cps
Selenium	82-1	245	139	121	168	39.60	cps
Selenium	77-2	23	30	13	22	37.76	cps
Selenium	78-2	503	507	457	489	5.72	cps
Silicon	28-1	4381935	4397160	4437196	4405430	0.65	cps
Silver	107-1	4737	4994	5068	4933	3.51	cps
Silver	109-1	4801	4644	4461	4635	3.67	cps
Sodium	23-2	994117	989453	982132	988568	0.61	cps
Strontium	86-1	51547	51630	51918	51698	0.38	cps
Strontium	88-1	446098	445377	445667	445714	0.08	cps
Sulfur	34-1	166816	167203	167399	167139	0.18	cps
Terbium	159-1	15159743	14723064	14682881	14855230	1.78	cps
Terbium	159-2	10306019	10210557	10208698	10241758	0.54	cps
Thallium	203-1	1257	1253	1253	1255	0.15	cps
Thallium	205-1	3054	2810	2874	2913	4.34	cps
Tin	118-1	219713	221053	219808	220191	0.34	cps
Titanium	47-1	123720	124080	124933	124244	0.50	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5248-01LDLX10

Instrumnet Name :

P7

Client Sample ID :

MJNKD0L

Dilution Factor :

10

Date & Time Acquired :

2024-12-23 14:14:03

DataFile Name :

054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8576	8416	8519	8504	0.95	cps
Vanadium	51-2	28016	28046	28066	28043	0.09	cps
Yttrium	89-1	14307613	14091188	14052878	14150560	0.97	cps
Yttrium	89-2	3714394	3736924	3732441	3727920	0.32	cps
Zinc	66-2	700605	700756	701177	700846	0.04	cps
Zirconium	90-1	26220	26330	26788	26446	1.14	cps
Zirconium	91-1	6035	6325	5955	6105	3.19	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-03DLX2 Instrumnet Name : P7
Client Sample ID : MJNKD0S Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:17:18 DataFile Name : 055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2666050	2656763	2632496	2651770	0.65	cps
Antimony	121-1	4101460	4125050	4108600	4111703	0.29	cps
Arsenic	75-2	552772	546378	550425	549858	0.59	cps
Barium	135-1	1091257	1106637	1104469	1100788	0.76	cps
Barium	137-1	1995058	2011413	1985302	1997258	0.66	cps
Beryllium	9-1	8873	8959	9169	9000	1.70	cps
Bismuth	209-1	8740520	8792404	8623140	8718688	0.99	cps
Bismuth	209-2	7579918	7507034	7542394	7543115	0.48	cps
Bromine	81-1	38470	40913	41017	40133	3.59	cps
Bromine	81-2	5401	5474	5614	5497	1.97	cps
Cadmium	108-1	1943	1980	1880	1935	2.62	cps
Cadmium	106-1	5958	5981	5881	5940	0.88	cps
Cadmium	111-1	25251	25278	25428	25319	0.38	cps
Calcium	43-1	256343	262198	260561	259701	1.16	cps
Calcium	44-1	3925222	3966097	3931625	3940982	0.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	238194	232620	235236	235350	1.18	cps
Cobalt	59-2	1154621	1151564	1151236	1152473	0.16	cps
Copper	63-2	3346784	3333403	3323611	3334599	0.35	cps
Dysprosium	156-1	16533	16950	16950	16811	1.43	cps
Dysprosium	156-2	13467	14020	13864	13784	2.07	cps
Erbium	164-1	16206	16093	16209	16169	0.41	cps
Erbium	164-2	11735	11872	11658	11755	0.92	cps
Gadolinium	160-1	16383	16914	16774	16690	1.65	cps
Gadolinium	160-2	12779	13123	12696	12866	1.76	cps
Holmium	165-1	14474154	14461135	14330915	14422068	0.55	cps
Holmium	165-2	10514350	10548282	10509451	10524028	0.20	cps
Indium	115-1	12387708	12621573	12593556	12534279	1.02	cps
Indium	115-2	4619336	4620241	4642169	4627249	0.28	cps
Iron	56-2	258303489	255140990	254481736	255975405	0.80	cps
Iron	57-2	6318635	6211221	6293334	6274397	0.89	cps
Iron	54-2	13846659	13805676	13985995	13879443	0.68	cps
Krypton	83-1	237	293	297	276	12.24	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-03DLX2 Instrumnet Name : P7
Client Sample ID : MJNKD0S Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:17:18 DataFile Name : 055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7817541	7912649	7813426	7847872	0.72	cps
Lead	207-1	7178651	7221929	7257608	7219396	0.55	cps
Lead	208-1	32362032	32687312	32419620	32489655	0.53	cps
Lithium	6-1	1796909	1770285	1793577	1786924	0.81	cps
Magnesium	24-2	2525615	2482984	2448370	2485656	1.56	cps
Manganese	55-2	1759821	1737438	1736840	1744700	0.75	cps
Molybdenum	94-1	89958	92084	90594	90878	1.20	cps
Molybdenum	95-1	73423	74023	75188	74211	1.21	cps
Molybdenum	96-1	90219	89505	91165	90296	0.92	cps
Molybdenum	97-1	46300	46293	46798	46464	0.62	cps
Molybdenum	98-1	118408	118939	121903	119750	1.57	cps
Neodymium	150-1	25266	25613	25153	25344	0.95	cps
Neodymium	150-2	15782	15599	15776	15719	0.66	cps
Nickel	60-2	165977	166749	164760	165829	0.60	cps
Phosphorus	31-2	10237	10067	10414	10239	1.69	cps
Potassium	39-2	1385633	1365945	1376428	1376002	0.72	cps
Rhodium	103-1	11095704	11080211	11081018	11085644	0.08	cps
Rhodium	103-2	6850463	6679539	6725051	6751684	1.31	cps
Scandium	45-1	6581437	6714416	6603635	6633162	1.07	cps
Scandium	45-2	588931	581404	582192	584176	0.71	cps
Selenium	82-1	2604	2656	2543	2601	2.18	cps
Selenium	77-2	317	293	317	309	4.36	cps
Selenium	78-2	1440	1330	1387	1386	3.97	cps
Silicon	28-1	18582781	19058840	18914815	18852146	1.30	cps
Silver	107-1	112979	112986	114080	113348	0.56	cps
Silver	109-1	108344	107955	108871	108390	0.42	cps
Sodium	23-2	5053804	5002486	5007028	5021106	0.57	cps
Strontium	86-1	260405	263319	266382	263369	1.13	cps
Strontium	88-1	2324161	2355093	2368462	2349239	0.97	cps
Sulfur	34-1	230996	230458	227796	229750	0.75	cps
Terbium	159-1	14959560	14888828	14749296	14865894	0.72	cps
Terbium	159-2	10596143	10435468	10403246	10478286	0.99	cps
Thallium	203-1	65212	65379	65252	65281	0.13	cps
Thallium	205-1	152190	155548	154547	154095	1.12	cps
Tin	118-1	1104549	1118151	1110656	1111118	0.61	cps
Titanium	47-1	625387	639044	635018	633150	1.11	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-03DLX2 Instrumnet Name : P7
Client Sample ID : MJNKD0S Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:17:18 DataFile Name : 055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	43113	44267	44006	43795	1.38	cps
Vanadium	51-2	397698	392417	396399	395505	0.70	cps
Yttrium	89-1	14311591	14352541	14439039	14367724	0.45	cps
Yttrium	89-2	3831769	3792905	3839154	3821276	0.65	cps
Zinc	66-2	3675583	3711092	3726748	3704474	0.71	cps
Zirconium	90-1	130719	133954	133224	132632	1.28	cps
Zirconium	91-1	30131	30836	30525	30497	1.16	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-12DLX2 Instrumnet Name : P7
Client Sample ID : MJNLH6 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:20:22 DataFile Name : 056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2386473	2426482	2396918	2403291	0.86	cps
Antimony	121-1	4073699	4110841	4103336	4095959	0.48	cps
Arsenic	75-2	519936	521101	516530	519189	0.46	cps
Barium	135-1	384903	387219	385837	385986	0.30	cps
Barium	137-1	664776	668950	674045	669257	0.69	cps
Beryllium	9-1	687	587	560	611	10.93	cps
Bismuth	209-1	8691611	8791759	8651840	8711737	0.83	cps
Bismuth	209-2	7458334	7493465	7423890	7458563	0.47	cps
Bromine	81-1	34053	36244	36131	35476	3.48	cps
Bromine	81-2	4694	4454	4364	4504	3.79	cps
Cadmium	108-1	723	593	637	651	10.17	cps
Cadmium	106-1	4391	4354	4117	4287	3.46	cps
Cadmium	111-1	6621	6840	6290	6584	4.20	cps
Calcium	43-1	308870	311961	308338	309723	0.63	cps
Calcium	44-1	4717790	4731906	4770944	4740214	0.58	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	110904	112264	110709	111292	0.76	cps
Cobalt	59-2	659755	659196	659631	659527	0.04	cps
Copper	63-2	2956835	2889474	2910871	2919060	1.18	cps
Dysprosium	156-1	15852	16216	15946	16005	1.18	cps
Dysprosium	156-2	12836	13773	13090	13233	3.66	cps
Erbium	164-1	15712	15489	15319	15506	1.27	cps
Erbium	164-2	11435	11061	10868	11121	2.59	cps
Gadolinium	160-1	15525	16216	16223	15988	2.51	cps
Gadolinium	160-2	12309	12652	12566	12509	1.43	cps
Holmium	165-1	14834731	14751292	14456540	14680855	1.35	cps
Holmium	165-2	10426203	10450870	10309747	10395607	0.73	cps
Indium	115-1	12794381	12661348	12659902	12705210	0.61	cps
Indium	115-2	4663704	4643283	4682960	4663316	0.43	cps
Iron	56-2	242983216	242860650	239900170	241914679	0.72	cps
Iron	57-2	5903866	5949071	5838114	5897017	0.95	cps
Iron	54-2	13077216	13038788	12886141	13000715	0.78	cps
Krypton	83-1	263	257	220	247	9.46	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-12DLX2 Instrumnet Name : P7
Client Sample ID : MJNLH6 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:20:22 DataFile Name : 056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7211739	7309959	7216481	7246060	0.76	cps
Lead	207-1	6551593	6611451	6553104	6572049	0.52	cps
Lead	208-1	29475390	30002389	29472682	29650154	1.03	cps
Lithium	6-1	1798302	1772653	1795988	1788981	0.79	cps
Magnesium	24-2	2310927	2271250	2302013	2294730	0.91	cps
Manganese	55-2	1467483	1487520	1440931	1465312	1.59	cps
Molybdenum	94-1	82105	84659	84964	83910	1.87	cps
Molybdenum	95-1	68131	70612	68717	69153	1.88	cps
Molybdenum	96-1	83778	84378	83741	83966	0.43	cps
Molybdenum	97-1	42371	43973	43471	43272	1.89	cps
Molybdenum	98-1	109782	112693	112496	111657	1.46	cps
Neodymium	150-1	24882	24839	24685	24802	0.42	cps
Neodymium	150-2	15712	15365	14811	15296	2.97	cps
Nickel	60-2	46943	47478	48100	47507	1.22	cps
Phosphorus	31-2	10120	10630	10397	10382	2.46	cps
Potassium	39-2	1321582	1321432	1328534	1323849	0.31	cps
Rhodium	103-1	11220168	11162076	11265417	11215887	0.46	cps
Rhodium	103-2	6787108	6751404	6781844	6773452	0.28	cps
Scandium	45-1	6836982	6787723	6774494	6799733	0.48	cps
Scandium	45-2	583601	581544	580530	581892	0.27	cps
Selenium	82-1	242	284	306	277	11.80	cps
Selenium	77-2	63	63	73	67	8.66	cps
Selenium	78-2	500	533	510	514	3.33	cps
Silicon	28-1	15645395	15734693	15708176	15696088	0.29	cps
Silver	107-1	22811	23142	23219	23057	0.94	cps
Silver	109-1	22027	22351	22120	22166	0.75	cps
Sodium	23-2	4651338	4595661	4612254	4619751	0.62	cps
Strontium	86-1	275099	276777	274682	275519	0.40	cps
Strontium	88-1	2448697	2495248	2486525	2476823	1.00	cps
Sulfur	34-1	214135	214595	214957	214563	0.19	cps
Terbium	159-1	15235432	15095957	15078682	15136690	0.57	cps
Terbium	159-2	10473210	10461793	10414062	10449688	0.30	cps
Thallium	203-1	3741	3767	4284	3931	7.79	cps
Thallium	205-1	9073	9180	9110	9121	0.59	cps
Tin	118-1	1005411	1006729	1015474	1009205	0.54	cps
Titanium	47-1	567158	577443	574442	573014	0.92	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5248-12DLX2 Instrumnet Name : P7
Client Sample ID : MJNLH6 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 14:20:22 DataFile Name : 056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	38476	38034	38826	38445	1.03	cps
Vanadium	51-2	135411	136554	135373	135779	0.49	cps
Yttrium	89-1	14598294	14710941	14435991	14581742	0.95	cps
Yttrium	89-2	3877969	3872833	3793378	3848060	1.23	cps
Zinc	66-2	3434090	3434933	3404087	3424370	0.51	cps
Zirconium	90-1	121249	122495	123174	122306	0.80	cps
Zirconium	91-1	27873	27496	27977	27782	0.91	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV044 Instrumnet Name : P7
Client Sample ID : CCV044 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:23:22 DataFile Name : 057CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	13440339	13229519	13240304	13303388	0.89	cps
Antimony	121-1	5937432	6029714	5916029	5961058	1.01	cps
Arsenic	75-2	287853	282322	281985	284053	1.16	cps
Barium	135-1	7716703	7800997	7723815	7747172	0.60	cps
Barium	137-1	13328129	13407909	13356485	13364174	0.30	cps
Beryllium	9-1	706425	711634	711030	709696	0.40	cps
Bismuth	209-1	7910891	7582644	7697214	7730250	2.16	cps
Bismuth	209-2	6521440	6452136	6528454	6500677	0.65	cps
Bromine	81-1	14924	13943	13736	14201	4.47	cps
Bromine	81-2	250	227	267	248	8.11	cps
Cadmium	108-1	105221	107081	105077	105793	1.06	cps
Cadmium	106-1	152911	152339	150375	151875	0.88	cps
Cadmium	111-1	1414989	1418240	1422875	1418701	0.28	cps
Calcium	43-1	8119942	7861521	7864439	7948634	1.87	cps
Calcium	44-1	128220921	127140121	126671188	127344077	0.62	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2323845	2262302	2260456	2282201	1.58	cps
Cobalt	59-2	3562428	3547667	3533844	3547979	0.40	cps
Copper	63-2	24963173	24939406	25069720	24990767	0.28	cps
Dysprosium	156-1	320	317	317	318	0.61	cps
Dysprosium	156-2	500	483	517	500	3.33	cps
Erbium	164-1	310	273	283	289	6.56	cps
Erbium	164-2	193	203	200	199	2.56	cps
Gadolinium	160-1	247	320	337	301	15.90	cps
Gadolinium	160-2	560	543	553	552	1.52	cps
Holmium	165-1	14418529	13812058	13690684	13973757	2.79	cps
Holmium	165-2	9773810	9884509	9895489	9851269	0.68	cps
Indium	115-1	10980903	10490760	10506106	10659256	2.61	cps
Indium	115-2	3867861	3794706	3839355	3833974	0.96	cps
Iron	56-2	540689072	536778445	536574712	538014076	0.43	cps
Iron	57-2	13350087	13402084	13362661	13371611	0.20	cps
Iron	54-2	29309047	29374156	28999385	29227530	0.69	cps
Krypton	83-1	227	257	257	247	7.02	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV044 Instrumnet Name : P7
Client Sample ID : CCV044 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:23:22 DataFile Name : 057CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21890397	22705340	22008358	22201365	1.98	cps
Lead	207-1	19880086	20440633	19984291	20101670	1.48	cps
Lead	208-1	90005124	92235417	90563353	90934631	1.28	cps
Lithium	6-1	1713886	1700622	1690005	1701505	0.70	cps
Magnesium	24-2	103026975	102025582	103037832	102696796	0.57	cps
Manganese	55-2	18393470	18130903	18102441	18208938	0.88	cps
Molybdenum	94-1	21099260	20749289	20803142	20883897	0.90	cps
Molybdenum	95-1	30406482	30230586	29951742	30196270	0.76	cps
Molybdenum	96-1	33109701	33028756	32604211	32914223	0.82	cps
Molybdenum	97-1	18973191	18896268	18534859	18801439	1.24	cps
Molybdenum	98-1	49143676	48854318	47935989	48644661	1.30	cps
Neodymium	150-1	467	463	457	462	1.10	cps
Neodymium	150-2	113	170	123	136	22.31	cps
Nickel	60-2	853692	840972	842373	845679	0.82	cps
Phosphorus	31-2	117560	116328	117308	117065	0.56	cps
Potassium	39-2	65720531	65155844	65227141	65367838	0.47	cps
Rhodium	103-1	9917013	9438578	9259654	9538415	3.56	cps
Rhodium	103-2	5690475	5656280	5583714	5643490	0.97	cps
Scandium	45-1	6401315	5910615	5869553	6060494	4.88	cps
Scandium	45-2	503862	502507	503269	503213	0.13	cps
Selenium	82-1	86020	86447	85878	86115	0.34	cps
Selenium	77-2	8893	8776	8963	8877	1.06	cps
Selenium	78-2	30064	30024	28678	29588	2.67	cps
Silicon	28-1	3530954	3502223	3495904	3509693	0.53	cps
Silver	107-1	7393178	7251564	7107112	7250618	1.97	cps
Silver	109-1	7067232	6924770	6975997	6989333	1.03	cps
Sodium	23-2	167463608	167996168	166622121	167360632	0.41	cps
Strontium	86-1	1941532	1941238	1938516	1940429	0.09	cps
Strontium	88-1	16864981	16722779	16839986	16809249	0.45	cps
Sulfur	34-1	613232	603082	596347	604220	1.41	cps
Terbium	159-1	14561094	13920592	13965769	14149152	2.53	cps
Terbium	159-2	9750389	9732851	9703052	9728764	0.25	cps
Thallium	203-1	5652591	5756581	5825151	5744774	1.51	cps
Thallium	205-1	13434166	13824034	13554050	13604084	1.47	cps
Tin	118-1	4981584	5029333	4930437	4980451	0.99	cps
Titanium	47-1	7555610	7376087	7420731	7450809	1.25	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCV044

Instrumnet Name :

P7

Client Sample ID :

CCV044

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:23:22

DataFile Name :

057CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17942785	18302835	18377423	18207681	1.28	cps
Vanadium	51-2	2061082	2065317	2057390	2061263	0.19	cps
Yttrium	89-1	13552081	12909815	12842145	13101347	2.99	cps
Yttrium	89-2	3380709	3335210	3347616	3354511	0.70	cps
Zinc	66-2	4100866	4085193	4092728	4092929	0.19	cps
Zirconium	90-1	10379198	10353565	10251803	10328189	0.65	cps
Zirconium	91-1	2262250	2276537	2295373	2278053	0.73	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB044 Instrumnet Name : P7
Client Sample ID : CCB044 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:26:08 DataFile Name : 058CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	917	693	567	726	24.42	cps
Antimony	121-1	3350	2804	2800	2985	10.61	cps
Arsenic	75-2	57	23	20	33	60.84	cps
Barium	135-1	1357	1243	923	1175	19.14	cps
Barium	137-1	2117	2244	1850	2070	9.70	cps
Beryllium	9-1	303	233	237	258	15.32	cps
Bismuth	209-1	8779272	8600601	8679270	8686381	1.03	cps
Bismuth	209-2	7438271	7369529	7401226	7403009	0.46	cps
Bromine	81-1	14344	14447	14454	14415	0.43	cps
Bromine	81-2	230	280	307	272	14.30	cps
Cadmium	108-1	23	23	17	21	18.21	cps
Cadmium	106-1	3287	3084	3324	3232	4.00	cps
Cadmium	111-1	2551	2456	2622	2543	3.28	cps
Calcium	43-1	1833	1677	1373	1628	14.37	cps
Calcium	44-1	30922	30968	25769	29220	10.23	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1507	1477	1477	1487	1.16	cps
Cobalt	59-2	357	263	223	281	24.34	cps
Copper	63-2	2500	1923	1823	2082	17.54	cps
Dysprosium	156-1	13	10	23	16	44.60	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	50	37	60	49	23.94	cps
Erbium	164-2	30	37	27	31	16.37	cps
Gadolinium	160-1	37	30	70	46	47.04	cps
Gadolinium	160-2	483	467	463	471	2.28	cps
Holmium	165-1	14326226	14432102	14210036	14322788	0.78	cps
Holmium	165-2	10101865	10284031	10189421	10191772	0.89	cps
Indium	115-1	11711960	11739050	11796748	11749253	0.37	cps
Indium	115-2	4270072	4237352	4218567	4241997	0.61	cps
Iron	56-2	52244	44693	38847	45261	14.84	cps
Iron	57-2	1667	1493	1417	1526	8.40	cps
Iron	54-2	4311	3654	3327	3764	13.31	cps
Krypton	83-1	193	227	210	210	7.94	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB044 Instrumnet Name : P7
Client Sample ID : CCB044 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:26:08 DataFile Name : 058CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4774	4931	3904	4536	12.20	cps
Lead	207-1	4434	4257	3444	4045	13.06	cps
Lead	208-1	19512	19262	15881	18218	11.13	cps
Lithium	6-1	1812445	1830165	1805384	1815998	0.70	cps
Magnesium	24-2	7062	5198	4451	5570	24.14	cps
Manganese	55-2	1567	1217	893	1226	27.48	cps
Molybdenum	94-1	3994	4171	3364	3843	11.04	cps
Molybdenum	95-1	5524	5688	4334	5182	14.26	cps
Molybdenum	96-1	6241	5935	4911	5696	12.23	cps
Molybdenum	97-1	3390	3340	2944	3225	7.59	cps
Molybdenum	98-1	9123	8793	6945	8287	14.16	cps
Neodymium	150-1	10	3	0	4	114.60	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	357	373	380	370	3.25	cps
Phosphorus	31-2	197	143	143	161	19.11	cps
Potassium	39-2	52744	53149	52115	52670	0.99	cps
Rhodium	103-1	10601443	10617462	10632586	10617164	0.15	cps
Rhodium	103-2	6567129	6477158	6456472	6500253	0.91	cps
Scandium	45-1	6231269	6148572	6337187	6239009	1.52	cps
Scandium	45-2	524125	527383	533617	528375	0.91	cps
Selenium	82-1	114	86	107	102	14.49	cps
Selenium	77-2	3	3	3	3	0.00	cps
Selenium	78-2	427	443	463	444	4.13	cps
Silicon	28-1	594367	598907	597351	596875	0.39	cps
Silver	107-1	2180	1940	1587	1902	15.69	cps
Silver	109-1	2020	1783	1537	1780	13.58	cps
Sodium	23-2	40339	39023	36817	38726	4.60	cps
Strontium	86-1	683	643	647	658	3.37	cps
Strontium	88-1	3097	2844	2560	2834	9.48	cps
Sulfur	34-1	175239	178766	178317	177441	1.08	cps
Terbium	159-1	14820648	14766552	14649684	14745628	0.59	cps
Terbium	159-2	10029115	10153681	10243079	10141958	1.06	cps
Thallium	203-1	1923	1803	1350	1692	17.87	cps
Thallium	205-1	5008	4231	3727	4322	14.93	cps
Tin	118-1	2547	2424	2277	2416	5.60	cps
Titanium	47-1	1257	1283	1020	1187	12.22	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCB044

Instrumnet Name :

P7

Client Sample ID :

CCB044

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:26:08

DataFile Name :

058CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2827	2734	2064	2541	16.39	cps
Vanadium	51-2	117	117	77	103	22.35	cps
Yttrium	89-1	13555129	13743874	13643355	13647453	0.69	cps
Yttrium	89-2	3584826	3504702	3548032	3545853	1.13	cps
Zinc	66-2	513	517	423	484	10.93	cps
Zirconium	90-1	2597	2650	2274	2507	8.13	cps
Zirconium	91-1	573	623	507	568	10.31	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165532BL Instrumnet Name : P7
Client Sample ID : PBS532 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:35:44 DataFile Name : 059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	230	263	210	234	11.49	cps
Antimony	121-1	400	343	303	349	13.92	cps
Arsenic	75-2	0	10	10	7	86.60	cps
Barium	135-1	63	50	67	60	14.70	cps
Barium	137-1	133	130	107	123	11.78	cps
Beryllium	9-1	53	97	83	78	28.54	cps
Bismuth	209-1	8777669	8623931	8474917	8625506	1.76	cps
Bismuth	209-2	7398146	7489843	7352151	7413380	0.95	cps
Bromine	81-1	15268	14697	15061	15009	1.92	cps
Bromine	81-2	137	113	133	128	9.88	cps
Cadmium	108-1	10	3	7	7	50.03	cps
Cadmium	106-1	3047	3000	2974	3007	1.23	cps
Cadmium	111-1	2139	2131	2104	2125	0.88	cps
Calcium	43-1	337	360	373	357	5.20	cps
Calcium	44-1	9613	9676	9743	9678	0.67	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1327	1510	1430	1422	6.46	cps
Cobalt	59-2	147	107	147	133	17.32	cps
Copper	63-2	683	717	813	738	9.15	cps
Dysprosium	156-1	27	20	7	18	57.27	cps
Dysprosium	156-2	13	3	7	8	65.47	cps
Erbium	164-1	63	97	60	73	27.65	cps
Erbium	164-2	43	63	40	49	25.81	cps
Gadolinium	160-1	43	63	53	53	18.75	cps
Gadolinium	160-2	440	403	450	431	5.70	cps
Holmium	165-1	14487632	14130334	14290673	14302880	1.25	cps
Holmium	165-2	10224783	10287157	10182044	10231328	0.52	cps
Indium	115-1	11924819	11978483	11766317	11889873	0.93	cps
Indium	115-2	4408010	4299609	4355809	4354476	1.24	cps
Iron	56-2	19813	19596	19466	19625	0.89	cps
Iron	57-2	923	860	883	889	3.60	cps
Iron	54-2	2640	2397	2377	2471	5.93	cps
Krypton	83-1	203	233	230	222	7.40	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165532BL Instrumnet Name : P7
Client Sample ID : PBS532 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:35:44 DataFile Name : 059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	733	800	783	772	4.49	cps
Lead	207-1	667	677	680	674	1.03	cps
Lead	208-1	3180	3070	2967	3072	3.47	cps
Lithium	6-1	1817727	1805888	1794713	1806109	0.64	cps
Magnesium	24-2	850	873	883	869	1.97	cps
Manganese	55-2	270	307	303	293	6.91	cps
Molybdenum	94-1	437	373	383	398	8.56	cps
Molybdenum	95-1	240	230	217	229	5.11	cps
Molybdenum	96-1	253	297	313	288	10.76	cps
Molybdenum	97-1	157	153	110	140	18.60	cps
Molybdenum	98-1	360	313	287	320	11.60	cps
Neodymium	150-1	3	3	7	4	43.40	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	343	363	313	340	7.40	cps
Phosphorus	31-2	177	123	153	151	17.69	cps
Potassium	39-2	48403	48410	48199	48338	0.25	cps
Rhodium	103-1	11012628	10951694	11023173	10995832	0.35	cps
Rhodium	103-2	6819899	6613553	6574848	6669433	1.98	cps
Scandium	45-1	6648718	6576350	6549891	6591653	0.78	cps
Scandium	45-2	555594	551789	549757	552380	0.54	cps
Selenium	82-1	145	111	107	121	17.14	cps
Selenium	77-2	10	0	0	3	173.21	cps
Selenium	78-2	387	423	400	403	4.60	cps
Silicon	28-1	641621	643335	644053	643003	0.19	cps
Silver	107-1	153	167	123	148	15.02	cps
Silver	109-1	100	113	147	120	20.03	cps
Sodium	23-2	26406	25234	25428	25689	2.45	cps
Strontium	86-1	387	390	377	384	1.80	cps
Strontium	88-1	403	367	303	358	14.14	cps
Sulfur	34-1	189877	191757	188882	190172	0.77	cps
Terbium	159-1	14907924	14662509	14729448	14766627	0.86	cps
Terbium	159-2	10217579	10118061	10192512	10176051	0.51	cps
Thallium	203-1	583	613	573	590	3.53	cps
Thallium	205-1	1363	1350	1380	1365	1.10	cps
Tin	118-1	1500	1410	1387	1432	4.18	cps
Titanium	47-1	90	100	70	87	17.63	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165532BL Instrumnet Name : P7
Client Sample ID : PBS532 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:35:44 DataFile Name : 059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	37	13	17	22	56.80	cps
Vanadium	51-2	13	13	20	16	24.76	cps
Yttrium	89-1	13925347	13864492	14035386	13941742	0.62	cps
Yttrium	89-2	3730599	3666923	3655283	3684268	1.10	cps
Zinc	66-2	267	273	273	271	1.42	cps
Zirconium	90-1	793	750	683	742	7.47	cps
Zirconium	91-1	140	157	170	156	9.66	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165532BS Instrumnet Name : P7
Client Sample ID : LCS532 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:39:00 DataFile Name : 060LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	11494	11331	11151	11325	1.52	cps
Antimony	121-1	49538	50512	50950	50333	1.44	cps
Arsenic	75-2	1450	1453	1383	1429	2.76	cps
Barium	135-1	61847	62101	61602	61850	0.40	cps
Barium	137-1	107082	106273	106263	106539	0.44	cps
Beryllium	9-1	3264	3367	3370	3334	1.82	cps
Bismuth	209-1	8503637	8398870	8554086	8485531	0.93	cps
Bismuth	209-2	7279080	7225843	7342869	7282598	0.80	cps
Bromine	81-1	14130	14497	14841	14489	2.45	cps
Bromine	81-2	163	133	170	156	12.55	cps
Cadmium	108-1	463	493	407	454	9.68	cps
Cadmium	106-1	3944	3834	3814	3864	1.81	cps
Cadmium	111-1	9331	8883	9130	9115	2.46	cps
Calcium	43-1	35822	36795	36110	36242	1.38	cps
Calcium	44-1	583871	584153	589145	585723	0.51	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21262	21095	21412	21256	0.75	cps
Cobalt	59-2	16486	16639	16653	16593	0.56	cps
Copper	63-2	24861	25432	25355	25216	1.23	cps
Dysprosium	156-1	27	10	10	16	61.87	cps
Dysprosium	156-2	17	10	17	14	26.66	cps
Erbium	164-1	53	50	97	67	39.06	cps
Erbium	164-2	30	17	50	32	52.06	cps
Gadolinium	160-1	47	23	50	40	36.33	cps
Gadolinium	160-2	490	497	477	488	2.09	cps
Holmium	165-1	14102159	14348644	14172120	14207641	0.89	cps
Holmium	165-2	10349207	10042427	10211096	10200910	1.51	cps
Indium	115-1	11845345	11870227	11872702	11862758	0.13	cps
Indium	115-2	4348867	4280818	4330533	4320073	0.82	cps
Iron	56-2	2007628	1976452	1964066	1982715	1.13	cps
Iron	57-2	51046	50545	50053	50548	0.98	cps
Iron	54-2	110750	109397	111784	110643	1.08	cps
Krypton	83-1	180	227	217	208	11.83	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165532BS Instrumnet Name : P7
Client Sample ID : LCS532 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:39:00 DataFile Name : 060LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	18179	18102	18499	18260	1.15	cps
Lead	207-1	16056	16694	16440	16397	1.96	cps
Lead	208-1	74752	74176	74443	74457	0.39	cps
Lithium	6-1	1774453	1744068	1783024	1767181	1.16	cps
Magnesium	24-2	444654	445457	443139	444417	0.26	cps
Manganese	55-2	8509	8703	8783	8665	1.62	cps
Molybdenum	94-1	51664	52731	52219	52205	1.02	cps
Molybdenum	95-1	62857	63229	62968	63018	0.30	cps
Molybdenum	96-1	69337	69993	70599	69976	0.90	cps
Molybdenum	97-1	38407	39443	39527	39126	1.59	cps
Molybdenum	98-1	100858	102137	100321	101106	0.92	cps
Neodymium	150-1	17	7	7	10	57.72	cps
Neodymium	150-2	13	13	3	10	57.75	cps
Nickel	60-2	4614	4517	4507	4546	1.30	cps
Phosphorus	31-2	803	820	753	792	4.38	cps
Potassium	39-2	653102	651213	652010	652108	0.15	cps
Rhodium	103-1	11038840	10901235	10959098	10966391	0.63	cps
Rhodium	103-2	6692505	6558356	6594306	6615056	1.05	cps
Scandium	45-1	6462486	6547327	6551727	6520513	0.77	cps
Scandium	45-2	562300	557757	559372	559810	0.41	cps
Selenium	82-1	2163	2027	2074	2088	3.33	cps
Selenium	77-2	283	160	193	212	30.06	cps
Selenium	78-2	1027	1147	1160	1111	6.61	cps
Silicon	28-1	796705	800363	807414	801494	0.68	cps
Silver	107-1	31805	32403	31751	31986	1.13	cps
Silver	109-1	30348	30569	30509	30475	0.37	cps
Sodium	23-2	744810	737525	741107	741147	0.49	cps
Strontium	86-1	8302	8469	8776	8516	2.82	cps
Strontium	88-1	70196	69915	70451	70187	0.38	cps
Sulfur	34-1	193870	195524	194849	194747	0.43	cps
Terbium	159-1	14786662	14352706	14705245	14614871	1.58	cps
Terbium	159-2	10169736	10125084	10176664	10157161	0.28	cps
Thallium	203-1	22686	22559	22936	22727	0.84	cps
Thallium	205-1	54532	53859	53374	53922	1.08	cps
Tin	118-1	106161	106084	105711	105985	0.23	cps
Titanium	47-1	3684	4057	4224	3988	6.94	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : PB165532BS Instrumnet Name : P7
Client Sample ID : LCS532 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:39:00 DataFile Name : 060LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	66605	66046	66709	66453	0.54	cps
Vanadium	51-2	45164	45448	45709	45440	0.60	cps
Yttrium	89-1	13638057	13837594	13769924	13748525	0.74	cps
Yttrium	89-2	3688621	3644801	3647344	3660255	0.67	cps
Zinc	66-2	10397	10367	10257	10340	0.71	cps
Zirconium	90-1	43180	44755	43615	43850	1.85	cps
Zirconium	91-1	9483	9660	9823	9655	1.76	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-01 Instrumnet Name : P7
Client Sample ID : ME28N9 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:43:10 DataFile Name : 061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4636384	4619675	4547527	4601195	1.03	cps
Antimony	121-1	3397	3420	3407	3408	0.34	cps
Arsenic	75-2	11301	11037	11194	11178	1.19	cps
Barium	135-1	453249	454330	452898	453492	0.16	cps
Barium	137-1	787762	793078	788384	789741	0.37	cps
Beryllium	9-1	2197	1910	2110	2072	7.10	cps
Bismuth	209-1	8958151	8860792	8717002	8845315	1.37	cps
Bismuth	209-2	7546723	7610740	7454067	7537177	1.05	cps
Bromine	81-1	20354	21673	22517	21515	5.07	cps
Bromine	81-2	1560	1643	1630	1611	2.78	cps
Cadmium	108-1	303	263	297	288	7.45	cps
Cadmium	106-1	3767	3600	3654	3674	2.32	cps
Cadmium	111-1	4832	4683	4887	4800	2.20	cps
Calcium	43-1	411459	414164	413259	412961	0.33	cps
Calcium	44-1	6369306	6422081	6355163	6382183	0.55	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	151085	149559	149304	149983	0.64	cps
Cobalt	59-2	144887	144064	143178	144043	0.59	cps
Copper	63-2	217087	215902	215475	216155	0.39	cps
Dysprosium	156-1	69085	70137	68905	69376	0.96	cps
Dysprosium	156-2	55449	55194	55101	55248	0.33	cps
Erbium	164-1	61635	62422	62516	62191	0.78	cps
Erbium	164-2	44367	43354	43715	43812	1.17	cps
Gadolinium	160-1	69193	69213	67183	68530	1.70	cps
Gadolinium	160-2	51561	50113	50568	50747	1.46	cps
Holmium	165-1	15292338	14753561	15041393	15029097	1.79	cps
Holmium	165-2	10774732	10732068	10477006	10661269	1.51	cps
Indium	115-1	12639083	12320748	12316520	12425450	1.49	cps
Indium	115-2	4465051	4478418	4400008	4447825	0.94	cps
Iron	56-2	174405504	173981617	171715237	173367453	0.83	cps
Iron	57-2	4265735	4253023	4274444	4264401	0.25	cps
Iron	54-2	9522364	9346487	9334134	9400995	1.12	cps
Krypton	83-1	290	277	257	274	6.11	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-01 Instrumnet Name : P7
Client Sample ID : ME28N9 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:43:10 DataFile Name : 061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	395220	391861	390893	392658	0.58	cps
Lead	207-1	325920	325849	324473	325414	0.25	cps
Lead	208-1	1527519	1525597	1509001	1520706	0.67	cps
Lithium	6-1	1878571	1827958	1825173	1843901	1.63	cps
Magnesium	24-2	2907312	2848949	2842651	2866304	1.24	cps
Manganese	55-2	5846406	5861202	5759735	5822447	0.94	cps
Molybdenum	94-1	62161	61646	62312	62039	0.56	cps
Molybdenum	95-1	69574	69979	69886	69813	0.30	cps
Molybdenum	96-1	80855	81053	81207	81038	0.22	cps
Molybdenum	97-1	42779	44274	43281	43444	1.75	cps
Molybdenum	98-1	113244	113668	114444	113785	0.53	cps
Neodymium	150-1	103389	104413	104207	104003	0.52	cps
Neodymium	150-2	61115	61165	61544	61275	0.38	cps
Nickel	60-2	200376	197380	197844	198533	0.81	cps
Phosphorus	31-2	9757	9353	9710	9606	2.30	cps
Potassium	39-2	2078025	2069239	2079955	2075740	0.28	cps
Rhodium	103-1	11542399	11322911	11453007	11439439	0.96	cps
Rhodium	103-2	6850796	6882588	6751632	6828339	1.00	cps
Scandium	45-1	6957208	6904095	6920982	6927428	0.39	cps
Scandium	45-2	585025	581711	584274	583670	0.30	cps
Selenium	82-1	357	336	382	358	6.42	cps
Selenium	77-2	217	157	190	188	16.01	cps
Selenium	78-2	607	627	573	602	4.47	cps
Silicon	28-1	42086841	42061363	42676614	42274939	0.82	cps
Silver	107-1	3424	2624	2497	2848	17.65	cps
Silver	109-1	3424	2544	2364	2777	20.43	cps
Sodium	23-2	284084	284399	280689	283057	0.73	cps
Strontium	86-1	215051	216014	217746	216270	0.63	cps
Strontium	88-1	1915528	1960382	1911750	1929220	1.40	cps
Sulfur	34-1	225567	220383	216502	220817	2.06	cps
Terbium	159-1	15522364	15642818	15210853	15458678	1.44	cps
Terbium	159-2	10654708	10518537	10420428	10531224	1.12	cps
Thallium	203-1	5641	5058	5194	5298	5.76	cps
Thallium	205-1	12866	12166	12022	12351	3.66	cps
Tin	118-1	8753	9116	8466	8778	3.71	cps
Titanium	47-1	188927	190951	191701	190527	0.75	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-01

Instrumnet Name :

P7

Client Sample ID :

ME28N9

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:43:10

DataFile Name :

061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	57885	57878	57541	57768	0.34	cps
Vanadium	51-2	177290	174435	174287	175337	0.97	cps
Yttrium	89-1	15611904	15449959	15534273	15532045	0.52	cps
Yttrium	89-2	4024784	4088688	4011563	4041679	1.02	cps
Zinc	66-2	132663	129895	130121	130893	1.17	cps
Zirconium	90-1	59935	60641	60601	60392	0.66	cps
Zirconium	91-1	13296	13209	13987	13497	3.16	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-02 Instrumnet Name : P7
Client Sample ID : ME28P0 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:46:17 DataFile Name : 062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6447360	6463171	6389048	6433193	0.61	cps
Antimony	121-1	2054	2144	2247	2148	4.50	cps
Arsenic	75-2	11231	11268	11024	11174	1.17	cps
Barium	135-1	468087	475306	472843	472079	0.78	cps
Barium	137-1	809118	824271	820349	817913	0.96	cps
Beryllium	9-1	2090	2370	2380	2280	7.22	cps
Bismuth	209-1	8649051	8601121	8715899	8655357	0.67	cps
Bismuth	209-2	7392214	7423578	7303909	7373234	0.84	cps
Bromine	81-1	18522	18318	18969	18603	1.79	cps
Bromine	81-2	1033	1077	1280	1130	11.66	cps
Cadmium	108-1	257	223	243	241	6.96	cps
Cadmium	106-1	3837	3661	3704	3734	2.47	cps
Cadmium	111-1	4440	4410	4196	4348	3.06	cps
Calcium	43-1	188384	190287	189636	189436	0.51	cps
Calcium	44-1	2866370	2935856	2886241	2896156	1.24	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	197863	196489	198623	197658	0.55	cps
Cobalt	59-2	199360	198332	199119	198937	0.27	cps
Copper	63-2	250448	249184	250005	249879	0.26	cps
Dysprosium	156-1	98270	97945	98566	98260	0.32	cps
Dysprosium	156-2	79001	79255	79647	79301	0.41	cps
Erbium	164-1	91094	92151	91527	91591	0.58	cps
Erbium	164-2	64414	65024	65271	64903	0.68	cps
Gadolinium	160-1	99383	100910	101138	100477	0.95	cps
Gadolinium	160-2	75693	74915	74560	75056	0.77	cps
Holmium	165-1	14791191	14808996	14567544	14722577	0.91	cps
Holmium	165-2	10483277	10514884	10421056	10473072	0.46	cps
Indium	115-1	12190008	11961767	12107505	12086427	0.96	cps
Indium	115-2	4393852	4391690	4332229	4372591	0.80	cps
Iron	56-2	245051356	241743956	240599276	242464863	0.95	cps
Iron	57-2	5971044	5937754	6010897	5973232	0.61	cps
Iron	54-2	13274955	13072987	13171187	13173043	0.77	cps
Krypton	83-1	340	397	320	352	11.29	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-02 Instrumnet Name : P7
Client Sample ID : ME28P0 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:46:17 DataFile Name : 062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	254943	255989	257598	256177	0.52	cps
Lead	207-1	211290	213931	213524	212915	0.67	cps
Lead	208-1	981466	993127	994449	989681	0.72	cps
Lithium	6-1	1807473	1779210	1846301	1810995	1.86	cps
Magnesium	24-2	3423707	3412945	3389158	3408603	0.52	cps
Manganese	55-2	3590726	3554510	3507506	3550914	1.18	cps
Molybdenum	94-1	70770	72602	72287	71886	1.36	cps
Molybdenum	95-1	70455	71972	71962	71463	1.22	cps
Molybdenum	96-1	84686	87006	84777	85490	1.54	cps
Molybdenum	97-1	44183	44654	44959	44599	0.88	cps
Molybdenum	98-1	115583	115805	114883	115424	0.42	cps
Neodymium	150-1	145124	147967	146764	146618	0.97	cps
Neodymium	150-2	88612	88878	87593	88361	0.77	cps
Nickel	60-2	135458	133373	132805	133879	1.04	cps
Phosphorus	31-2	6882	6845	6728	6818	1.18	cps
Potassium	39-2	2024024	2003481	2012929	2013478	0.51	cps
Rhodium	103-1	11184639	11059367	11080580	11108195	0.60	cps
Rhodium	103-2	6718121	6814653	6651345	6728040	1.22	cps
Scandium	45-1	6786139	6848193	6742668	6792333	0.78	cps
Scandium	45-2	578794	575603	572271	575556	0.57	cps
Selenium	82-1	309	243	374	309	21.22	cps
Selenium	77-2	283	283	310	292	5.27	cps
Selenium	78-2	673	613	677	654	5.45	cps
Silicon	28-1	45884941	46973091	46307194	46388409	1.18	cps
Silver	107-1	1337	1407	1500	1415	5.79	cps
Silver	109-1	1300	1463	1440	1401	6.31	cps
Sodium	23-2	257237	255824	256119	256393	0.29	cps
Strontium	86-1	175643	177934	177596	177058	0.70	cps
Strontium	88-1	1584152	1582743	1590380	1585758	0.26	cps
Sulfur	34-1	162554	159614	156011	159393	2.06	cps
Terbium	159-1	15307911	15313263	15180622	15267265	0.49	cps
Terbium	159-2	10587993	10521879	10320966	10476946	1.33	cps
Thallium	203-1	5448	5778	5978	5735	4.67	cps
Thallium	205-1	13634	13800	14371	13935	2.77	cps
Tin	118-1	8463	8643	8579	8561	1.07	cps
Titanium	47-1	233823	238409	235687	235973	0.98	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-02

Instrumnet Name :

P7

Client Sample ID :

ME28P0

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:46:17

DataFile Name :

062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	66682	67791	66806	67093	0.91	cps
Vanadium	51-2	221251	220611	219841	220568	0.32	cps
Yttrium	89-1	15634302	15545163	15701043	15626836	0.50	cps
Yttrium	89-2	4103474	4088346	4077962	4089927	0.31	cps
Zinc	66-2	123559	123119	122856	123178	0.29	cps
Zirconium	90-1	82715	83744	84223	83560	0.92	cps
Zirconium	91-1	18075	18712	18398	18395	1.73	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-03 Instrumnet Name : P7
Client Sample ID : ME28P1 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:49:28 DataFile Name : 063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3689348	3652933	3682375	3674885	0.53	cps
Antimony	121-1	4307	4534	4301	4381	3.03	cps
Arsenic	75-2	7319	7515	7689	7508	2.47	cps
Barium	135-1	492567	494493	491334	492798	0.32	cps
Barium	137-1	854696	864619	853955	857757	0.69	cps
Beryllium	9-1	1303	1363	1303	1323	2.62	cps
Bismuth	209-1	8266776	8359639	8339992	8322136	0.59	cps
Bismuth	209-2	6458421	7058556	7192398	6903125	5.66	cps
Bromine	81-1	15722	16746	16166	16211	3.17	cps
Bromine	81-2	513	597	520	543	8.52	cps
Cadmium	108-1	250	260	213	241	10.19	cps
Cadmium	106-1	4001	3647	3857	3835	4.64	cps
Cadmium	111-1	4546	4395	4588	4509	2.25	cps
Calcium	43-1	6137562	6108074	6139305	6128314	0.29	cps
Calcium	44-1	99079492	97615212	97562922	98085875	0.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	149034	146965	147089	147696	0.79	cps
Cobalt	59-2	133376	132405	131624	132468	0.66	cps
Copper	63-2	182157	179573	176022	179251	1.72	cps
Dysprosium	156-1	53368	54197	54070	53878	0.83	cps
Dysprosium	156-2	43133	43039	43400	43191	0.43	cps
Erbium	164-1	44170	44765	43976	44303	0.93	cps
Erbium	164-2	31769	31054	31937	31587	1.48	cps
Gadolinium	160-1	52719	52638	51280	52212	1.55	cps
Gadolinium	160-2	39385	39148	38917	39150	0.60	cps
Holmium	165-1	14440299	14569221	14696315	14568612	0.88	cps
Holmium	165-2	9277505	10221218	10368747	9955823	5.95	cps
Indium	115-1	11914040	11796173	11738191	11816135	0.76	cps
Indium	115-2	3774096	4193812	4292770	4086893	6.74	cps
Iron	56-2	164558708	162305144	162953231	163272361	0.71	cps
Iron	57-2	4139367	4117838	4118145	4125117	0.30	cps
Iron	54-2	8816557	8752952	8788809	8786106	0.36	cps
Krypton	83-1	220	350	263	278	23.83	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-03 Instrumnet Name : P7
Client Sample ID : ME28P1 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:49:28 DataFile Name : 063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	148033	148771	147263	148022	0.51	cps
Lead	207-1	117846	117449	116406	117234	0.63	cps
Lead	208-1	557839	559474	552563	556625	0.65	cps
Lithium	6-1	1851476	1770681	1784470	1802209	2.40	cps
Magnesium	24-2	27424364	27259985	27442295	27375548	0.37	cps
Manganese	55-2	2643286	2706742	2677320	2675782	1.19	cps
Molybdenum	94-1	69701	70026	69939	69889	0.24	cps
Molybdenum	95-1	44340	43692	43675	43902	0.86	cps
Molybdenum	96-1	56211	56154	55244	55870	0.97	cps
Molybdenum	97-1	27663	27600	26821	27361	1.71	cps
Molybdenum	98-1	70318	70144	70747	70403	0.44	cps
Neodymium	150-1	83519	83679	82747	83315	0.60	cps
Neodymium	150-2	50497	49807	49573	49959	0.96	cps
Nickel	60-2	91990	90920	91171	91360	0.61	cps
Phosphorus	31-2	9353	9156	9253	9254	1.06	cps
Potassium	39-2	1365638	1342745	1340606	1349663	1.03	cps
Rhodium	103-1	10622304	10750400	10626357	10666354	0.68	cps
Rhodium	103-2	5727793	6388205	6445945	6187314	6.45	cps
Scandium	45-1	6711431	6662143	6702069	6691881	0.39	cps
Scandium	45-2	502089	557324	563908	541107	6.27	cps
Selenium	82-1	439	250	313	334	28.84	cps
Selenium	77-2	170	213	153	179	17.31	cps
Selenium	78-2	507	553	510	523	4.98	cps
Silicon	28-1	37593056	38216654	38072779	37960830	0.86	cps
Silver	107-1	2010	1797	2010	1939	6.35	cps
Silver	109-1	1587	1743	1607	1646	5.18	cps
Sodium	23-2	254300	251816	254249	253455	0.56	cps
Strontium	86-1	1861551	1854924	1834602	1850359	0.76	cps
Strontium	88-1	15934908	16053574	15887552	15958678	0.54	cps
Sulfur	34-1	452924	460001	455781	456236	0.78	cps
Terbium	159-1	15109401	15067716	14930231	15035783	0.62	cps
Terbium	159-2	9168922	10284107	10285552	9912860	6.50	cps
Thallium	203-1	2947	2934	2970	2950	0.63	cps
Thallium	205-1	6939	6905	7019	6954	0.84	cps
Tin	118-1	6842	6842	6241	6642	5.22	cps
Titanium	47-1	333012	333338	332904	333085	0.07	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-03

Instrumnet Name :

P7

Client Sample ID :

ME28P1

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:49:28

DataFile Name :

063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	98178	99545	97799	98507	0.93	cps
Vanadium	51-2	183375	180630	180333	181446	0.92	cps
Yttrium	89-1	14702692	14791619	14555191	14683168	0.81	cps
Yttrium	89-2	3481912	3796393	3884245	3720850	5.69	cps
Zinc	66-2	94067	92460	92169	92899	1.10	cps
Zirconium	90-1	122627	121796	122751	122391	0.42	cps
Zirconium	91-1	27152	27509	27289	27317	0.66	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-04 Instrumnet Name : P7
Client Sample ID : ME28P2 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:52:35 DataFile Name : 064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4074369	4074342	4046698	4065136	0.39	cps
Antimony	121-1	2674	2644	2720	2679	1.44	cps
Arsenic	75-2	9640	9316	9393	9450	1.79	cps
Barium	135-1	652651	654862	657896	655136	0.40	cps
Barium	137-1	1140576	1139307	1134617	1138167	0.28	cps
Beryllium	9-1	1567	1520	1457	1515	3.65	cps
Bismuth	209-1	8486343	8454854	8473647	8471615	0.19	cps
Bismuth	209-2	7152522	7138537	7098807	7129955	0.39	cps
Bromine	81-1	16820	17330	17003	17051	1.52	cps
Bromine	81-2	707	803	743	751	6.50	cps
Cadmium	108-1	210	247	230	229	8.02	cps
Cadmium	106-1	3927	3761	3737	3808	2.72	cps
Cadmium	111-1	4726	4480	4435	4547	3.44	cps
Calcium	43-1	5546196	5545372	5479331	5523633	0.69	cps
Calcium	44-1	88726495	88883812	87863712	88491340	0.62	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	166032	165645	166049	165909	0.14	cps
Cobalt	59-2	137519	138102	136315	137312	0.66	cps
Copper	63-2	189935	192808	188983	190575	1.04	cps
Dysprosium	156-1	60282	60319	60573	60391	0.26	cps
Dysprosium	156-2	48507	48269	48470	48415	0.26	cps
Erbium	164-1	53027	53535	52973	53178	0.58	cps
Erbium	164-2	37621	37450	37260	37443	0.48	cps
Gadolinium	160-1	61109	60681	59867	60552	1.04	cps
Gadolinium	160-2	44584	45206	44718	44836	0.73	cps
Holmium	165-1	14518915	14574407	14487479	14526934	0.30	cps
Holmium	165-2	10314551	10129201	10196627	10213460	0.92	cps
Indium	115-1	11760009	11979575	11900117	11879900	0.94	cps
Indium	115-2	4206859	4219303	4233929	4220030	0.32	cps
Iron	56-2	173139917	171022251	170925577	171695915	0.73	cps
Iron	57-2	4335259	4340427	4313868	4329851	0.33	cps
Iron	54-2	9411903	9295067	9146360	9284443	1.43	cps
Krypton	83-1	300	317	307	308	2.72	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-04 Instrumnet Name : P7
Client Sample ID : ME28P2 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:52:35 DataFile Name : 064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	283414	280892	281483	281930	0.47	cps
Lead	207-1	234178	235464	234675	234772	0.28	cps
Lead	208-1	1090635	1095071	1089266	1091658	0.28	cps
Lithium	6-1	1824658	1776456	1831312	1810809	1.65	cps
Magnesium	24-2	22061083	22249080	22081005	22130389	0.47	cps
Manganese	55-2	3937890	3934160	3945087	3939046	0.14	cps
Molybdenum	94-1	40874	41756	40335	40988	1.75	cps
Molybdenum	95-1	36693	36379	37458	36843	1.51	cps
Molybdenum	96-1	44822	45052	44481	44785	0.64	cps
Molybdenum	97-1	23649	23185	23192	23342	1.14	cps
Molybdenum	98-1	59708	59132	59059	59300	0.60	cps
Neodymium	150-1	90927	92138	91179	91415	0.70	cps
Neodymium	150-2	55435	54659	54869	54988	0.73	cps
Nickel	60-2	84623	84543	84429	84532	0.12	cps
Phosphorus	31-2	9183	9503	9563	9416	2.17	cps
Potassium	39-2	887778	889478	886124	887793	0.19	cps
Rhodium	103-1	10698081	10717153	10683799	10699678	0.16	cps
Rhodium	103-2	6481877	6419961	6404188	6435342	0.64	cps
Scandium	45-1	6616514	6611679	6638796	6622330	0.22	cps
Scandium	45-2	551908	558357	556655	555640	0.60	cps
Selenium	82-1	321	314	291	309	5.12	cps
Selenium	77-2	170	147	137	151	11.32	cps
Selenium	78-2	653	610	560	608	7.69	cps
Silicon	28-1	45333503	45355571	44958024	45215699	0.49	cps
Silver	107-1	1517	1607	1647	1590	4.19	cps
Silver	109-1	1487	1700	1467	1551	8.34	cps
Sodium	23-2	193155	193098	194674	193642	0.46	cps
Strontium	86-1	2292002	2288898	2254064	2278321	0.92	cps
Strontium	88-1	19778731	19619553	19621701	19673328	0.46	cps
Sulfur	34-1	254031	255791	256427	255416	0.49	cps
Terbium	159-1	15116724	15019591	14842524	14992946	0.93	cps
Terbium	159-2	10221673	10141664	10150809	10171382	0.43	cps
Thallium	203-1	4271	4567	4541	4460	3.68	cps
Thallium	205-1	10307	10347	10074	10243	1.44	cps
Tin	118-1	7759	7939	7525	7741	2.68	cps
Titanium	47-1	153752	152859	151661	152757	0.69	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-04

Instrumnet Name :

P7

Client Sample ID :

ME28P2

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:52:35

DataFile Name :

064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	81122	82094	82363	81859	0.80	cps
Vanadium	51-2	175734	176718	174462	175638	0.64	cps
Yttrium	89-1	14907282	14825414	14702056	14811584	0.70	cps
Yttrium	89-2	3884832	3809549	3850092	3848158	0.98	cps
Zinc	66-2	126089	127485	127280	126951	0.59	cps
Zirconium	90-1	52657	52634	51958	52416	0.76	cps
Zirconium	91-1	11521	11575	11688	11595	0.73	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-05 Instrumnet Name : P7
Client Sample ID : ME28P3 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:55:46 DataFile Name : 065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3357014	3355203	3364150	3358789	0.14	cps
Antimony	121-1	21149	21313	21590	21350	1.04	cps
Arsenic	75-2	56611	57792	57220	57207	1.03	cps
Barium	135-1	2472039	2484998	2413196	2456744	1.56	cps
Barium	137-1	4254111	4253467	4204511	4237363	0.67	cps
Beryllium	9-1	1920	1940	1853	1905	2.38	cps
Bismuth	209-1	8654296	8662183	8476665	8597715	1.22	cps
Bismuth	209-2	7146404	7243450	7148797	7179550	0.77	cps
Bromine	81-1	15585	15618	16306	15836	2.57	cps
Bromine	81-2	563	493	557	538	7.18	cps
Cadmium	108-1	1360	1483	1453	1432	4.49	cps
Cadmium	106-1	5965	5501	5494	5653	4.77	cps
Cadmium	111-1	20741	20450	20830	20673	0.96	cps
Calcium	43-1	5624205	5604307	5564337	5597616	0.54	cps
Calcium	44-1	88619779	89748922	88536619	88968440	0.76	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	231006	230820	231939	231255	0.26	cps
Cobalt	59-2	80836	79814	80176	80275	0.65	cps
Copper	63-2	525879	527253	524518	525883	0.26	cps
Dysprosium	156-1	33680	34319	33921	33973	0.95	cps
Dysprosium	156-2	27607	28015	27888	27837	0.75	cps
Erbium	164-1	32314	32417	32294	32342	0.20	cps
Erbium	164-2	23093	22962	22732	22929	0.80	cps
Gadolinium	160-1	33533	34138	33614	33762	0.97	cps
Gadolinium	160-2	25346	25470	25657	25491	0.61	cps
Holmium	165-1	14581575	14543144	14497754	14540824	0.29	cps
Holmium	165-2	10170530	10151448	10142374	10154784	0.14	cps
Indium	115-1	12007725	11694524	11685849	11796033	1.55	cps
Indium	115-2	4332333	4248569	4288023	4289642	0.98	cps
Iron	56-2	245968963	246323310	249105750	247132674	0.70	cps
Iron	57-2	6201913	6144886	6209304	6185368	0.57	cps
Iron	54-2	13254661	13300604	13344676	13299980	0.34	cps
Krypton	83-1	257	267	327	283	13.36	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-05 Instrumnet Name : P7
Client Sample ID : ME28P3 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:55:46 DataFile Name : 065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	12995736	13113279	12778073	12962362	1.31	cps
Lead	207-1	10865298	10928955	10852958	10882404	0.37	cps
Lead	208-1	50574054	50974776	50077862	50542230	0.89	cps
Lithium	6-1	1826673	1765239	1813902	1801938	1.80	cps
Magnesium	24-2	9358884	9364142	9288393	9337140	0.45	cps
Manganese	55-2	2384433	2364174	2417275	2388627	1.12	cps
Molybdenum	94-1	108145	109818	108626	108863	0.79	cps
Molybdenum	95-1	39433	39584	40148	39722	0.95	cps
Molybdenum	96-1	59845	59711	59651	59736	0.17	cps
Molybdenum	97-1	24708	25419	24708	24945	1.65	cps
Molybdenum	98-1	64090	65201	64485	64592	0.87	cps
Neodymium	150-1	52297	52320	50473	51697	2.05	cps
Neodymium	150-2	30971	31208	31007	31062	0.41	cps
Nickel	60-2	75056	75495	75026	75193	0.35	cps
Phosphorus	31-2	7879	8066	7782	7909	1.82	cps
Potassium	39-2	989656	986923	991027	989202	0.21	cps
Rhodium	103-1	10665623	10640744	10675501	10660622	0.17	cps
Rhodium	103-2	6398012	6386485	6452033	6412177	0.55	cps
Scandium	45-1	6612113	6620606	6505859	6579526	0.97	cps
Scandium	45-2	560371	559642	562983	560999	0.31	cps
Selenium	82-1	1513	1411	1364	1429	5.33	cps
Selenium	77-2	260	183	250	231	18.03	cps
Selenium	78-2	867	910	883	887	2.47	cps
Silicon	28-1	45788449	45754384	45779266	45774033	0.04	cps
Silver	107-1	2360	2487	2280	2376	4.39	cps
Silver	109-1	1943	2177	2023	2048	5.79	cps
Sodium	23-2	372286	371585	374587	372819	0.42	cps
Strontium	86-1	2669691	2693478	2685107	2682759	0.45	cps
Strontium	88-1	22937464	23375777	23291315	23201519	1.00	cps
Sulfur	34-1	334532	332875	332749	333385	0.30	cps
Terbium	159-1	14925255	14908544	14856850	14896883	0.24	cps
Terbium	159-2	10303973	10039818	10118230	10154007	1.34	cps
Thallium	203-1	9400	9103	9433	9312	1.95	cps
Thallium	205-1	21944	22455	22495	22298	1.38	cps
Tin	118-1	70521	70625	69875	70340	0.58	cps
Titanium	47-1	757425	761914	757955	759098	0.32	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-05

Instrumnet Name :

P7

Client Sample ID :

ME28P3

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:55:46

DataFile Name :

065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	83322	84305	82537	83388	1.06	cps
Vanadium	51-2	188728	190847	188137	189237	0.75	cps
Yttrium	89-1	14447534	14486854	14545149	14493179	0.34	cps
Yttrium	89-2	3753226	3761589	3787069	3767294	0.47	cps
Zinc	66-2	1187955	1195646	1198165	1193922	0.45	cps
Zirconium	90-1	234117	235857	235985	235320	0.44	cps
Zirconium	91-1	52437	52212	52992	52547	0.76	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-06 Instrumnet Name : P7
Client Sample ID : ME28P4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:58:50 DataFile Name : 066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3750819	3711286	3722753	3728286	0.55	cps
Antimony	121-1	4984	4881	4604	4823	4.08	cps
Arsenic	75-2	6875	6945	6822	6881	0.90	cps
Barium	135-1	469782	465220	465855	466952	0.53	cps
Barium	137-1	808028	813628	808505	810054	0.38	cps
Beryllium	9-1	1883	1807	1933	1875	3.40	cps
Bismuth	209-1	8243966	8340180	8334207	8306118	0.65	cps
Bismuth	209-2	7040158	7027359	7034934	7034151	0.09	cps
Bromine	81-1	15935	15441	16055	15811	2.06	cps
Bromine	81-2	527	480	443	483	8.64	cps
Cadmium	108-1	343	293	390	342	14.13	cps
Cadmium	106-1	4147	3904	3977	4009	3.11	cps
Cadmium	111-1	4290	4101	4218	4203	2.27	cps
Calcium	43-1	8182998	8128277	8138286	8149854	0.36	cps
Calcium	44-1	130552478	130572741	130498811	130541344	0.03	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	151471	150902	152835	151736	0.65	cps
Cobalt	59-2	93770	94830	95364	94655	0.86	cps
Copper	63-2	207991	206342	205967	206766	0.52	cps
Dysprosium	156-1	58186	58501	58404	58364	0.28	cps
Dysprosium	156-2	46932	47142	46453	46842	0.75	cps
Erbium	164-1	51431	50936	50042	50803	1.39	cps
Erbium	164-2	35238	35231	35699	35389	0.76	cps
Gadolinium	160-1	57856	58619	57470	57982	1.01	cps
Gadolinium	160-2	43073	42956	42357	42795	0.90	cps
Holmium	165-1	14556945	14763626	14566667	14629079	0.80	cps
Holmium	165-2	10294515	10240910	10182883	10239436	0.55	cps
Indium	115-1	11743387	11670681	11629601	11681223	0.49	cps
Indium	115-2	4123918	4141892	4143387	4136399	0.26	cps
Iron	56-2	144860691	143319561	144903148	144361133	0.63	cps
Iron	57-2	3670009	3672708	3670668	3671128	0.04	cps
Iron	54-2	7791840	7792798	7808316	7797651	0.12	cps
Krypton	83-1	243	390	283	306	24.81	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-06 Instrumnet Name : P7
Client Sample ID : ME28P4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 14:58:50 DataFile Name : 066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	302370	305651	304333	304118	0.54	cps
Lead	207-1	253019	250285	248551	250618	0.90	cps
Lead	208-1	1174637	1168448	1161714	1168266	0.55	cps
Lithium	6-1	1763824	1750571	1805234	1773210	1.61	cps
Magnesium	24-2	25456330	25232217	25254615	25314388	0.49	cps
Manganese	55-2	4019748	3999195	4000309	4006417	0.29	cps
Molybdenum	94-1	104979	105258	105023	105087	0.14	cps
Molybdenum	95-1	40837	39928	39426	40064	1.78	cps
Molybdenum	96-1	58998	59002	57566	58522	1.41	cps
Molybdenum	97-1	25382	25432	25085	25300	0.74	cps
Molybdenum	98-1	65161	65707	63936	64935	1.40	cps
Neodymium	150-1	89257	89864	89357	89492	0.36	cps
Neodymium	150-2	53140	53032	52059	52744	1.13	cps
Nickel	60-2	68271	68820	68502	68531	0.40	cps
Phosphorus	31-2	9066	9373	9096	9178	1.84	cps
Potassium	39-2	1367526	1338486	1323724	1343245	1.66	cps
Rhodium	103-1	10548369	10466856	10418905	10478043	0.62	cps
Rhodium	103-2	6254371	6200368	6175682	6210140	0.65	cps
Scandium	45-1	6546402	6541553	6543375	6543777	0.04	cps
Scandium	45-2	545597	539751	536930	540759	0.82	cps
Selenium	82-1	476	312	296	362	27.62	cps
Selenium	77-2	163	193	147	168	14.10	cps
Selenium	78-2	560	537	580	559	3.88	cps
Silicon	28-1	134580868	136095378	135012785	135229677	0.58	cps
Silver	107-1	1563	1760	1653	1659	5.94	cps
Silver	109-1	1383	1333	1330	1349	2.22	cps
Sodium	23-2	577259	575088	571882	574743	0.47	cps
Strontium	86-1	4413553	4469565	4484981	4456033	0.84	cps
Strontium	88-1	38389418	38642338	38881111	38637622	0.64	cps
Sulfur	34-1	338271	337426	338217	337971	0.14	cps
Terbium	159-1	15130938	14968724	14946623	15015428	0.67	cps
Terbium	159-2	10076339	10082967	10017116	10058808	0.36	cps
Thallium	203-1	4044	4177	4297	4173	3.04	cps
Thallium	205-1	10324	9900	10084	10103	2.10	cps
Tin	118-1	77651	77175	77276	77367	0.32	cps
Titanium	47-1	476936	479377	476970	477761	0.29	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-06

Instrumnet Name :

P7

Client Sample ID :

ME28P4

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 14:58:50

DataFile Name :

066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	89321	89075	89035	89143	0.17	cps
Vanadium	51-2	125042	123792	121840	123558	1.31	cps
Yttrium	89-1	14649124	14689504	14510997	14616541	0.64	cps
Yttrium	89-2	3771680	3737038	3704287	3737668	0.90	cps
Zinc	66-2	162843	162567	159781	161730	1.05	cps
Zirconium	90-1	223274	222602	223109	222995	0.16	cps
Zirconium	91-1	48945	48701	49329	48991	0.65	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-07 Instrumnet Name : P7
Client Sample ID : ME28P5 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:02:02 DataFile Name : 067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6035239	5991716	5921134	5982696	0.96	cps
Antimony	121-1	2517	2430	2504	2484	1.88	cps
Arsenic	75-2	13963	13750	13843	13852	0.77	cps
Barium	135-1	542055	553213	550937	548735	1.07	cps
Barium	137-1	937714	957506	960693	951971	1.31	cps
Beryllium	9-1	2610	2784	2610	2668	3.75	cps
Bismuth	209-1	8999837	8629404	8819522	8816254	2.10	cps
Bismuth	209-2	7556296	7410425	7345574	7437432	1.45	cps
Bromine	81-1	17667	19022	19236	18642	4.56	cps
Bromine	81-2	1163	1057	1150	1123	5.17	cps
Cadmium	108-1	223	300	290	271	15.37	cps
Cadmium	106-1	4054	3811	3767	3877	3.99	cps
Cadmium	111-1	4992	4801	4648	4813	3.58	cps
Calcium	43-1	361048	368428	365839	365105	1.03	cps
Calcium	44-1	5495000	5643183	5567700	5568628	1.33	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	207750	206088	206679	206839	0.41	cps
Cobalt	59-2	238062	239037	238153	238417	0.23	cps
Copper	63-2	244347	243954	243358	243886	0.20	cps
Dysprosium	156-1	77730	78983	77787	78167	0.91	cps
Dysprosium	156-2	62404	63091	63067	62854	0.62	cps
Erbium	164-1	66973	69411	67240	67875	1.97	cps
Erbium	164-2	48042	48143	48163	48116	0.13	cps
Gadolinium	160-1	74611	75978	76487	75692	1.28	cps
Gadolinium	160-2	56831	56929	55844	56535	1.06	cps
Holmium	165-1	15301508	14739912	14969183	15003534	1.88	cps
Holmium	165-2	10468847	10593271	10345871	10469330	1.18	cps
Indium	115-1	12622401	12065353	12121006	12269587	2.50	cps
Indium	115-2	4369453	4377769	4368633	4371952	0.12	cps
Iron	56-2	262151836	261894116	261909303	261985085	0.06	cps
Iron	57-2	6326732	6353167	6390659	6356853	0.51	cps
Iron	54-2	14087573	14082202	14132846	14100874	0.20	cps
Krypton	83-1	253	297	310	287	10.34	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-07 Instrumnet Name : P7
Client Sample ID : ME28P5 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:02:02 DataFile Name : 067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	412951	415694	415086	414577	0.35	cps
Lead	207-1	337460	341104	342356	340307	0.75	cps
Lead	208-1	1584104	1609743	1603012	1598953	0.83	cps
Lithium	6-1	1859865	1802673	1798816	1820451	1.88	cps
Magnesium	24-2	3431853	3435432	3390264	3419183	0.73	cps
Manganese	55-2	8737277	8721135	8655342	8704585	0.50	cps
Molybdenum	94-1	55535	57502	57432	56823	1.96	cps
Molybdenum	95-1	48165	49346	50172	49228	2.05	cps
Molybdenum	96-1	58650	60203	60287	59713	1.54	cps
Molybdenum	97-1	30275	30859	30732	30622	1.00	cps
Molybdenum	98-1	78275	79243	79062	78860	0.65	cps
Neodymium	150-1	115915	118462	118402	117593	1.24	cps
Neodymium	150-2	71744	70555	70830	71043	0.88	cps
Nickel	60-2	98504	98541	97954	98333	0.33	cps
Phosphorus	31-2	7509	7372	7258	7380	1.70	cps
Potassium	39-2	1021947	1018142	1014834	1018308	0.35	cps
Rhodium	103-1	11412373	11085949	11194938	11231086	1.48	cps
Rhodium	103-2	6669942	6654959	6580796	6635232	0.72	cps
Scandium	45-1	6903436	6681062	6712117	6765539	1.78	cps
Scandium	45-2	570710	563242	563070	565674	0.77	cps
Selenium	82-1	405	423	346	391	10.36	cps
Selenium	77-2	197	210	253	220	13.47	cps
Selenium	78-2	630	637	583	617	4.71	cps
Silicon	28-1	43661319	44372224	44169113	44067552	0.83	cps
Silver	107-1	2137	2144	2114	2131	0.74	cps
Silver	109-1	1987	1917	2114	2006	4.97	cps
Sodium	23-2	284801	285260	286494	285518	0.31	cps
Strontium	86-1	722396	740007	736540	732981	1.27	cps
Strontium	88-1	6606448	6618643	6577846	6600979	0.32	cps
Sulfur	34-1	202966	202820	192638	199475	2.97	cps
Terbium	159-1	15865532	15053821	15279971	15399775	2.72	cps
Terbium	159-2	10397707	10366970	10366688	10377122	0.17	cps
Thallium	203-1	5191	5064	4821	5025	3.74	cps
Thallium	205-1	11862	12252	11795	11970	2.06	cps
Tin	118-1	9046	9663	9547	9419	3.48	cps
Titanium	47-1	177626	182644	183059	181110	1.67	cps

LB Number :LB134068

Operator :Jaswal

Lab Sample ID :P5154-07

Instrumnet Name :P7

Client Sample ID :ME28P5

Dilution Factor :1

Date & Time Acquired :2024-12-23 15:02:02

DataFile Name :067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	98437	100169	98262	98956	1.07	cps
Vanadium	51-2	255837	259220	255692	256916	0.78	cps
Yttrium	89-1	15675775	15047691	15170299	15297922	2.18	cps
Yttrium	89-2	3921397	3993028	3935254	3949893	0.96	cps
Zinc	66-2	128587	128413	127639	128213	0.39	cps
Zirconium	90-1	76994	78883	79095	78324	1.48	cps
Zirconium	91-1	16873	17477	16987	17112	1.88	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-08 Instrumnet Name : P7
Client Sample ID : ME28P6 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:05:12 DataFile Name : 068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3592265	3638498	3580050	3603604	0.86	cps
Antimony	121-1	3364	3357	3287	3336	1.27	cps
Arsenic	75-2	8689	9103	8599	8797	3.05	cps
Barium	135-1	447969	450845	446671	448495	0.48	cps
Barium	137-1	779168	782544	773472	778395	0.59	cps
Beryllium	9-1	1167	1187	1190	1181	1.07	cps
Bismuth	209-1	8411503	8524928	8604492	8513641	1.14	cps
Bismuth	209-2	7033915	7123947	7085404	7081089	0.64	cps
Bromine	81-1	15391	15618	15845	15618	1.45	cps
Bromine	81-2	613	497	550	553	10.56	cps
Cadmium	108-1	220	193	187	200	8.82	cps
Cadmium	106-1	3837	3804	3721	3787	1.59	cps
Cadmium	111-1	3625	3634	3544	3601	1.38	cps
Calcium	43-1	7814945	7897601	7855888	7856145	0.53	cps
Calcium	44-1	125199278	125223301	124495341	124972640	0.33	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	131107	129332	130851	130430	0.74	cps
Cobalt	59-2	127869	126441	127247	127185	0.56	cps
Copper	63-2	218687	218424	219439	218850	0.24	cps
Dysprosium	156-1	67739	69169	67471	68126	1.34	cps
Dysprosium	156-2	54408	54284	53274	53989	1.15	cps
Erbium	164-1	59965	60199	59419	59861	0.67	cps
Erbium	164-2	42083	42187	41200	41824	1.30	cps
Gadolinium	160-1	67655	69360	69049	68688	1.32	cps
Gadolinium	160-2	50109	50638	50584	50444	0.58	cps
Holmium	165-1	14631310	14611941	14505684	14582979	0.46	cps
Holmium	165-2	10192357	10245447	10200058	10212621	0.28	cps
Indium	115-1	11815699	11636727	11702290	11718239	0.77	cps
Indium	115-2	4223073	4113941	4165468	4167494	1.31	cps
Iron	56-2	173979124	174498617	172361391	173613044	0.64	cps
Iron	57-2	4367890	4354611	4360821	4361107	0.15	cps
Iron	54-2	9429200	9443348	9327653	9400067	0.67	cps
Krypton	83-1	270	340	330	313	12.08	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-08 Instrumnet Name : P7
Client Sample ID : ME28P6 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:05:12 DataFile Name : 068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	179768	183229	182303	181767	0.99	cps
Lead	207-1	145934	150075	148649	148219	1.42	cps
Lead	208-1	691896	698692	700383	696990	0.64	cps
Lithium	6-1	1766685	1817898	1837258	1807280	2.02	cps
Magnesium	24-2	13850868	13888189	13785998	13841685	0.37	cps
Manganese	55-2	3786556	3781681	3753575	3773937	0.47	cps
Molybdenum	94-1	79739	79370	79363	79491	0.27	cps
Molybdenum	95-1	64240	65358	65676	65092	1.16	cps
Molybdenum	96-1	79113	79759	78469	79113	0.82	cps
Molybdenum	97-1	40449	41201	40118	40590	1.37	cps
Molybdenum	98-1	106091	106347	106723	106387	0.30	cps
Neodymium	150-1	104795	105467	104657	104973	0.41	cps
Neodymium	150-2	61952	62196	61266	61805	0.78	cps
Nickel	60-2	87017	86152	85613	86261	0.82	cps
Phosphorus	31-2	12555	12926	12539	12673	1.73	cps
Potassium	39-2	1144515	1141149	1131883	1139182	0.57	cps
Rhodium	103-1	10604584	10628515	10565319	10599473	0.30	cps
Rhodium	103-2	6388503	6230914	6255512	6291643	1.35	cps
Scandium	45-1	6534223	6587014	6545603	6555614	0.42	cps
Scandium	45-2	547722	538883	541228	542611	0.84	cps
Selenium	82-1	345	241	291	292	17.67	cps
Selenium	77-2	240	207	203	217	9.36	cps
Selenium	78-2	513	493	603	537	10.92	cps
Silicon	28-1	34631468	34316194	33832055	34259906	1.18	cps
Silver	107-1	1140	1140	1267	1182	6.19	cps
Silver	109-1	1030	1063	1067	1053	1.92	cps
Sodium	23-2	323554	324316	323132	323667	0.19	cps
Strontium	86-1	1502947	1522949	1505072	1510323	0.73	cps
Strontium	88-1	12825041	13136418	13130530	13030663	1.37	cps
Sulfur	34-1	208684	208401	208512	208532	0.07	cps
Terbium	159-1	14953853	15143575	14918627	15005352	0.81	cps
Terbium	159-2	10077785	10005775	10077466	10053675	0.41	cps
Thallium	203-1	5038	5221	4921	5060	2.99	cps
Thallium	205-1	11638	11829	11765	11744	0.82	cps
Tin	118-1	7119	7192	6905	7072	2.11	cps
Titanium	47-1	365764	367686	364509	365986	0.44	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-08 Instrumnet Name : P7
Client Sample ID : ME28P6 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:05:12 DataFile Name : 068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	77296	77078	76796	77057	0.32	cps
Vanadium	51-2	144954	143985	142801	143914	0.75	cps
Yttrium	89-1	14649270	14744458	14726737	14706822	0.34	cps
Yttrium	89-2	3753340	3732001	3774581	3753307	0.57	cps
Zinc	66-2	102374	102206	102720	102433	0.26	cps
Zirconium	90-1	116101	117293	116276	116557	0.55	cps
Zirconium	91-1	25512	25302	25779	25531	0.94	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-09 Instrumnet Name : P7
Client Sample ID : ME28P7 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:08:25 DataFile Name : 069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	457368	455307	451959	454878	0.60	cps
Antimony	121-1	2257	2197	2290	2248	2.10	cps
Arsenic	75-2	1660	1910	1760	1777	7.08	cps
Barium	135-1	149034	149589	150849	149824	0.62	cps
Barium	137-1	258272	254869	260675	257939	1.13	cps
Beryllium	9-1	217	290	227	244	16.27	cps
Bismuth	209-1	8130749	8136389	8121425	8129521	0.09	cps
Bismuth	209-2	6880593	6803422	6910062	6864692	0.80	cps
Bromine	81-1	17120	17851	17787	17586	2.30	cps
Bromine	81-2	687	757	663	702	6.92	cps
Cadmium	108-1	90	87	110	96	13.21	cps
Cadmium	106-1	3971	3704	3957	3877	3.88	cps
Cadmium	111-1	3136	2995	3150	3094	2.77	cps
Calcium	43-1	16033145	16114234	16210707	16119362	0.55	cps
Calcium	44-1	254458956	257733849	262356389	258183065	1.54	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	53264	53491	53505	53420	0.25	cps
Cobalt	59-2	18084	18585	18405	18358	1.38	cps
Copper	63-2	33654	33815	34252	33907	0.91	cps
Dysprosium	156-1	12723	12879	12396	12666	1.95	cps
Dysprosium	156-2	9964	10027	9860	9950	0.85	cps
Erbium	164-1	13480	13567	13363	13470	0.76	cps
Erbium	164-2	9507	9700	9613	9607	1.01	cps
Gadolinium	160-1	12623	12989	13133	12915	2.04	cps
Gadolinium	160-2	10094	10130	9847	10024	1.54	cps
Holmium	165-1	14981059	14705312	14649648	14778673	1.20	cps
Holmium	165-2	10343660	10349417	10425345	10372807	0.44	cps
Indium	115-1	11950886	11881928	11912802	11915205	0.29	cps
Indium	115-2	4289789	4293673	4275306	4286256	0.23	cps
Iron	56-2	24915450	24666485	24663298	24748411	0.58	cps
Iron	57-2	872284	880521	886870	879892	0.83	cps
Iron	54-2	1361178	1346386	1346315	1351293	0.63	cps
Krypton	83-1	343	287	337	322	9.61	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-09 Instrumnet Name : P7
Client Sample ID : ME28P7 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:08:25 DataFile Name : 069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	50300	50012	49677	49996	0.62	cps
Lead	207-1	36044	36048	35770	35954	0.44	cps
Lead	208-1	172851	173219	174386	173485	0.46	cps
Lithium	6-1	1752435	1691676	1762024	1735379	2.20	cps
Magnesium	24-2	121644165	121854145	121269432	121589247	0.24	cps
Manganese	55-2	814677	819733	814618	816343	0.36	cps
Molybdenum	94-1	31561	31564	32058	31728	0.90	cps
Molybdenum	95-1	12842	13096	13536	13158	2.67	cps
Molybdenum	96-1	17934	18642	18859	18478	2.62	cps
Molybdenum	97-1	8032	7882	8609	8175	4.70	cps
Molybdenum	98-1	21676	21449	21296	21474	0.89	cps
Neodymium	150-1	16854	16834	16810	16832	0.13	cps
Neodymium	150-2	10534	10117	10244	10298	2.08	cps
Nickel	60-2	22490	22600	22220	22437	0.87	cps
Phosphorus	31-2	1967	1927	2013	1969	2.20	cps
Potassium	39-2	315851	319652	319083	318195	0.64	cps
Rhodium	103-1	10661798	10650201	10751997	10687999	0.52	cps
Rhodium	103-2	6525249	6438436	6468771	6477485	0.68	cps
Scandium	45-1	6787456	6730840	6820726	6779674	0.67	cps
Scandium	45-2	600740	594009	603947	599565	0.85	cps
Selenium	82-1	332	352	314	333	5.66	cps
Selenium	77-2	33	43	40	39	13.09	cps
Selenium	78-2	547	540	550	546	0.93	cps
Silicon	28-1	12269399	12399266	12467806	12378824	0.81	cps
Silver	107-1	653	850	943	816	18.15	cps
Silver	109-1	493	687	850	677	26.39	cps
Sodium	23-2	461347	456617	459857	459274	0.53	cps
Strontium	86-1	1889825	1896483	1879690	1888666	0.45	cps
Strontium	88-1	16347321	16476052	16401270	16408214	0.39	cps
Sulfur	34-1	319371	325346	330585	325101	1.73	cps
Terbium	159-1	15488584	15105533	15314446	15302854	1.25	cps
Terbium	159-2	10275281	10360341	10207327	10280983	0.75	cps
Thallium	203-1	1547	1630	1727	1635	5.51	cps
Thallium	205-1	3397	3644	3754	3598	5.08	cps
Tin	118-1	3557	3357	3524	3479	3.08	cps
Titanium	47-1	64222	65273	65725	65074	1.19	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-09

Instrumnet Name :

P7

Client Sample ID :

ME28P7

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:08:25

DataFile Name :

069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	142948	143746	143511	143402	0.29	cps
Vanadium	51-2	51999	51507	51808	51772	0.48	cps
Yttrium	89-1	14681728	14541123	14771063	14664638	0.79	cps
Yttrium	89-2	3921202	3813869	3913719	3882930	1.54	cps
Zinc	66-2	21706	21682	21309	21566	1.03	cps
Zirconium	90-1	65652	64715	66480	65616	1.35	cps
Zirconium	91-1	14467	14954	14254	14558	2.47	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-10 Instrumnet Name : P7
Client Sample ID : ME28P8 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:11:38 DataFile Name : 070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3900290	3841651	3827870	3856604	1.00	cps
Antimony	121-1	38832	38769	38592	38731	0.32	cps
Arsenic	75-2	16870	16493	16346	16569	1.63	cps
Barium	135-1	935571	936630	925272	932491	0.67	cps
Barium	137-1	1703433	1690648	1681037	1691706	0.66	cps
Beryllium	9-1	2427	2190	2144	2254	6.74	cps
Bismuth	209-1	8849887	8789886	8821437	8820403	0.34	cps
Bismuth	209-2	7255375	7262618	7244657	7254217	0.12	cps
Bromine	81-1	18438	19193	19216	18949	2.33	cps
Bromine	81-2	1303	1220	1317	1280	4.09	cps
Cadmium	108-1	697	653	707	686	4.13	cps
Cadmium	106-1	4567	4647	4407	4541	2.69	cps
Cadmium	111-1	10021	9688	9852	9854	1.69	cps
Calcium	43-1	2488876	2451661	2404870	2448469	1.72	cps
Calcium	44-1	39693906	38995449	38403164	39030839	1.66	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1933790	1905138	1930251	1923060	0.81	cps
Cobalt	59-2	121073	120058	120475	120535	0.42	cps
Copper	63-2	3587236	3559288	3546394	3564306	0.59	cps
Dysprosium	156-1	62843	61822	61537	62067	1.11	cps
Dysprosium	156-2	49651	49728	49346	49575	0.41	cps
Erbium	164-1	58769	57722	58020	58170	0.93	cps
Erbium	164-2	41257	40626	40305	40729	1.19	cps
Gadolinium	160-1	62221	61970	61253	61814	0.81	cps
Gadolinium	160-2	45547	45069	44072	44896	1.68	cps
Holmium	165-1	14959251	14720791	14673210	14784417	1.04	cps
Holmium	165-2	10180462	10234009	10183016	10199162	0.30	cps
Indium	115-1	11896996	11817529	11755999	11823508	0.60	cps
Indium	115-2	4140105	4106691	4059594	4102130	0.99	cps
Iron	56-2	333434035	328358642	329060908	330284528	0.83	cps
Iron	57-2	8145865	7992449	8078503	8072272	0.95	cps
Iron	54-2	17897196	17710366	17821116	17809559	0.53	cps
Krypton	83-1	357	377	273	336	16.33	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-10 Instrumnet Name : P7
Client Sample ID : ME28P8 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:11:38 DataFile Name : 070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3786737	3824567	3772846	3794717	0.71	cps
Lead	207-1	3399174	3416888	3415062	3410375	0.29	cps
Lead	208-1	15247227	15506815	15436849	15396963	0.87	cps
Lithium	6-1	1901885	1889317	1834087	1875096	1.92	cps
Magnesium	24-2	6155904	6136449	6059139	6117164	0.84	cps
Manganese	55-2	4099099	4061799	4107224	4089374	0.59	cps
Molybdenum	94-1	193666	192528	191913	192702	0.46	cps
Molybdenum	95-1	296488	296655	296354	296499	0.05	cps
Molybdenum	96-1	329766	327525	321976	326422	1.23	cps
Molybdenum	97-1	187611	186834	184563	186336	0.85	cps
Molybdenum	98-1	484842	482634	483608	483695	0.23	cps
Neodymium	150-1	94248	97437	95688	95791	1.67	cps
Neodymium	150-2	57025	57155	56593	56924	0.52	cps
Nickel	60-2	461278	457445	457908	458877	0.46	cps
Phosphorus	31-2	14670	13863	14223	14252	2.84	cps
Potassium	39-2	2026237	2020244	2025306	2023929	0.16	cps
Rhodium	103-1	10952027	10772981	10639516	10788175	1.45	cps
Rhodium	103-2	6367045	6291532	6226282	6294953	1.12	cps
Scandium	45-1	6741855	6506364	6412596	6553605	2.59	cps
Scandium	45-2	528604	523894	525869	526122	0.45	cps
Selenium	82-1	212	160	309	227	33.25	cps
Selenium	77-2	207	187	150	181	15.87	cps
Selenium	78-2	483	517	580	527	9.32	cps
Silicon	28-1	57828267	57360344	56192271	57126961	1.47	cps
Silver	107-1	15368	15652	15095	15372	1.81	cps
Silver	109-1	15018	14864	14701	14861	1.07	cps
Sodium	23-2	562502	552679	555801	556994	0.90	cps
Strontium	86-1	1297655	1287658	1299912	1295075	0.50	cps
Strontium	88-1	11744848	11584764	11569885	11633166	0.83	cps
Sulfur	34-1	319877	314883	309981	314914	1.57	cps
Terbium	159-1	15182969	15208994	15124666	15172210	0.28	cps
Terbium	159-2	10235981	10043329	9983167	10087492	1.31	cps
Thallium	203-1	2657	2934	2927	2839	5.56	cps
Thallium	205-1	6862	6945	6892	6900	0.61	cps
Tin	118-1	804777	810036	805414	806743	0.36	cps
Titanium	47-1	651092	643782	630686	641854	1.61	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-10

Instrumnet Name :

P7

Client Sample ID :

ME28P8

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:11:38

DataFile Name :

070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	68049	68937	68032	68340	0.76	cps
Vanadium	51-2	208710	207574	206353	207546	0.57	cps
Yttrium	89-1	15087044	14780763	14421678	14763162	2.26	cps
Yttrium	89-2	3716481	3763952	3736369	3738934	0.64	cps
Zinc	66-2	955554	953847	952412	953938	0.16	cps
Zirconium	90-1	62569	62114	63621	62768	1.23	cps
Zirconium	91-1	13903	14104	13920	13976	0.80	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-11 Instrumnet Name : P7
Client Sample ID : ME28P9 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:14:41 DataFile Name : 071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6929478	7004663	7032172	6988771	0.76	cps
Antimony	121-1	54259	53803	53743	53935	0.52	cps
Arsenic	75-2	19172	19767	19943	19627	2.06	cps
Barium	135-1	1176916	1170019	1163888	1170275	0.56	cps
Barium	137-1	2172307	2118468	2086530	2125768	2.04	cps
Beryllium	9-1	2427	2270	2327	2341	3.39	cps
Bismuth	209-1	5331472	8521140	8609092	7487235	24.94	cps
Bismuth	209-2	7246426	7237748	7164864	7216346	0.62	cps
Bromine	81-1	17541	17991	18071	17868	1.60	cps
Bromine	81-2	853	837	820	837	1.99	cps
Cadmium	108-1	783	623	753	720	11.81	cps
Cadmium	106-1	3347	4741	4581	4223	18.06	cps
Cadmium	111-1	8476	9534	9434	9148	6.38	cps
Calcium	43-1	1995442	1985838	1969912	1983731	0.65	cps
Calcium	44-1	31560592	31393105	31166657	31373451	0.63	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2455544	2463914	2486436	2468631	0.65	cps
Cobalt	59-2	330298	329837	330328	330155	0.08	cps
Copper	63-2	4002937	3956415	4009105	3989486	0.72	cps
Dysprosium	156-1	54545	53729	53401	53892	1.09	cps
Dysprosium	156-2	44697	43918	44266	44294	0.88	cps
Erbium	164-1	51919	52311	52033	52088	0.39	cps
Erbium	164-2	36859	36103	35749	36237	1.56	cps
Gadolinium	160-1	51344	51926	50855	51375	1.04	cps
Gadolinium	160-2	38840	37918	37884	38214	1.42	cps
Holmium	165-1	9243153	14732039	15053403	13009531	25.10	cps
Holmium	165-2	10461908	10389678	10317811	10389799	0.69	cps
Indium	115-1	7505432	11948100	12039854	10497795	24.69	cps
Indium	115-2	4286272	4310064	4325430	4307255	0.46	cps
Iron	56-2	1584397896	1590140830	1593818216	1589452314	0.30	cps
Iron	57-2	39008992	39379550	39660469	39349670	0.83	cps
Iron	54-2	85565909	85706302	86208469	85826893	0.39	cps
Krypton	83-1	333	283	270	296	11.30	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-11 Instrumnet Name : P7
Client Sample ID : ME28P9 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:14:41 DataFile Name : 071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3040373	3006178	2980860	3009137	0.99	cps
Lead	207-1	2729554	2628810	2698569	2685644	1.92	cps
Lead	208-1	12349606	12070888	12056465	12158987	1.36	cps
Lithium	6-1	1149334	1719233	1788499	1552355	22.59	cps
Magnesium	24-2	6640898	6597382	6727331	6655204	0.99	cps
Manganese	55-2	8579690	8623846	8618863	8607466	0.28	cps
Molybdenum	94-1	227338	227855	226613	227269	0.27	cps
Molybdenum	95-1	262839	261300	262487	262209	0.31	cps
Molybdenum	96-1	313953	312283	312309	312848	0.31	cps
Molybdenum	97-1	163753	163773	163684	163737	0.03	cps
Molybdenum	98-1	423542	422402	420872	422272	0.32	cps
Neodymium	150-1	84159	85122	84393	84558	0.59	cps
Neodymium	150-2	50794	50179	50386	50453	0.62	cps
Nickel	60-2	697894	695327	699455	697559	0.30	cps
Phosphorus	31-2	10484	10564	10791	10613	1.50	cps
Potassium	39-2	1889472	1905466	1937076	1910671	1.27	cps
Rhodium	103-1	6719858	10740716	10910709	9457094	25.08	cps
Rhodium	103-2	6613097	6552320	6578989	6581469	0.46	cps
Scandium	45-1	4227407	6587687	6771382	5862159	24.20	cps
Scandium	45-2	568480	568847	572280	569869	0.37	cps
Selenium	82-1	248	265	284	266	6.81	cps
Selenium	77-2	113	127	143	128	11.77	cps
Selenium	78-2	550	507	557	538	5.05	cps
Silicon	28-1	67158156	66663271	66514907	66778778	0.50	cps
Silver	107-1	10070	10187	10217	10158	0.76	cps
Silver	109-1	9943	9773	9680	9799	1.36	cps
Sodium	23-2	443626	443718	446108	444484	0.32	cps
Strontium	86-1	689345	684405	682504	685418	0.52	cps
Strontium	88-1	6172797	6158824	6054718	6128780	1.05	cps
Sulfur	34-1	260052	256654	256223	257643	0.81	cps
Terbium	159-1	9355509	15084972	15275559	13238680	25.41	cps
Terbium	159-2	10438754	10374424	10239342	10350840	0.98	cps
Thallium	203-1	1463	1577	1597	1546	4.65	cps
Thallium	205-1	3721	3707	3687	3705	0.45	cps
Tin	118-1	719575	721229	717250	719351	0.28	cps
Titanium	47-1	2234053	2236107	2198009	2222723	0.96	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-11

Instrumnet Name :

P7

Client Sample ID :

ME28P9

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:14:41

DataFile Name :

071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	69802	70022	68136	69320	1.49	cps
Vanadium	51-2	283255	284566	285982	284601	0.48	cps
Yttrium	89-1	9543060	14779980	15169614	13164218	23.87	cps
Yttrium	89-2	3851983	3930543	3910214	3897580	1.05	cps
Zinc	66-2	452306	453490	452529	452775	0.14	cps
Zirconium	90-1	207142	206734	205542	206473	0.40	cps
Zirconium	91-1	45377	46453	45845	45891	1.18	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-12 Instrumnet Name : P7
Client Sample ID : ME28Q0 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:17:42 DataFile Name : 072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5089864	4949898	4999168	5012976	1.42	cps
Antimony	121-1	26488	26271	26575	26444	0.59	cps
Arsenic	75-2	12215	11895	12048	12053	1.33	cps
Barium	135-1	2364529	2415665	2348303	2376166	1.48	cps
Barium	137-1	4096578	4034320	4039884	4056927	0.85	cps
Beryllium	9-1	3150	3310	3320	3260	2.93	cps
Bismuth	209-1	8679457	8707054	8647886	8678132	0.34	cps
Bismuth	209-2	7243388	7222992	7238934	7235104	0.15	cps
Bromine	81-1	33662	35496	36224	35127	3.76	cps
Bromine	81-2	4337	4457	4277	4357	2.10	cps
Cadmium	108-1	1200	1020	1150	1123	8.27	cps
Cadmium	106-1	5548	5224	5071	5281	4.61	cps
Cadmium	111-1	16643	16746	16067	16486	2.22	cps
Calcium	43-1	2745217	2702951	2681838	2710002	1.19	cps
Calcium	44-1	43228826	42710619	42828168	42922538	0.63	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	904853	891892	894749	897165	0.76	cps
Cobalt	59-2	128740	130061	128262	129021	0.72	cps
Copper	63-2	2537074	2472326	2494733	2501378	1.31	cps
Dysprosium	156-1	85652	85622	84214	85163	0.97	cps
Dysprosium	156-2	68402	69005	68466	68624	0.48	cps
Erbium	164-1	85228	86817	85426	85824	1.01	cps
Erbium	164-2	60169	59814	60326	60103	0.44	cps
Gadolinium	160-1	85334	87175	84053	85521	1.84	cps
Gadolinium	160-2	63015	62954	63279	63082	0.27	cps
Holmium	165-1	14879930	14669931	14702606	14750822	0.77	cps
Holmium	165-2	10177850	10266741	10211782	10218791	0.44	cps
Indium	115-1	12120181	11852096	11869808	11947362	1.25	cps
Indium	115-2	4191064	4109275	4187584	4162641	1.11	cps
Iron	56-2	252513310	249706383	251274476	251164723	0.56	cps
Iron	57-2	6301645	6210899	6151111	6221218	1.22	cps
Iron	54-2	13702075	13340569	13574393	13539012	1.35	cps
Krypton	83-1	360	393	287	347	15.74	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-12 Instrumnet Name : P7
Client Sample ID : ME28Q0 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:17:42 DataFile Name : 072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9633568	9631583	9775780	9680311	0.85	cps
Lead	207-1	8469099	8322728	8520393	8437407	1.22	cps
Lead	208-1	38376318	38254701	38821203	38484074	0.77	cps
Lithium	6-1	1803391	1798216	1799148	1800252	0.15	cps
Magnesium	24-2	9416402	9278568	9292401	9329124	0.81	cps
Manganese	55-2	8668141	8418962	8581161	8556088	1.48	cps
Molybdenum	94-1	119768	118887	119149	119268	0.38	cps
Molybdenum	95-1	121287	120510	120491	120763	0.38	cps
Molybdenum	96-1	140639	141684	138922	140415	0.99	cps
Molybdenum	97-1	75567	75638	74458	75221	0.88	cps
Molybdenum	98-1	195037	193710	192311	193686	0.70	cps
Neodymium	150-1	123280	124557	122375	123404	0.89	cps
Neodymium	150-2	72683	72223	73025	72644	0.55	cps
Nickel	60-2	541803	535326	538285	538471	0.60	cps
Phosphorus	31-2	21949	22139	22246	22112	0.68	cps
Potassium	39-2	2617217	2598267	2612911	2609465	0.38	cps
Rhodium	103-1	11040139	10847477	10577161	10821592	2.15	cps
Rhodium	103-2	6403434	6438489	6327306	6389743	0.89	cps
Scandium	45-1	6613599	6566778	6505761	6562046	0.82	cps
Scandium	45-2	540587	533982	537472	537347	0.61	cps
Selenium	82-1	392	365	452	403	11.04	cps
Selenium	77-2	247	150	187	194	25.10	cps
Selenium	78-2	720	623	603	649	9.62	cps
Silicon	28-1	96069209	96282909	94983025	95778381	0.73	cps
Silver	107-1	17668	17287	17177	17377	1.48	cps
Silver	109-1	16566	16523	16046	16378	1.76	cps
Sodium	23-2	1131257	1111534	1114373	1119055	0.95	cps
Strontium	86-1	1231099	1219825	1220197	1223707	0.52	cps
Strontium	88-1	11096948	10958000	10924534	10993161	0.83	cps
Sulfur	34-1	336428	335088	330235	333917	0.98	cps
Terbium	159-1	15027045	15181693	15117269	15108669	0.51	cps
Terbium	159-2	10176645	10196812	10132764	10168740	0.32	cps
Thallium	203-1	3017	3070	3150	3079	2.18	cps
Thallium	205-1	6848	7022	6872	6914	1.36	cps
Tin	118-1	130387	130784	129670	130280	0.43	cps
Titanium	47-1	1266568	1249671	1222121	1246120	1.80	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-12

Instrumnet Name :

P7

Client Sample ID :

ME28Q0

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:17:42

DataFile Name :

072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	85771	86163	86391	86108	0.36	cps
Vanadium	51-2	178862	175915	178370	177716	0.89	cps
Yttrium	89-1	15563666	15679639	15280826	15508044	1.32	cps
Yttrium	89-2	3933673	3931749	3975862	3947095	0.63	cps
Zinc	66-2	944274	933698	940143	939372	0.57	cps
Zirconium	90-1	137493	136900	137661	137351	0.29	cps
Zirconium	91-1	30278	30852	30993	30708	1.23	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-13 Instrumnet Name : P7
Client Sample ID : ME28Q1 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:20:44 DataFile Name : 073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4300469	4259806	4251730	4270668	0.61	cps
Antimony	121-1	91489	95994	93877	93787	2.40	cps
Arsenic	75-2	38677	38580	38403	38553	0.36	cps
Barium	135-1	1299574	1347042	1349725	1332114	2.12	cps
Barium	137-1	2380570	2481809	2476854	2446411	2.33	cps
Beryllium	9-1	2457	2734	2790	2660	6.71	cps
Bismuth	209-1	9245481	8748282	8687990	8893918	3.44	cps
Bismuth	209-2	7188194	7147215	7221285	7185565	0.52	cps
Bromine	81-1	18352	18352	18715	18473	1.14	cps
Bromine	81-2	960	983	873	939	6.17	cps
Cadmium	108-1	1233	1237	1203	1225	1.50	cps
Cadmium	106-1	5341	5114	5318	5258	2.37	cps
Cadmium	111-1	15601	16511	16537	16216	3.29	cps
Calcium	43-1	2425024	2507449	2464980	2465818	1.67	cps
Calcium	44-1	38060789	39982326	39187019	39076712	2.47	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4352826	4360666	4371595	4361696	0.22	cps
Cobalt	59-2	284336	283488	284395	284073	0.18	cps
Copper	63-2	11751355	11646376	11651656	11683129	0.51	cps
Dysprosium	156-1	62572	65448	65843	64621	2.76	cps
Dysprosium	156-2	52862	53120	53444	53142	0.55	cps
Erbium	164-1	57976	60293	60115	59461	2.17	cps
Erbium	164-2	42083	41705	42722	42170	1.22	cps
Gadolinium	160-1	59553	62826	62502	61627	2.93	cps
Gadolinium	160-2	46075	45651	45621	45782	0.56	cps
Holmium	165-1	16131015	14798359	14763950	15231108	5.12	cps
Holmium	165-2	10304085	10251528	10322119	10292577	0.36	cps
Indium	115-1	12835156	12014485	12059661	12303101	3.75	cps
Indium	115-2	4221470	4161454	4181697	4188207	0.73	cps
Iron	56-2	1042957371	1042200491	1049693984	1044950616	0.39	cps
Iron	57-2	25617240	25659701	25821535	25699492	0.42	cps
Iron	54-2	56150586	56039241	56370644	56186824	0.30	cps
Krypton	83-1	280	370	267	306	18.40	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-13 Instrumnet Name : P7
Client Sample ID : ME28Q1 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:20:44 DataFile Name : 073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9967437	10526092	10201331	10231620	2.74	cps
Lead	207-1	8881513	9401994	9148270	9143926	2.85	cps
Lead	208-1	40374854	42570238	41817434	41587509	2.68	cps
Lithium	6-1	1851958	1773853	1755703	1793838	2.85	cps
Magnesium	24-2	7387962	7391839	7425920	7401907	0.28	cps
Manganese	55-2	10781851	10801058	10810808	10797906	0.14	cps
Molybdenum	94-1	429555	454611	449356	444507	2.97	cps
Molybdenum	95-1	690826	714914	719897	708546	2.19	cps
Molybdenum	96-1	754447	788157	783723	775442	2.36	cps
Molybdenum	97-1	431021	451727	447557	443435	2.47	cps
Molybdenum	98-1	1115955	1157438	1157323	1143572	2.09	cps
Neodymium	150-1	94041	99041	98645	97242	2.86	cps
Neodymium	150-2	58039	57627	58045	57904	0.41	cps
Nickel	60-2	822039	824719	823271	823343	0.16	cps
Phosphorus	31-2	12258	11561	11594	11805	3.33	cps
Potassium	39-2	1893926	1904224	1913065	1903738	0.50	cps
Rhodium	103-1	11867034	11250538	11007224	11374932	3.90	cps
Rhodium	103-2	6495352	6446419	6530442	6490738	0.65	cps
Scandium	45-1	7208549	6732312	6608428	6849763	4.63	cps
Scandium	45-2	555878	558473	555301	556550	0.30	cps
Selenium	82-1	311	229	333	291	18.94	cps
Selenium	77-2	173	200	163	179	10.59	cps
Selenium	78-2	570	580	570	573	1.01	cps
Silicon	28-1	85553792	89293722	88187815	87678443	2.19	cps
Silver	107-1	17090	17738	18055	17627	2.79	cps
Silver	109-1	16243	16873	16703	16606	1.97	cps
Sodium	23-2	502200	499087	501404	500897	0.32	cps
Strontium	86-1	723328	759149	757256	746578	2.70	cps
Strontium	88-1	6506083	6839587	6732143	6692604	2.54	cps
Sulfur	34-1	266509	267968	267612	267363	0.28	cps
Terbium	159-1	16236603	15376654	15158972	15590743	3.65	cps
Terbium	159-2	10335105	10093332	10228583	10219007	1.19	cps
Thallium	203-1	1994	2097	2060	2050	2.56	cps
Thallium	205-1	5084	5301	5148	5178	2.15	cps
Tin	118-1	6436869	6792647	6799221	6676245	3.11	cps
Titanium	47-1	782552	819790	810490	804278	2.41	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-13

Instrumnet Name :

P7

Client Sample ID :

ME28Q1

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:20:44

DataFile Name :

073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	61752	65671	64546	63990	3.15	cps
Vanadium	51-2	322449	321538	323711	322566	0.34	cps
Yttrium	89-1	16572466	15236859	15184726	15664684	5.02	cps
Yttrium	89-2	3875393	3873910	3872018	3873774	0.04	cps
Zinc	66-2	1292541	1280419	1283471	1285477	0.49	cps
Zirconium	90-1	96532	101564	102216	100104	3.11	cps
Zirconium	91-1	22027	22611	22764	22467	1.73	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-14 Instrumnet Name : P7
Client Sample ID : ME28Q2 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:23:43 DataFile Name : 074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4565407	4544367	4503758	4537844	0.69	cps
Antimony	121-1	28188	27797	28331	28105	0.98	cps
Arsenic	75-2	12972	13133	13363	13156	1.49	cps
Barium	135-1	862896	867672	857467	862678	0.59	cps
Barium	137-1	1505418	1498184	1496818	1500140	0.31	cps
Beryllium	9-1	2370	2120	2227	2239	5.60	cps
Bismuth	209-1	8802019	8765348	8707199	8758189	0.55	cps
Bismuth	209-2	7265282	7280724	7209963	7251990	0.51	cps
Bromine	81-1	17170	16950	17173	17098	0.75	cps
Bromine	81-2	763	810	867	813	6.36	cps
Cadmium	108-1	553	623	643	607	7.79	cps
Cadmium	106-1	4457	4504	4347	4436	1.81	cps
Cadmium	111-1	8938	8915	8791	8881	0.89	cps
Calcium	43-1	2446272	2471613	2437681	2451855	0.72	cps
Calcium	44-1	39140878	39436984	38793074	39123645	0.82	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2715625	2650208	2617105	2660979	1.88	cps
Cobalt	59-2	159807	159332	157325	158821	0.83	cps
Copper	63-2	2284324	2250728	2222745	2252599	1.37	cps
Dysprosium	156-1	62331	63131	62244	62568	0.78	cps
Dysprosium	156-2	50367	50765	49962	50364	0.80	cps
Erbium	164-1	58890	58940	58736	58855	0.18	cps
Erbium	164-2	41966	40883	40930	41260	1.48	cps
Gadolinium	160-1	61444	62649	61936	62010	0.98	cps
Gadolinium	160-2	45958	45891	45764	45871	0.21	cps
Holmium	165-1	14950176	14687317	14982488	14873327	1.09	cps
Holmium	165-2	10420045	10308889	10295202	10341379	0.66	cps
Indium	115-1	12261271	11945199	11923967	12043479	1.57	cps
Indium	115-2	4206910	4212500	4164200	4194537	0.63	cps
Iron	56-2	508976032	506746312	506663206	507461850	0.26	cps
Iron	57-2	12606725	12630600	12443387	12560237	0.81	cps
Iron	54-2	27816316	27463604	27376295	27552072	0.85	cps
Krypton	83-1	393	310	337	347	12.28	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-14 Instrumnet Name : P7
Client Sample ID : ME28Q2 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:23:43 DataFile Name : 074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2895800	2922956	2862670	2893809	1.04	cps
Lead	207-1	2545005	2553810	2571177	2556664	0.52	cps
Lead	208-1	11611353	11652076	11628877	11630769	0.18	cps
Lithium	6-1	1771196	1767210	1763964	1767456	0.20	cps
Magnesium	24-2	9000181	8936743	8886448	8941124	0.64	cps
Manganese	55-2	6453630	6415015	6438184	6435610	0.30	cps
Molybdenum	94-1	216743	218745	217250	217579	0.48	cps
Molybdenum	95-1	322353	320847	320698	321299	0.29	cps
Molybdenum	96-1	355156	357639	355584	356126	0.37	cps
Molybdenum	97-1	201155	203222	200918	201765	0.63	cps
Molybdenum	98-1	519615	519163	520012	519597	0.08	cps
Neodymium	150-1	94662	95708	96165	95512	0.81	cps
Neodymium	150-2	55759	56583	56208	56184	0.73	cps
Nickel	60-2	450812	450136	448460	449803	0.27	cps
Phosphorus	31-2	9460	9099	9386	9315	2.04	cps
Potassium	39-2	1445961	1426789	1424588	1432446	0.82	cps
Rhodium	103-1	11046385	10854091	10791175	10897217	1.22	cps
Rhodium	103-2	6443805	6368151	6243669	6351875	1.59	cps
Scandium	45-1	6731331	6569301	6472814	6591148	1.98	cps
Scandium	45-2	539084	530104	526482	531890	1.22	cps
Selenium	82-1	239	311	188	246	25.13	cps
Selenium	77-2	157	143	223	174	24.57	cps
Selenium	78-2	590	597	480	556	11.79	cps
Silicon	28-1	60566112	60665282	60120122	60450506	0.48	cps
Silver	107-1	7285	7462	7639	7462	2.37	cps
Silver	109-1	7115	7225	7028	7123	1.38	cps
Sodium	23-2	343904	342497	339911	342104	0.59	cps
Strontium	86-1	777179	773851	771213	774081	0.39	cps
Strontium	88-1	6923881	7030520	6857066	6937156	1.26	cps
Sulfur	34-1	264923	265546	265039	265169	0.13	cps
Terbium	159-1	15233142	14966170	15152175	15117162	0.91	cps
Terbium	159-2	10197207	10167370	10164534	10176370	0.18	cps
Thallium	203-1	2967	3037	2980	2995	1.24	cps
Thallium	205-1	6915	6762	6615	6764	2.22	cps
Tin	118-1	756874	762020	762577	760491	0.41	cps
Titanium	47-1	677662	689046	678042	681583	0.95	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-14

Instrumnet Name :

P7

Client Sample ID :

ME28Q2

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:23:43

DataFile Name :

074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	70542	71585	71430	71186	0.79	cps
Vanadium	51-2	237854	234396	234027	235426	0.90	cps
Yttrium	89-1	15288994	14906956	14759293	14985081	1.82	cps
Yttrium	89-2	3805229	3773359	3733565	3770718	0.95	cps
Zinc	66-2	897154	897726	888484	894455	0.58	cps
Zirconium	90-1	89779	91224	90010	90338	0.86	cps
Zirconium	91-1	20137	20137	20201	20158	0.18	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-15 Instrumnet Name : P7
Client Sample ID : ME28Q3 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:26:48 DataFile Name : 075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2541881	2508953	2544537	2531790	0.78	cps
Antimony	121-1	45605	46227	45806	45880	0.69	cps
Arsenic	75-2	18168	18054	18338	18187	0.79	cps
Barium	135-1	878372	889448	892226	886682	0.83	cps
Barium	137-1	1526277	1647348	1626747	1600124	4.05	cps
Beryllium	9-1	2650	2590	2530	2590	2.32	cps
Bismuth	209-1	8999587	8753382	8805911	8852960	1.46	cps
Bismuth	209-2	7347926	7224802	7336084	7302938	0.93	cps
Bromine	81-1	17754	17971	18495	18073	2.11	cps
Bromine	81-2	800	833	860	831	3.62	cps
Cadmium	108-1	2454	2414	2430	2432	0.83	cps
Cadmium	106-1	6642	7225	6902	6923	4.22	cps
Cadmium	111-1	32949	33807	33352	33369	1.29	cps
Calcium	43-1	3159008	3238219	3250025	3215750	1.54	cps
Calcium	44-1	50777113	51473609	51732731	51327818	0.96	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2705394	2745428	2716594	2722472	0.76	cps
Cobalt	59-2	115416	117119	115809	116115	0.77	cps
Copper	63-2	688732	686410	685403	686849	0.25	cps
Dysprosium	156-1	18375	18179	18302	18285	0.54	cps
Dysprosium	156-2	14875	15262	15175	15104	1.35	cps
Erbium	164-1	19046	19307	18950	19101	0.97	cps
Erbium	164-2	13333	13336	13313	13328	0.09	cps
Gadolinium	160-1	17484	17728	17738	17650	0.81	cps
Gadolinium	160-2	13210	13316	13243	13256	0.41	cps
Holmium	165-1	14603554	14491063	14655596	14583405	0.58	cps
Holmium	165-2	10173847	10241749	10250423	10222006	0.41	cps
Indium	115-1	11729724	11943473	11843713	11838970	0.90	cps
Indium	115-2	4202563	4229848	4274669	4235693	0.86	cps
Iron	56-2	1544776830	1532436511	1526258964	1534490768	0.61	cps
Iron	57-2	37976472	37800781	37053369	37610207	1.30	cps
Iron	54-2	83184819	82578275	82577982	82780359	0.42	cps
Krypton	83-1	243	223	290	252	13.56	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-15 Instrumnet Name : P7
Client Sample ID : ME28Q3 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:26:48 DataFile Name : 075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	18612141	18838598	18632194	18694311	0.67	cps
Lead	207-1	16049565	16006854	15841931	15966117	0.69	cps
Lead	208-1	74098091	73505559	73204625	73602758	0.62	cps
Lithium	6-1	1743114	1744400	1693262	1726925	1.69	cps
Magnesium	24-2	7116588	7088467	7184373	7129810	0.69	cps
Manganese	55-2	56172266	55715344	55680506	55856039	0.49	cps
Molybdenum	94-1	104600	106060	106805	105822	1.06	cps
Molybdenum	95-1	136459	140827	137834	138373	1.61	cps
Molybdenum	96-1	167184	169267	167449	167967	0.67	cps
Molybdenum	97-1	84408	85582	86427	85472	1.19	cps
Molybdenum	98-1	218544	221619	222076	220747	0.87	cps
Neodymium	150-1	28776	29458	29948	29394	2.00	cps
Neodymium	150-2	17508	18165	17421	17698	2.30	cps
Nickel	60-2	572686	574033	569936	572218	0.36	cps
Phosphorus	31-2	15288	15184	15655	15376	1.61	cps
Potassium	39-2	1040380	1029094	1039905	1036459	0.62	cps
Rhodium	103-1	10732259	10877233	10738172	10782554	0.76	cps
Rhodium	103-2	6505282	6421733	6402802	6443272	0.85	cps
Scandium	45-1	6431291	6470334	6489435	6463687	0.46	cps
Scandium	45-2	545156	549071	546489	546905	0.36	cps
Selenium	82-1	338	330	273	314	11.31	cps
Selenium	77-2	103	53	50	69	43.37	cps
Selenium	78-2	517	530	533	527	1.67	cps
Silicon	28-1	36831899	37063321	37259567	37051596	0.58	cps
Silver	107-1	87227	88893	89215	88445	1.21	cps
Silver	109-1	83505	84766	85406	84559	1.14	cps
Sodium	23-2	489002	489860	491551	490137	0.26	cps
Strontium	86-1	548657	551892	550486	550345	0.29	cps
Strontium	88-1	4926482	4911082	4965501	4934355	0.57	cps
Sulfur	34-1	244259	244329	245840	244809	0.36	cps
Terbium	159-1	14903755	14809870	14906384	14873336	0.37	cps
Terbium	159-2	10230592	10065674	10081315	10125860	0.90	cps
Thallium	203-1	32375	31687	31253	31772	1.78	cps
Thallium	205-1	74951	75270	75515	75245	0.38	cps
Tin	118-1	185542	185096	185295	185311	0.12	cps
Titanium	47-1	919178	933550	930934	927887	0.82	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-15

Instrumnet Name :

P7

Client Sample ID :

ME28Q3

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:26:48

DataFile Name :

075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	31721	31781	31350	31617	0.74	cps
Vanadium	51-2	279459	279855	281511	280275	0.39	cps
Yttrium	89-1	14400811	14284252	14384559	14356541	0.44	cps
Yttrium	89-2	3689306	3740152	3700391	3709949	0.72	cps
Zinc	66-2	5060883	5003594	4932456	4998978	1.29	cps
Zirconium	90-1	75290	73097	71992	73460	2.29	cps
Zirconium	91-1	15769	16576	16289	16211	2.53	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16 Instrumnet Name : P7
Client Sample ID : ME28Q4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:29:51 DataFile Name : 076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2723028	2737313	2759524	2739955	0.67	cps
Antimony	121-1	45665	45592	45960	45739	0.43	cps
Arsenic	75-2	18792	19176	18745	18904	1.25	cps
Barium	135-1	804276	804035	809045	805785	0.35	cps
Barium	137-1	1395055	1398181	1401753	1398330	0.24	cps
Beryllium	9-1	2590	2987	2644	2740	7.86	cps
Bismuth	209-1	10235258	10229410	10129595	10198088	0.58	cps
Bismuth	209-2	8576875	8544616	8397767	8506419	1.12	cps
Bromine	81-1	18605	18659	19179	18814	1.69	cps
Bromine	81-2	1047	950	977	991	5.04	cps
Cadmium	108-1	3834	3981	3804	3873	2.44	cps
Cadmium	106-1	9126	8953	8923	9001	1.22	cps
Cadmium	111-1	32921	32079	31711	32237	1.92	cps
Calcium	43-1	3428817	3459709	3497897	3462141	1.00	cps
Calcium	44-1	55299119	55713421	55900806	55637782	0.55	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2701201	2734107	2748834	2728047	0.89	cps
Cobalt	59-2	119175	117666	117818	118220	0.70	cps
Copper	63-2	681134	681601	678685	680473	0.23	cps
Dysprosium	156-1	19834	19514	19440	19596	1.07	cps
Dysprosium	156-2	16296	16169	16069	16178	0.70	cps
Erbium	164-1	20141	20485	19677	20101	2.02	cps
Erbium	164-2	14334	14684	14277	14432	1.53	cps
Gadolinium	160-1	18399	19046	18385	18610	2.03	cps
Gadolinium	160-2	14261	14564	14281	14369	1.18	cps
Holmium	165-1	14819500	14753942	14419596	14664346	1.46	cps
Holmium	165-2	10400392	10379632	10272784	10350936	0.66	cps
Indium	115-1	12259519	12130993	11999983	12130165	1.07	cps
Indium	115-2	4317491	4271894	4245707	4278364	0.85	cps
Iron	56-2	1546890484	1525312457	1536531337	1536244759	0.70	cps
Iron	57-2	38197059	37410617	37689380	37765685	1.06	cps
Iron	54-2	82722470	82509745	82750059	82660758	0.16	cps
Krypton	83-1	343	290	310	314	8.57	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16 Instrumnet Name : P7
Client Sample ID : ME28Q4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:29:51 DataFile Name : 076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	55417074	55045631	54863283	55108663	0.51	cps
Lead	207-1	47527973	47119758	46939494	47195742	0.64	cps
Lead	208-1	218846675	217298813	216181758	217442416	0.62	cps
Lithium	6-1	1703355	1727097	1688666	1706372	1.14	cps
Magnesium	24-2	8996498	8972294	8952735	8973843	0.24	cps
Manganese	55-2	44712071	44693979	44822101	44742717	0.15	cps
Molybdenum	94-1	96797	97364	97055	97072	0.29	cps
Molybdenum	95-1	122306	122649	123297	122751	0.41	cps
Molybdenum	96-1	153118	155103	155534	154585	0.83	cps
Molybdenum	97-1	75353	76656	76917	76309	1.10	cps
Molybdenum	98-1	195763	199294	199304	198120	1.03	cps
Neodymium	150-1	30426	31335	30400	30720	1.73	cps
Neodymium	150-2	18516	18172	18472	18387	1.02	cps
Nickel	60-2	536567	537700	535896	536721	0.17	cps
Phosphorus	31-2	14380	14350	14764	14498	1.59	cps
Potassium	39-2	1197367	1196217	1194973	1196186	0.10	cps
Rhodium	103-1	10838424	10861600	10916043	10872022	0.37	cps
Rhodium	103-2	6566357	6516757	6507300	6530138	0.49	cps
Scandium	45-1	6569371	6550830	6595829	6572010	0.34	cps
Scandium	45-2	559575	561856	555127	558853	0.61	cps
Selenium	82-1	285	361	330	325	11.68	cps
Selenium	77-2	77	120	77	91	27.46	cps
Selenium	78-2	547	497	500	514	5.43	cps
Silicon	28-1	39186611	39466810	39827974	39493798	0.81	cps
Silver	107-1	85067	85976	87082	86042	1.17	cps
Silver	109-1	81645	81266	82101	81671	0.51	cps
Sodium	23-2	529964	530988	528497	529816	0.24	cps
Strontium	86-1	595267	596936	594646	595616	0.20	cps
Strontium	88-1	5273590	5334182	5392961	5333578	1.12	cps
Sulfur	34-1	275000	277250	279903	277385	0.88	cps
Terbium	159-1	15097309	15034349	15047719	15059792	0.22	cps
Terbium	159-2	10293589	10377954	10137364	10269636	1.19	cps
Thallium	203-1	27571	28209	27671	27817	1.23	cps
Thallium	205-1	65132	64957	65795	65294	0.68	cps
Tin	118-1	189296	186838	187719	187951	0.66	cps
Titanium	47-1	634205	642279	641403	639296	0.69	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16 Instrumnet Name : P7
Client Sample ID : ME28Q4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:29:51 DataFile Name : 076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	36443	36931	36366	36580	0.84	cps
Vanadium	51-2	241366	240406	242409	241394	0.42	cps
Yttrium	89-1	14724244	14571054	14662540	14652612	0.53	cps
Yttrium	89-2	3806598	3819787	3735375	3787253	1.20	cps
Zinc	66-2	24157512	24003485	23824443	23995147	0.69	cps
Zirconium	90-1	69909	71007	70374	70430	0.78	cps
Zirconium	91-1	15602	15729	15932	15754	1.06	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-17 Instrumnet Name : P7
Client Sample ID : ME28Q4D Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:32:58 DataFile Name : 077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2764045	2768825	2707381	2746751	1.24	cps
Antimony	121-1	45428	46501	45585	45838	1.26	cps
Arsenic	75-2	19543	19176	19543	19421	1.09	cps
Barium	135-1	803849	813882	812098	809943	0.66	cps
Barium	137-1	1397730	1414651	1409502	1407294	0.62	cps
Beryllium	9-1	2710	2760	2750	2740	0.97	cps
Bismuth	209-1	10558448	10233385	10110157	10300663	2.25	cps
Bismuth	209-2	8633483	8602162	8581849	8605831	0.30	cps
Bromine	81-1	18405	19256	19019	18893	2.32	cps
Bromine	81-2	867	870	887	874	1.23	cps
Cadmium	108-1	3731	4074	3767	3857	4.89	cps
Cadmium	106-1	9366	9183	8963	9171	2.20	cps
Cadmium	111-1	32420	32408	32626	32485	0.38	cps
Calcium	43-1	3461749	3489535	3511364	3487549	0.71	cps
Calcium	44-1	55463601	56196121	56904652	56188125	1.28	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2783359	2741190	2725615	2750055	1.09	cps
Cobalt	59-2	120404	121853	119527	120595	0.97	cps
Copper	63-2	691308	686752	686667	688242	0.39	cps
Dysprosium	156-1	19183	19517	19163	19288	1.03	cps
Dysprosium	156-2	16370	16490	16149	16336	1.06	cps
Erbium	164-1	19757	20195	20425	20126	1.68	cps
Erbium	164-2	14171	14361	13760	14097	2.18	cps
Gadolinium	160-1	18319	19060	18976	18785	2.16	cps
Gadolinium	160-2	14244	14304	14311	14286	0.26	cps
Holmium	165-1	15251639	14673782	14486240	14803887	2.69	cps
Holmium	165-2	10500854	10371187	10201717	10357919	1.45	cps
Indium	115-1	12258660	12180494	11925681	12121612	1.44	cps
Indium	115-2	4349349	4296825	4295793	4313989	0.71	cps
Iron	56-2	1553655870	1544832670	1545387764	1547958768	0.32	cps
Iron	57-2	38367755	38324184	38302339	38331426	0.09	cps
Iron	54-2	83518907	83007347	83252412	83259555	0.31	cps
Krypton	83-1	260	290	263	271	6.07	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-17 Instrumnet Name : P7
Client Sample ID : ME28Q4D Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:32:58 DataFile Name : 077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	55328046	55632923	54712989	55224653	0.85	cps
Lead	207-1	47519853	47590838	47270248	47460313	0.35	cps
Lead	208-1	218309713	219630302	218184418	218708145	0.37	cps
Lithium	6-1	1768914	1732657	1695458	1732343	2.12	cps
Magnesium	24-2	9156949	9130532	9107981	9131820	0.27	cps
Manganese	55-2	44668174	44889723	45097638	44885178	0.48	cps
Molybdenum	94-1	96606	98673	97646	97642	1.06	cps
Molybdenum	95-1	122672	125832	125038	124514	1.32	cps
Molybdenum	96-1	154254	157286	156403	155981	1.00	cps
Molybdenum	97-1	75886	77557	76291	76578	1.14	cps
Molybdenum	98-1	196292	198965	199237	198165	0.82	cps
Neodymium	150-1	30293	31331	30567	30730	1.75	cps
Neodymium	150-2	19096	19073	18592	18921	1.50	cps
Nickel	60-2	540192	539851	538471	539505	0.17	cps
Phosphorus	31-2	14997	14931	15238	15055	1.07	cps
Potassium	39-2	1219076	1209714	1201195	1209995	0.74	cps
Rhodium	103-1	11371722	10987433	10967520	11108892	2.05	cps
Rhodium	103-2	6704085	6591235	6482772	6592697	1.68	cps
Scandium	45-1	6858858	6613655	6515697	6662737	2.65	cps
Scandium	45-2	568911	566252	562245	565803	0.59	cps
Selenium	82-1	371	368	393	377	3.69	cps
Selenium	77-2	97	90	80	89	9.44	cps
Selenium	78-2	553	613	540	569	6.87	cps
Silicon	28-1	39471946	40016039	39810114	39766033	0.69	cps
Silver	107-1	86083	86864	86831	86593	0.51	cps
Silver	109-1	80556	83348	82396	82100	1.73	cps
Sodium	23-2	533958	534400	533780	534046	0.06	cps
Strontium	86-1	587342	602613	594677	594877	1.28	cps
Strontium	88-1	5321986	5401315	5316065	5346455	0.89	cps
Sulfur	34-1	276904	279442	277973	278106	0.46	cps
Terbium	159-1	15628360	15072279	15073537	15258059	2.10	cps
Terbium	159-2	10176852	10324195	10231888	10244312	0.73	cps
Thallium	203-1	27317	28096	27949	27787	1.49	cps
Thallium	205-1	64971	65366	66290	65542	1.03	cps
Tin	118-1	187743	191208	191235	190062	1.06	cps
Titanium	47-1	642203	648091	646382	645559	0.47	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-17

Instrumnet Name :

P7

Client Sample ID :

ME28Q4D

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:32:58

DataFile Name :

077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	36132	36507	37412	36684	1.79	cps
Vanadium	51-2	243222	244452	243479	243718	0.27	cps
Yttrium	89-1	15067270	14569423	14452831	14696508	2.22	cps
Yttrium	89-2	3803615	3814782	3795692	3804697	0.25	cps
Zinc	66-2	24449481	24245219	23867796	24187499	1.22	cps
Zirconium	90-1	70190	71868	71195	71084	1.19	cps
Zirconium	91-1	15231	15872	16086	15730	2.83	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16LX5 Instrumnet Name : P7
Client Sample ID : ME28Q4L Dilution Factor : 5
Date & Time Acquired : 2024-12-23 15:36:00 DataFile Name : 078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	530361	526758	528349	528489	0.34	cps
Antimony	121-1	8923	8643	8896	8821	1.75	cps
Arsenic	75-2	3867	3811	3610	3763	3.58	cps
Barium	135-1	156701	156667	158787	157385	0.77	cps
Barium	137-1	271869	274061	272686	272872	0.41	cps
Beryllium	9-1	573	600	580	584	2.37	cps
Bismuth	209-1	8992782	8875007	8887889	8918559	0.72	cps
Bismuth	209-2	7406033	7567493	7391111	7454879	1.31	cps
Bromine	81-1	16239	16136	16426	16267	0.90	cps
Bromine	81-2	297	277	333	302	9.51	cps
Cadmium	108-1	757	760	773	763	1.15	cps
Cadmium	106-1	4701	4211	4547	4486	5.59	cps
Cadmium	111-1	8402	8010	8580	8331	3.50	cps
Calcium	43-1	705967	715530	716674	712723	0.82	cps
Calcium	44-1	10868969	10969847	11023514	10954110	0.72	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	524933	525956	526940	525943	0.19	cps
Cobalt	59-2	24159	23822	23001	23661	2.52	cps
Copper	63-2	136687	136987	137501	137058	0.30	cps
Dysprosium	156-1	3677	3774	3947	3799	3.60	cps
Dysprosium	156-2	3194	3414	2950	3186	7.28	cps
Erbium	164-1	3774	4091	3911	3925	4.05	cps
Erbium	164-2	2837	2790	2704	2777	2.44	cps
Gadolinium	160-1	3600	3787	3751	3713	2.66	cps
Gadolinium	160-2	3164	3034	3187	3128	2.64	cps
Holmium	165-1	14486488	14479301	14350703	14438831	0.53	cps
Holmium	165-2	10183645	10135206	10152572	10157141	0.24	cps
Indium	115-1	12278917	11901036	11750196	11976716	2.27	cps
Indium	115-2	4240706	4299638	4246376	4262240	0.76	cps
Iron	56-2	301022602	301745569	302498915	301755696	0.24	cps
Iron	57-2	7387891	7357084	7386158	7377044	0.23	cps
Iron	54-2	16449193	16375319	16268599	16364370	0.55	cps
Krypton	83-1	187	217	253	219	15.25	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16LX5 Instrumnet Name : P7
Client Sample ID : ME28Q4L Dilution Factor : 5
Date & Time Acquired : 2024-12-23 15:36:00 DataFile Name : 078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10776301	10906210	11049111	10910540	1.25	cps
Lead	207-1	9342598	9335315	9409990	9362635	0.44	cps
Lead	208-1	42844689	43099627	43660451	43201589	0.97	cps
Lithium	6-1	1736686	1685826	1668116	1696876	2.10	cps
Magnesium	24-2	1767470	1810902	1754133	1777502	1.67	cps
Manganese	55-2	8774143	8759084	8782021	8771749	0.13	cps
Molybdenum	94-1	18652	19236	18929	18939	1.54	cps
Molybdenum	95-1	23616	24544	24243	24134	1.96	cps
Molybdenum	96-1	29520	31073	29520	30038	2.99	cps
Molybdenum	97-1	15021	15135	15028	15061	0.42	cps
Molybdenum	98-1	37842	38828	39330	38667	1.96	cps
Neodymium	150-1	6321	5971	5955	6082	3.41	cps
Neodymium	150-2	3580	3767	3597	3648	2.83	cps
Nickel	60-2	106552	105883	105991	106142	0.34	cps
Phosphorus	31-2	2987	3134	3047	3056	2.41	cps
Potassium	39-2	293191	295610	295871	294891	0.50	cps
Rhodium	103-1	11068105	10984959	10805562	10952876	1.23	cps
Rhodium	103-2	6513388	6622272	6519143	6551601	0.94	cps
Scandium	45-1	6522550	6508550	6380546	6470549	1.21	cps
Scandium	45-2	543956	543692	545961	544536	0.23	cps
Selenium	82-1	215	138	105	152	37.02	cps
Selenium	77-2	13	0	30	14	104.07	cps
Selenium	78-2	387	447	473	436	10.19	cps
Silicon	28-1	8430303	8520761	8544772	8498612	0.71	cps
Silver	107-1	16973	17114	17534	17207	1.70	cps
Silver	109-1	15815	16343	16413	16190	2.02	cps
Sodium	23-2	137030	136269	135486	136262	0.57	cps
Strontium	86-1	117323	118888	118250	118153	0.67	cps
Strontium	88-1	1008138	1010392	1018659	1012396	0.55	cps
Sulfur	34-1	203554	206162	204412	204709	0.65	cps
Terbium	159-1	14999743	14869581	14748357	14872560	0.85	cps
Terbium	159-2	10256373	9985496	10106795	10116221	1.34	cps
Thallium	203-1	5578	5368	5681	5542	2.88	cps
Thallium	205-1	13100	13487	13570	13386	1.88	cps
Tin	118-1	37763	37906	37796	37822	0.20	cps
Titanium	47-1	124648	127054	126338	126013	0.98	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16LX5 Instrumnet Name : P7
Client Sample ID : ME28Q4L Dilution Factor : 5
Date & Time Acquired : 2024-12-23 15:36:00 DataFile Name : 078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7275	6835	7012	7041	3.15	cps
Vanadium	51-2	46986	46542	46705	46744	0.48	cps
Yttrium	89-1	14180229	14038369	13714025	13977541	1.71	cps
Yttrium	89-2	3666320	3665537	3666108	3665988	0.01	cps
Zinc	66-2	4793843	4858547	4818600	4823663	0.68	cps
Zirconium	90-1	13339	13600	13666	13535	1.28	cps
Zirconium	91-1	2804	3087	2820	2904	5.48	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-18 Instrumnet Name : P7
Client Sample ID : ME28Q4S Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:39:09 DataFile Name : 079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2783614	2817769	2810238	2803874	0.64	cps
Antimony	121-1	315580	317532	317821	316978	0.38	cps
Arsenic	75-2	24564	23856	23666	24028	1.97	cps
Barium	135-1	2313219	2297671	2331060	2313983	0.72	cps
Barium	137-1	3908661	3917081	3908679	3911474	0.12	cps
Beryllium	9-1	18224	18184	17824	18077	1.22	cps
Bismuth	209-1	10146287	10125079	10226871	10166079	0.53	cps
Bismuth	209-2	8558248	8432107	8555272	8515209	0.85	cps
Bromine	81-1	18889	19163	19543	19198	1.71	cps
Bromine	81-2	943	843	787	858	9.25	cps
Cadmium	108-1	6211	6321	6125	6219	1.59	cps
Cadmium	106-1	12108	12259	12245	12204	0.68	cps
Cadmium	111-1	67115	66864	66993	66991	0.19	cps
Calcium	43-1	3420198	3525345	3392048	3445864	2.04	cps
Calcium	44-1	54840344	55993559	55013099	55282334	1.13	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2911652	2889901	2932312	2911288	0.73	cps
Cobalt	59-2	965855	959042	956680	960525	0.50	cps
Copper	63-2	955790	951188	956066	954348	0.29	cps
Dysprosium	156-1	18960	19240	19400	19200	1.16	cps
Dysprosium	156-2	16006	15659	16133	15932	1.54	cps
Erbium	164-1	20021	20565	20044	20210	1.52	cps
Erbium	164-2	14187	14204	14297	14230	0.42	cps
Gadolinium	160-1	18506	18506	18436	18482	0.22	cps
Gadolinium	160-2	13940	14084	14037	14020	0.52	cps
Holmium	165-1	14596215	14828650	14856691	14760519	0.97	cps
Holmium	165-2	10366555	10189707	10293143	10283135	0.86	cps
Indium	115-1	12081395	12017462	11851263	11983373	0.99	cps
Indium	115-2	4259122	4213108	4278784	4250338	0.79	cps
Iron	56-2	1509672671	1494581258	1507872138	1504042022	0.55	cps
Iron	57-2	37288472	36356819	36766558	36803950	1.27	cps
Iron	54-2	81679109	81466069	81107555	81417578	0.35	cps
Krypton	83-1	297	283	273	284	4.11	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-18 Instrumnet Name : P7
Client Sample ID : ME28Q4S Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:39:09 DataFile Name : 079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	53823894	54595486	54522921	54314100	0.78	cps
Lead	207-1	46545338	46318919	46518643	46460967	0.27	cps
Lead	208-1	215270323	213879433	214757328	214635695	0.33	cps
Lithium	6-1	1711197	1731265	1749296	1730586	1.10	cps
Magnesium	24-2	8911575	8885068	8815787	8870810	0.56	cps
Manganese	55-2	43817754	43899828	44130131	43949238	0.37	cps
Molybdenum	94-1	94613	96793	95277	95561	1.17	cps
Molybdenum	95-1	121617	122964	122144	122242	0.56	cps
Molybdenum	96-1	150619	152451	153412	152161	0.93	cps
Molybdenum	97-1	74669	76411	74431	75171	1.44	cps
Molybdenum	98-1	193919	195037	193764	194240	0.36	cps
Neodymium	150-1	30717	30830	30346	30631	0.83	cps
Neodymium	150-2	18602	17725	17938	18088	2.53	cps
Nickel	60-2	736083	732942	733858	734295	0.22	cps
Phosphorus	31-2	14447	14327	14353	14376	0.44	cps
Potassium	39-2	1171298	1168778	1169339	1169805	0.11	cps
Rhodium	103-1	10920692	10932079	10827616	10893462	0.53	cps
Rhodium	103-2	6535144	6532372	6580901	6549472	0.42	cps
Scandium	45-1	6623563	6619849	6665381	6636264	0.38	cps
Scandium	45-2	558075	555737	553874	555895	0.38	cps
Selenium	82-1	4659	4847	4627	4711	2.52	cps
Selenium	77-2	553	470	483	502	8.91	cps
Selenium	78-2	1853	1833	2040	1909	5.97	cps
Silicon	28-1	39395378	39563948	39242967	39400764	0.41	cps
Silver	107-1	254124	256949	255864	255646	0.56	cps
Silver	109-1	241980	244034	244004	243339	0.48	cps
Sodium	23-2	516313	515047	515731	515697	0.12	cps
Strontium	86-1	584804	589127	587293	587075	0.37	cps
Strontium	88-1	5350604	5324318	5289359	5321427	0.58	cps
Sulfur	34-1	276304	278665	274226	276399	0.80	cps
Terbium	159-1	15266414	15294674	15061539	15207542	0.84	cps
Terbium	159-2	10214988	10158038	10256842	10209956	0.49	cps
Thallium	203-1	145396	148543	146939	146960	1.07	cps
Thallium	205-1	345005	350022	345448	346825	0.80	cps
Tin	118-1	184282	185951	185340	185191	0.46	cps
Titanium	47-1	634632	644327	631764	636908	1.03	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-18

Instrumnet Name :

P7

Client Sample ID :

ME28Q4S

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:39:09

DataFile Name :

079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	35761	36530	36731	36341	1.41	cps
Vanadium	51-2	718159	711619	716854	715544	0.48	cps
Yttrium	89-1	14682037	14517762	14482648	14560816	0.73	cps
Yttrium	89-2	3762127	3762339	3788960	3771142	0.41	cps
Zinc	66-2	23629022	23456759	23555922	23547234	0.37	cps
Zirconium	90-1	68783	70314	68854	69317	1.25	cps
Zirconium	91-1	15522	15732	14971	15408	2.55	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-19 Instrumnet Name : P7
Client Sample ID : ME28Q5 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:42:08 DataFile Name : 080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3606782	3547966	3572723	3575823	0.83	cps
Antimony	121-1	4894	5114	4968	4992	2.24	cps
Arsenic	75-2	12989	13159	13186	13111	0.81	cps
Barium	135-1	396897	400604	394593	397365	0.76	cps
Barium	137-1	688469	692855	690319	690548	0.32	cps
Beryllium	9-1	1603	1760	1727	1697	4.86	cps
Bismuth	209-1	8798814	8642391	8558456	8666554	1.41	cps
Bismuth	209-2	7279205	7158745	7086215	7174722	1.36	cps
Bromine	81-1	19119	19269	19129	19172	0.44	cps
Bromine	81-2	1127	1090	1210	1142	5.38	cps
Cadmium	108-1	437	453	383	424	8.62	cps
Cadmium	106-1	4011	4027	3901	3979	1.73	cps
Cadmium	111-1	7523	7339	7476	7446	1.28	cps
Calcium	43-1	2475544	2431859	2432183	2446528	1.03	cps
Calcium	44-1	39264556	39494434	38804474	39187821	0.90	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	212633	210914	210059	211202	0.62	cps
Cobalt	59-2	162280	162007	163450	162579	0.47	cps
Copper	63-2	452587	449407	448862	450285	0.45	cps
Dysprosium	156-1	67983	69078	68744	68602	0.82	cps
Dysprosium	156-2	55218	55204	54482	54968	0.77	cps
Erbium	164-1	58980	59282	58472	58911	0.69	cps
Erbium	164-2	40773	40198	40900	40623	0.92	cps
Gadolinium	160-1	67177	67960	67344	67494	0.61	cps
Gadolinium	160-2	49413	49347	48982	49247	0.47	cps
Holmium	165-1	14993431	14522136	14544992	14686853	1.81	cps
Holmium	165-2	10311882	10043322	10184064	10179756	1.32	cps
Indium	115-1	12213936	11802897	11762883	11926572	2.09	cps
Indium	115-2	4106323	4131730	4048889	4095648	1.04	cps
Iron	56-2	208170417	206106184	205466250	206580950	0.68	cps
Iron	57-2	5130480	5051863	5046036	5076126	0.93	cps
Iron	54-2	11197148	10982828	11093441	11091139	0.97	cps
Krypton	83-1	297	320	263	293	9.71	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-19 Instrumnet Name : P7
Client Sample ID : ME28Q5 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:42:08 DataFile Name : 080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	586918	598599	595205	593574	1.01	cps
Lead	207-1	491093	498211	493922	494409	0.72	cps
Lead	208-1	2287469	2317336	2312099	2305635	0.69	cps
Lithium	6-1	1805320	1765056	1776156	1782177	1.17	cps
Magnesium	24-2	5471407	5422868	5442726	5445667	0.45	cps
Manganese	55-2	4158004	4102009	4114081	4124698	0.71	cps
Molybdenum	94-1	42846	43160	43290	43099	0.53	cps
Molybdenum	95-1	41766	43307	42906	42660	1.87	cps
Molybdenum	96-1	51132	51708	51092	51311	0.67	cps
Molybdenum	97-1	26651	26808	26568	26676	0.46	cps
Molybdenum	98-1	69240	69360	68536	69045	0.64	cps
Neodymium	150-1	104702	105012	103365	104359	0.84	cps
Neodymium	150-2	61835	61771	60633	61413	1.10	cps
Nickel	60-2	124351	122099	123826	123425	0.95	cps
Phosphorus	31-2	24486	24253	24079	24273	0.84	cps
Potassium	39-2	1092488	1083276	1080597	1085454	0.57	cps
Rhodium	103-1	11314402	10780367	10579477	10891416	3.49	cps
Rhodium	103-2	6370467	6243564	6335728	6316586	1.04	cps
Scandium	45-1	6662017	6391463	6378066	6477182	2.47	cps
Scandium	45-2	521663	515185	515109	517319	0.73	cps
Selenium	82-1	339	286	364	330	12.03	cps
Selenium	77-2	193	210	237	213	10.25	cps
Selenium	78-2	623	493	543	553	11.85	cps
Silicon	28-1	37649326	37466720	36694850	37270299	1.36	cps
Silver	107-1	4097	3294	3524	3638	11.37	cps
Silver	109-1	3844	3164	3147	3385	11.75	cps
Sodium	23-2	250611	247684	248579	248958	0.60	cps
Strontium	86-1	440723	438972	439041	439579	0.23	cps
Strontium	88-1	3916845	3951536	3894165	3920849	0.74	cps
Sulfur	34-1	203651	203864	198478	201998	1.51	cps
Terbium	159-1	15617000	14873844	14955749	15148864	2.69	cps
Terbium	159-2	9987035	9955885	10133196	10025372	0.94	cps
Thallium	203-1	3450	3751	3704	3635	4.44	cps
Thallium	205-1	8673	8916	8770	8786	1.40	cps
Tin	118-1	21429	22060	21403	21631	1.72	cps
Titanium	47-1	152805	151519	149927	151417	0.95	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-19

Instrumnet Name :

P7

Client Sample ID :

ME28Q5

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:42:08

DataFile Name :

080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	61829	62291	62707	62276	0.70	cps
Vanadium	51-2	171448	171960	168344	170584	1.15	cps
Yttrium	89-1	15032873	14799298	14454250	14762140	1.97	cps
Yttrium	89-2	3716334	3646872	3641198	3668135	1.14	cps
Zinc	66-2	189105	187720	186600	187808	0.67	cps
Zirconium	90-1	50195	50761	52711	51222	2.58	cps
Zirconium	91-1	11178	11241	11251	11223	0.35	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-20 Instrumnet Name : P7
Client Sample ID : ME28R3 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:45:18 DataFile Name : 081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3728608	3648480	3671195	3682761	1.12	cps
Antimony	121-1	19513	20184	19443	19714	2.08	cps
Arsenic	75-2	11024	10744	10827	10865	1.32	cps
Barium	135-1	628036	636130	630141	631436	0.67	cps
Barium	137-1	1081846	1101512	1094532	1092630	0.91	cps
Beryllium	9-1	1827	1950	1957	1911	3.83	cps
Bismuth	209-1	8987058	8759854	8586781	8777898	2.29	cps
Bismuth	209-2	7162429	7155228	7169172	7162276	0.10	cps
Bromine	81-1	19173	19717	19760	19550	1.67	cps
Bromine	81-2	1203	1243	1107	1185	5.93	cps
Cadmium	108-1	1650	1593	1683	1642	2.77	cps
Cadmium	106-1	5208	5294	5391	5298	1.73	cps
Cadmium	111-1	21563	22358	22319	22080	2.03	cps
Calcium	43-1	3570988	3601098	3608338	3593475	0.55	cps
Calcium	44-1	57625576	58169936	57816697	57870736	0.48	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1977730	1929089	1928932	1945250	1.45	cps
Cobalt	59-2	120018	120273	118305	119532	0.90	cps
Copper	63-2	863942	866489	853633	861355	0.79	cps
Dysprosium	156-1	42173	42554	41394	42040	1.41	cps
Dysprosium	156-2	33627	33226	33727	33527	0.79	cps
Erbium	164-1	37463	39211	38897	38524	2.42	cps
Erbium	164-2	26575	26469	27303	26782	1.70	cps
Gadolinium	160-1	42180	42076	41956	42071	0.27	cps
Gadolinium	160-2	31322	31365	30834	31174	0.95	cps
Holmium	165-1	14921449	14660114	14354039	14645200	1.94	cps
Holmium	165-2	10097118	10032418	10222629	10117388	0.96	cps
Indium	115-1	11892139	11861248	11598157	11783848	1.37	cps
Indium	115-2	4119577	4017571	4102973	4080041	1.34	cps
Iron	56-2	663814990	664781270	660527203	663041155	0.34	cps
Iron	57-2	16351319	16358986	16161376	16290560	0.69	cps
Iron	54-2	35613359	35705532	35490911	35603267	0.30	cps
Krypton	83-1	263	240	260	254	4.96	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-20 Instrumnet Name : P7
Client Sample ID : ME28R3 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:45:18 DataFile Name : 081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6360679	6456101	6282659	6366480	1.36	cps
Lead	207-1	5513736	5572965	5498478	5528393	0.71	cps
Lead	208-1	24956444	25819585	25112414	25296148	1.82	cps
Lithium	6-1	1842465	1768785	1789334	1800195	2.11	cps
Magnesium	24-2	7001150	6941238	6929305	6957231	0.55	cps
Manganese	55-2	23789866	23834703	23529605	23718058	0.69	cps
Molybdenum	94-1	95854	98800	97881	97512	1.55	cps
Molybdenum	95-1	129348	130767	130912	130343	0.66	cps
Molybdenum	96-1	151176	151482	151896	151518	0.24	cps
Molybdenum	97-1	80336	81398	82092	81275	1.09	cps
Molybdenum	98-1	207568	212973	211425	210655	1.32	cps
Neodymium	150-1	64282	65698	64898	64960	1.09	cps
Neodymium	150-2	38422	38593	37603	38206	1.38	cps
Nickel	60-2	375453	373937	371480	373623	0.54	cps
Phosphorus	31-2	19973	19549	19840	19787	1.10	cps
Potassium	39-2	1922229	1912282	1916871	1917127	0.26	cps
Rhodium	103-1	10890778	10583302	10612163	10695414	1.59	cps
Rhodium	103-2	6256810	6242669	6167874	6222451	0.77	cps
Scandium	45-1	6506112	6308738	6263837	6359562	2.03	cps
Scandium	45-2	517277	507823	510546	511882	0.95	cps
Selenium	82-1	377	375	344	365	5.14	cps
Selenium	77-2	107	147	107	120	19.24	cps
Selenium	78-2	613	450	470	511	17.43	cps
Silicon	28-1	42162495	43118260	43089917	42790224	1.27	cps
Silver	107-1	36335	37004	36305	36548	1.08	cps
Silver	109-1	34728	35577	35587	35297	1.40	cps
Sodium	23-2	312111	309006	311501	310873	0.53	cps
Strontium	86-1	918508	928663	930245	925806	0.69	cps
Strontium	88-1	8275225	8346502	8359687	8327138	0.55	cps
Sulfur	34-1	254337	255105	254990	254811	0.16	cps
Terbium	159-1	15367416	14909933	14796031	15024460	2.01	cps
Terbium	159-2	10083962	10074762	10063608	10074111	0.10	cps
Thallium	203-1	11472	10965	10968	11135	2.62	cps
Thallium	205-1	26502	26710	26169	26460	1.03	cps
Tin	118-1	102166	104089	102444	102900	1.01	cps
Titanium	47-1	592631	590992	589762	591129	0.24	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-20

Instrumnet Name :

P7

Client Sample ID :

ME28R3

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 15:45:18

DataFile Name :

081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	49883	50536	50385	50268	0.68	cps
Vanadium	51-2	376653	380425	374809	377295	0.76	cps
Yttrium	89-1	14841846	14408213	14210844	14486968	2.23	cps
Yttrium	89-2	3641475	3612425	3589488	3614463	0.72	cps
Zinc	66-2	1979067	1993187	1973559	1981938	0.51	cps
Zirconium	90-1	61213	62455	62854	62174	1.38	cps
Zirconium	91-1	13623	14160	13370	13718	2.94	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-21 Instrumnet Name : P7
Client Sample ID : ME28R4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:48:20 DataFile Name : 082SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3924966	3881784	3908393	3905048	0.56	cps
Antimony	121-1	23823	24738	24648	24403	2.07	cps
Arsenic	75-2	13440	13910	13546	13632	1.81	cps
Barium	135-1	681152	680554	683029	681578	0.19	cps
Barium	137-1	1181952	1186807	1178486	1182415	0.35	cps
Beryllium	9-1	2010	1977	1987	1991	0.86	cps
Bismuth	209-1	8626574	8749177	8611506	8662419	0.87	cps
Bismuth	209-2	7123927	7192003	7180515	7165481	0.51	cps
Bromine	81-1	19039	19830	19566	19478	2.07	cps
Bromine	81-2	1217	1190	1250	1219	2.47	cps
Cadmium	108-1	1557	1633	1757	1649	6.12	cps
Cadmium	106-1	5745	5601	5755	5700	1.51	cps
Cadmium	111-1	23973	23809	23573	23785	0.85	cps
Calcium	43-1	3709135	3710864	3719738	3713246	0.15	cps
Calcium	44-1	59193986	58946779	59622157	59254307	0.58	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1843557	1855446	1837629	1845544	0.49	cps
Cobalt	59-2	147877	149586	149213	148892	0.60	cps
Copper	63-2	974529	977770	978536	976945	0.22	cps
Dysprosium	156-1	45002	44828	45236	45022	0.45	cps
Dysprosium	156-2	36471	35729	36872	36357	1.59	cps
Erbium	164-1	41030	41261	40890	41060	0.46	cps
Erbium	164-2	29004	28345	28893	28747	1.23	cps
Gadolinium	160-1	44788	45206	44300	44765	1.01	cps
Gadolinium	160-2	33794	33193	33610	33532	0.92	cps
Holmium	165-1	14568592	14641356	14559633	14589860	0.31	cps
Holmium	165-2	10192643	10123558	10115228	10143810	0.42	cps
Indium	115-1	11664384	11616288	11598144	11626272	0.29	cps
Indium	115-2	4090965	4129419	4089374	4103253	0.55	cps
Iron	56-2	853676387	848902547	843933694	848837543	0.57	cps
Iron	57-2	21007243	20934006	20831346	20924198	0.42	cps
Iron	54-2	45847704	45992746	45642953	45827801	0.38	cps
Krypton	83-1	273	227	273	258	10.45	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-21 Instrumnet Name : P7
Client Sample ID : ME28R4 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:48:20 DataFile Name : 082SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7074666	7211468	7129290	7138474	0.96	cps
Lead	207-1	6146021	6226804	6186633	6186486	0.65	cps
Lead	208-1	28062780	28589606	28373257	28341881	0.93	cps
Lithium	6-1	1777710	1763524	1735111	1758782	1.23	cps
Magnesium	24-2	7485624	7453261	7449136	7462673	0.27	cps
Manganese	55-2	25095010	24815683	24945783	24952159	0.56	cps
Molybdenum	94-1	84706	83952	83295	83984	0.84	cps
Molybdenum	95-1	107111	108532	107719	107788	0.66	cps
Molybdenum	96-1	128710	128811	130022	129181	0.57	cps
Molybdenum	97-1	67187	67675	66410	67091	0.95	cps
Molybdenum	98-1	172552	174630	174633	173939	0.69	cps
Neodymium	150-1	67641	69031	69058	68577	1.18	cps
Neodymium	150-2	41220	40926	39993	40713	1.57	cps
Nickel	60-2	392359	391212	393058	392210	0.24	cps
Phosphorus	31-2	21201	21776	21432	21470	1.35	cps
Potassium	39-2	1950087	1988311	1948224	1962207	1.15	cps
Rhodium	103-1	10524157	10590495	10529140	10547931	0.35	cps
Rhodium	103-2	6189490	6282619	6313937	6262015	1.03	cps
Scandium	45-1	6382606	6351873	6322556	6352345	0.47	cps
Scandium	45-2	522577	520658	520706	521314	0.21	cps
Selenium	82-1	304	414	340	353	15.84	cps
Selenium	77-2	123	97	127	116	14.23	cps
Selenium	78-2	483	513	510	502	3.27	cps
Silicon	28-1	37732703	38199511	38220349	38050854	0.72	cps
Silver	107-1	40409	39383	39420	39738	1.46	cps
Silver	109-1	38324	37746	38665	38245	1.21	cps
Sodium	23-2	332363	329490	330916	330923	0.43	cps
Strontium	86-1	929867	940929	924943	931913	0.88	cps
Strontium	88-1	8272138	8393237	8371949	8345775	0.77	cps
Sulfur	34-1	263810	264885	262234	263643	0.51	cps
Terbium	159-1	15015516	14711854	14866314	14864561	1.02	cps
Terbium	159-2	9974924	9998508	9995880	9989771	0.13	cps
Thallium	203-1	11959	12146	12289	12131	1.37	cps
Thallium	205-1	28156	28497	29064	28572	1.61	cps
Tin	118-1	132028	130346	130737	131037	0.67	cps
Titanium	47-1	588718	591653	587428	589267	0.37	cps

LB Number :LB134068

Operator :Jaswal

Lab Sample ID :P5154-21

Instrumnet Name :P7

Client Sample ID :ME28R4

Dilution Factor :1

Date & Time Acquired :2024-12-23 15:48:20

DataFile Name :082SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	51171	52215	52720	52035	1.52	cps
Vanadium	51-2	412345	413698	410487	412177	0.39	cps
Yttrium	89-1	14382586	14330762	14137046	14283465	0.91	cps
Yttrium	89-2	3683991	3668602	3688735	3680443	0.29	cps
Zinc	66-2	2120617	2117019	2119408	2119014	0.09	cps
Zirconium	90-1	60276	60524	60300	60367	0.23	cps
Zirconium	91-1	13480	13923	13590	13664	1.69	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV045 Instrumnet Name : P7
Client Sample ID : CCV045 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:59:06 DataFile Name : 083CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	12655112	12425131	12481441	12520562	0.96	cps
Antimony	121-1	5801177	5863220	5817808	5827402	0.55	cps
Arsenic	75-2	272726	272105	269248	271359	0.68	cps
Barium	135-1	7496764	7624081	7553826	7558224	0.84	cps
Barium	137-1	12829825	13188062	12966539	12994809	1.39	cps
Beryllium	9-1	667036	686810	680512	678119	1.49	cps
Bismuth	209-1	7819152	7665871	7548533	7677852	1.77	cps
Bismuth	209-2	6427307	6470617	6419565	6439163	0.43	cps
Bromine	81-1	13720	13757	13339	13605	1.70	cps
Bromine	81-2	160	123	103	129	22.30	cps
Cadmium	108-1	101059	104304	103496	102953	1.64	cps
Cadmium	106-1	146463	150581	146083	147709	1.69	cps
Cadmium	111-1	1358123	1389511	1373257	1373631	1.14	cps
Calcium	43-1	7800789	7872989	7634451	7769410	1.57	cps
Calcium	44-1	123219125	124547045	122862925	123543031	0.72	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2178736	2209145	2147571	2178484	1.41	cps
Cobalt	59-2	3446709	3391121	3368560	3402130	1.18	cps
Copper	63-2	24230669	24286581	24060384	24192545	0.49	cps
Dysprosium	156-1	313	250	280	281	11.27	cps
Dysprosium	156-2	467	423	513	468	9.62	cps
Erbium	164-1	263	277	313	284	9.10	cps
Erbium	164-2	153	223	173	183	19.67	cps
Gadolinium	160-1	253	240	260	251	4.06	cps
Gadolinium	160-2	620	553	617	597	6.30	cps
Holmium	165-1	13974208	13713731	13283746	13657229	2.55	cps
Holmium	165-2	9670088	9564155	9733415	9655886	0.89	cps
Indium	115-1	10718645	10510573	10252930	10494049	2.22	cps
Indium	115-2	3778480	3744953	3726800	3750078	0.70	cps
Iron	56-2	518734846	516522646	517102592	517453361	0.22	cps
Iron	57-2	12828731	12754422	12761184	12781446	0.32	cps
Iron	54-2	27955303	27880485	27805685	27880491	0.27	cps
Krypton	83-1	163	227	150	180	22.76	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV045 Instrumnet Name : P7
Client Sample ID : CCV045 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:59:06 DataFile Name : 083CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21295834	21898502	21721678	21638671	1.43	cps
Lead	207-1	19163975	19846253	19691718	19567315	1.83	cps
Lead	208-1	86633943	89289162	89073215	88332107	1.67	cps
Lithium	6-1	1650642	1600800	1608996	1620146	1.65	cps
Magnesium	24-2	98262049	96702255	96263382	97075895	1.08	cps
Manganese	55-2	17468874	17499147	17459062	17475694	0.12	cps
Molybdenum	94-1	19932959	20760961	20168857	20287592	2.10	cps
Molybdenum	95-1	28892340	30006023	29128895	29342420	2.00	cps
Molybdenum	96-1	31521298	32829563	31931747	32094203	2.08	cps
Molybdenum	97-1	18065558	18619643	18249569	18311590	1.54	cps
Molybdenum	98-1	46878053	48100706	47580654	47519804	1.29	cps
Neodymium	150-1	393	470	463	442	9.60	cps
Neodymium	150-2	150	123	150	141	10.91	cps
Nickel	60-2	813916	805590	800230	806578	0.86	cps
Phosphorus	31-2	111542	110575	108951	110356	1.19	cps
Potassium	39-2	62643744	62249004	62540846	62477865	0.33	cps
Rhodium	103-1	9737282	9432455	9211020	9460252	2.79	cps
Rhodium	103-2	5547817	5484304	5571625	5534582	0.82	cps
Scandium	45-1	6175605	6041716	5868390	6028570	2.55	cps
Scandium	45-2	480679	474673	478936	478096	0.65	cps
Selenium	82-1	83111	84237	84429	83925	0.85	cps
Selenium	77-2	8229	8586	8586	8467	2.43	cps
Selenium	78-2	28755	28063	28638	28485	1.30	cps
Silicon	28-1	3424497	3438563	3401713	3421591	0.54	cps
Silver	107-1	7108826	7128725	7041372	7092974	0.65	cps
Silver	109-1	6797757	7019295	6818233	6878429	1.78	cps
Sodium	23-2	157647181	159373288	156709898	157910122	0.86	cps
Strontium	86-1	1883284	1945962	1867836	1899027	2.18	cps
Strontium	88-1	16323970	16523576	16343346	16396964	0.67	cps
Sulfur	34-1	584023	593599	580524	586049	1.16	cps
Terbium	159-1	14270013	13926131	13815234	14003792	1.69	cps
Terbium	159-2	9516484	9593676	9557305	9555822	0.40	cps
Thallium	203-1	5537169	5744587	5604219	5628658	1.88	cps
Thallium	205-1	13194902	13302422	13175477	13224267	0.52	cps
Tin	118-1	4798253	4995406	4890411	4894690	2.02	cps
Titanium	47-1	7164318	7334037	7204994	7234450	1.22	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV045 Instrumnet Name : P7
Client Sample ID : CCV045 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 15:59:06 DataFile Name : 083CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17273014	17600848	17800846	17558236	1.52	cps
Vanadium	51-2	1961771	1964994	1958351	1961705	0.17	cps
Yttrium	89-1	13067031	12887660	12561490	12838727	2.00	cps
Yttrium	89-2	3310757	3273507	3242892	3275718	1.04	cps
Zinc	66-2	4017564	3961617	3950279	3976487	0.91	cps
Zirconium	90-1	9957816	10209231	10063998	10077015	1.25	cps
Zirconium	91-1	2196522	2277164	2234030	2235905	1.80	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB045 Instrumnet Name : P7
Client Sample ID : CCB045 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 16:03:31 DataFile Name : 084CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	513	503	570	529	6.80	cps
Antimony	121-1	1247	1233	1007	1162	11.61	cps
Arsenic	75-2	0	7	13	7	99.98	cps
Barium	135-1	430	293	233	319	31.61	cps
Barium	137-1	827	467	407	567	40.09	cps
Beryllium	9-1	120	143	103	122	16.44	cps
Bismuth	209-1	8924810	8645180	8395311	8655100	3.06	cps
Bismuth	209-2	7341641	7327510	7342807	7337319	0.12	cps
Bromine	81-1	13810	14124	13613	13849	1.86	cps
Bromine	81-2	123	133	130	129	3.95	cps
Cadmium	108-1	17	13	10	13	25.01	cps
Cadmium	106-1	3227	2724	2904	2951	8.64	cps
Cadmium	111-1	2321	1937	2072	2110	9.22	cps
Calcium	43-1	677	637	487	600	16.69	cps
Calcium	44-1	15011	12916	11685	13204	12.74	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1420	1333	1450	1401	4.32	cps
Cobalt	59-2	167	150	113	143	19.04	cps
Copper	63-2	1663	1593	1490	1582	5.51	cps
Dysprosium	156-1	17	3	0	7	132.33	cps
Dysprosium	156-2	10	7	7	8	24.71	cps
Erbium	164-1	50	50	37	46	16.89	cps
Erbium	164-2	23	67	17	36	76.36	cps
Gadolinium	160-1	43	47	50	47	7.15	cps
Gadolinium	160-2	530	427	483	480	10.78	cps
Holmium	165-1	14587160	14063938	13922166	14191088	2.47	cps
Holmium	165-2	10131222	9904524	9956128	9997291	1.19	cps
Indium	115-1	12092017	11534331	11463857	11696735	2.94	cps
Indium	115-2	4136765	4118450	4150955	4135390	0.39	cps
Iron	56-2	33783	29562	28931	30759	8.58	cps
Iron	57-2	1177	1143	1177	1166	1.65	cps
Iron	54-2	2830	2590	2960	2794	6.72	cps
Krypton	83-1	233	253	233	240	4.81	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB045 Instrumnet Name : P7
Client Sample ID : CCB045 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 16:03:31 DataFile Name : 084CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2057	1823	1453	1778	17.11	cps
Lead	207-1	1880	1463	1363	1569	17.47	cps
Lead	208-1	8474	7031	5994	7166	17.38	cps
Lithium	6-1	1818787	1771956	1747025	1779256	2.05	cps
Magnesium	24-2	2297	2130	2057	2161	5.69	cps
Manganese	55-2	783	767	730	760	3.59	cps
Molybdenum	94-1	1700	1140	1070	1303	26.49	cps
Molybdenum	95-1	1940	1417	967	1441	33.80	cps
Molybdenum	96-1	2214	1513	1160	1629	32.91	cps
Molybdenum	97-1	1207	893	670	923	29.20	cps
Molybdenum	98-1	3277	2150	1677	2368	34.72	cps
Neodymium	150-1	3	0	0	1	173.21	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	330	337	307	324	4.86	cps
Phosphorus	31-2	173	130	130	144	17.32	cps
Potassium	39-2	48714	48230	48855	48600	0.67	cps
Rhodium	103-1	11018365	10501718	10500279	10673454	2.80	cps
Rhodium	103-2	6404013	6197192	6336236	6312480	1.67	cps
Scandium	45-1	6466312	6159727	6136801	6254280	2.94	cps
Scandium	45-2	514417	505994	514205	511539	0.94	cps
Selenium	82-1	53	8	53	38	67.57	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	460	500	360	440	16.39	cps
Silicon	28-1	572575	573938	584555	577023	1.14	cps
Silver	107-1	623	493	413	510	20.78	cps
Silver	109-1	563	473	410	482	15.98	cps
Sodium	23-2	30196	29131	29792	29706	1.81	cps
Strontium	86-1	413	520	420	451	13.25	cps
Strontium	88-1	1103	863	740	902	20.48	cps
Sulfur	34-1	174797	175535	178692	176341	1.17	cps
Terbium	159-1	15126188	14442761	14402203	14657051	2.78	cps
Terbium	159-2	9970812	9877434	9958757	9935668	0.51	cps
Thallium	203-1	807	760	697	754	7.32	cps
Thallium	205-1	1953	1717	1773	1815	6.81	cps
Tin	118-1	1673	1743	1590	1669	4.60	cps
Titanium	47-1	437	393	213	348	34.05	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCB045

Instrumnet Name :

P7

Client Sample ID :

CCB045

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 16:03:31

DataFile Name :

084CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	803	600	390	598	34.57	cps
Vanadium	51-2	50	40	53	48	14.52	cps
Yttrium	89-1	13778043	13475999	13368357	13540800	1.57	cps
Yttrium	89-2	3463865	3377122	3480151	3440379	1.61	cps
Zinc	66-2	510	423	600	511	17.28	cps
Zirconium	90-1	1317	1193	1150	1220	7.09	cps
Zirconium	91-1	317	283	230	277	15.80	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:16:47 DataFile Name : 087SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	553914	546418	551024	550452	0.69	cps
Antimony	121-1	8786	8933	8816	8845	0.88	cps
Arsenic	75-2	3664	3887	3711	3754	3.14	cps
Barium	135-1	158367	158464	159896	158909	0.54	cps
Barium	137-1	272059	274900	276678	274546	0.85	cps
Beryllium	9-1	587	613	607	602	2.30	cps
Bismuth	209-1	8917047	8971345	8775213	8887869	1.14	cps
Bismuth	209-2	7664622	7615735	7476295	7585551	1.29	cps
Bromine	81-1	15852	16493	16393	16246	2.12	cps
Bromine	81-2	323	300	343	322	6.73	cps
Cadmium	108-1	860	867	817	848	3.20	cps
Cadmium	106-1	4061	3864	4081	4002	2.99	cps
Cadmium	111-1	8048	8063	7996	8036	0.44	cps
Calcium	43-1	724096	737343	733548	731662	0.93	cps
Calcium	44-1	11264672	11353366	11182571	11266870	0.76	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	546569	539898	542681	543049	0.62	cps
Cobalt	59-2	23769	23886	24116	23924	0.74	cps
Copper	63-2	143460	143540	143786	143595	0.12	cps
Dysprosium	156-1	3764	3777	3841	3794	1.08	cps
Dysprosium	156-2	3187	3270	3137	3198	2.11	cps
Erbium	164-1	3917	4027	3841	3928	2.39	cps
Erbium	164-2	2794	2924	2807	2841	2.52	cps
Gadolinium	160-1	3564	3724	3530	3606	2.87	cps
Gadolinium	160-2	3364	3017	2954	3111	7.10	cps
Holmium	165-1	14369823	14275080	14078864	14241255	1.04	cps
Holmium	165-2	10259840	10291008	10390097	10313648	0.66	cps
Indium	115-1	11899490	11904112	11999107	11934236	0.47	cps
Indium	115-2	4413481	4340092	4343305	4365626	0.95	cps
Iron	56-2	311631395	311025075	311235755	311297409	0.10	cps
Iron	57-2	7697545	7603333	7698021	7666300	0.71	cps
Iron	54-2	17012667	16829609	16816267	16886181	0.65	cps
Krypton	83-1	270	207	243	240	13.25	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:16:47 DataFile Name : 087SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10927161	11065760	10991499	10994807	0.63	cps
Lead	207-1	9317979	9422793	9410809	9383861	0.61	cps
Lead	208-1	43107149	43517088	43190160	43271465	0.50	cps
Lithium	6-1	1710019	1730386	1689833	1710079	1.19	cps
Magnesium	24-2	1871413	1863722	1853109	1862748	0.49	cps
Manganese	55-2	9083529	8999303	9095802	9059544	0.58	cps
Molybdenum	94-1	19226	19430	19089	19248	0.89	cps
Molybdenum	95-1	24247	24314	24360	24307	0.23	cps
Molybdenum	96-1	30605	31140	30391	30712	1.25	cps
Molybdenum	97-1	14464	15051	14928	14814	2.09	cps
Molybdenum	98-1	38517	39126	39179	38941	0.94	cps
Neodymium	150-1	5975	6125	5928	6009	1.71	cps
Neodymium	150-2	3781	3774	3474	3676	4.77	cps
Nickel	60-2	109657	110665	109653	109992	0.53	cps
Phosphorus	31-2	3224	3110	3184	3173	1.81	cps
Potassium	39-2	283125	282429	286340	283965	0.73	cps
Rhodium	103-1	11065649	10947536	10976134	10996440	0.56	cps
Rhodium	103-2	6695733	6692681	6625939	6671451	0.59	cps
Scandium	45-1	6618896	6612127	6560374	6597133	0.49	cps
Scandium	45-2	559855	559627	560577	560020	0.09	cps
Selenium	82-1	129	179	126	144	20.52	cps
Selenium	77-2	7	17	20	14	48.02	cps
Selenium	78-2	470	477	430	459	5.50	cps
Silicon	28-1	8591021	8767736	8636709	8665155	1.06	cps
Silver	107-1	17317	17327	17531	17392	0.69	cps
Silver	109-1	16596	16496	16590	16561	0.34	cps
Sodium	23-2	128530	127025	127412	127656	0.61	cps
Strontium	86-1	117769	116597	120125	118164	1.52	cps
Strontium	88-1	1019871	1019349	1031782	1023667	0.69	cps
Sulfur	34-1	207928	211225	208073	209076	0.89	cps
Terbium	159-1	14807241	14678544	14836834	14774206	0.57	cps
Terbium	159-2	10297607	10186898	10249463	10244656	0.54	cps
Thallium	203-1	5621	5505	5588	5571	1.08	cps
Thallium	205-1	13283	13403	13300	13329	0.49	cps
Tin	118-1	37773	38652	38582	38335	1.27	cps
Titanium	47-1	126877	129683	128033	128198	1.10	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4 Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:16:47 DataFile Name : 087SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	6982	7039	6989	7003	0.44	cps
Vanadium	51-2	48498	48511	47478	48162	1.23	cps
Yttrium	89-1	14157178	14113440	14072815	14114478	0.30	cps
Yttrium	89-2	3748971	3790492	3710889	3750117	1.06	cps
Zinc	66-2	4976377	4902211	4893540	4924043	0.92	cps
Zirconium	90-1	13823	14547	14167	14179	2.55	cps
Zirconium	91-1	3207	3147	3257	3204	1.72	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-17DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4D Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:20:43 DataFile Name : 088SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	571893	569203	566938	569344	0.44	cps
Antimony	121-1	9120	9473	9523	9372	2.35	cps
Arsenic	75-2	3994	4034	3941	3989	1.17	cps
Barium	135-1	159802	166042	163432	163092	1.92	cps
Barium	137-1	280089	281764	283699	281850	0.64	cps
Beryllium	9-1	570	633	600	601	5.27	cps
Bismuth	209-1	8814818	8879398	8766035	8820084	0.64	cps
Bismuth	209-2	7616734	7479812	7567597	7554714	0.92	cps
Bromine	81-1	16299	16266	16736	16434	1.60	cps
Bromine	81-2	323	337	337	332	2.32	cps
Cadmium	108-1	730	773	810	771	5.19	cps
Cadmium	106-1	4364	4437	4127	4310	3.76	cps
Cadmium	111-1	8568	8399	8610	8526	1.31	cps
Calcium	43-1	744987	749218	750983	748396	0.41	cps
Calcium	44-1	11719433	11509086	11662496	11630338	0.94	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	564080	558430	559978	560829	0.52	cps
Cobalt	59-2	24874	24914	24744	24844	0.36	cps
Copper	63-2	148625	147469	147852	147982	0.40	cps
Dysprosium	156-1	3944	3661	3771	3792	3.77	cps
Dysprosium	156-2	3364	3444	3247	3352	2.95	cps
Erbium	164-1	3994	4114	4137	4082	1.88	cps
Erbium	164-2	2880	2880	3064	2941	3.60	cps
Gadolinium	160-1	3894	3727	3634	3752	3.51	cps
Gadolinium	160-2	3210	3274	3390	3292	2.77	cps
Holmium	165-1	14516169	14250755	14095525	14287483	1.49	cps
Holmium	165-2	10486613	10439604	10306506	10410908	0.90	cps
Indium	115-1	12143667	11973124	11828725	11981839	1.32	cps
Indium	115-2	4412631	4323460	4347535	4361209	1.06	cps
Iron	56-2	324544575	319224769	320760609	321509984	0.85	cps
Iron	57-2	7963391	7874423	7893483	7910432	0.59	cps
Iron	54-2	17628626	17377247	17310173	17438682	0.96	cps
Krypton	83-1	283	260	283	276	4.89	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-17DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4D Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:20:43 DataFile Name : 088SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11225832	11165880	11058177	11149963	0.76	cps
Lead	207-1	9532896	9579994	9547924	9553605	0.25	cps
Lead	208-1	43850431	44145042	43865688	43953720	0.38	cps
Lithium	6-1	1666466	1702005	1692576	1687016	1.09	cps
Magnesium	24-2	1939874	1914525	1923972	1926123	0.67	cps
Manganese	55-2	9481442	9282857	9295223	9353174	1.19	cps
Molybdenum	94-1	19954	19910	20030	19965	0.30	cps
Molybdenum	95-1	24734	24841	25415	24997	1.47	cps
Molybdenum	96-1	31644	31811	31901	31786	0.41	cps
Molybdenum	97-1	15085	15572	15812	15489	2.39	cps
Molybdenum	98-1	40295	40178	40152	40209	0.19	cps
Neodymium	150-1	6285	6175	6325	6261	1.24	cps
Neodymium	150-2	3804	3797	3797	3799	0.10	cps
Nickel	60-2	112806	112743	113425	112991	0.33	cps
Phosphorus	31-2	3174	3310	3144	3209	2.77	cps
Potassium	39-2	294120	291370	293005	292832	0.47	cps
Rhodium	103-1	11225852	11071088	10951027	11082656	1.24	cps
Rhodium	103-2	6732192	6667819	6679943	6693318	0.51	cps
Scandium	45-1	6700808	6586117	6598268	6628398	0.95	cps
Scandium	45-2	568104	566765	565741	566870	0.21	cps
Selenium	82-1	106	130	103	113	13.24	cps
Selenium	77-2	17	30	27	24	28.38	cps
Selenium	78-2	440	513	460	471	8.05	cps
Silicon	28-1	8808226	8842102	8809612	8819980	0.22	cps
Silver	107-1	17941	17974	18011	17976	0.20	cps
Silver	109-1	16867	16850	16900	16872	0.15	cps
Sodium	23-2	130621	130587	131256	130822	0.29	cps
Strontium	86-1	119752	121365	121690	120936	0.86	cps
Strontium	88-1	1047531	1057011	1052749	1052430	0.45	cps
Sulfur	34-1	209391	208570	208053	208671	0.32	cps
Terbium	159-1	14879364	14810359	14870389	14853370	0.25	cps
Terbium	159-2	10334936	10330392	10374968	10346765	0.24	cps
Thallium	203-1	5575	5761	5645	5660	1.67	cps
Thallium	205-1	13754	13967	13353	13691	2.28	cps
Tin	118-1	43141	38856	40303	40766	5.35	cps
Titanium	47-1	130712	132423	133540	132225	1.08	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-17DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4D Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:20:43 DataFile Name : 088SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7162	7029	7089	7093	0.94	cps
Vanadium	51-2	49417	50216	49718	49784	0.81	cps
Yttrium	89-1	14109152	14174866	14116195	14133405	0.26	cps
Yttrium	89-2	3767539	3710677	3753307	3743841	0.79	cps
Zinc	66-2	5140159	5077623	5033925	5083902	1.05	cps
Zirconium	90-1	14497	14948	14751	14732	1.53	cps
Zirconium	91-1	3297	3137	3207	3214	2.50	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16LDL2X25 Instrumnet Name : P7
Client Sample ID : ME28Q4L Dilution Factor : 25
Date & Time Acquired : 2024-12-23 16:23:49 DataFile Name : 089SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	111192	109937	111665	110931	0.81	cps
Antimony	121-1	1747	1960	1937	1881	6.22	cps
Arsenic	75-2	840	830	717	796	8.61	cps
Barium	135-1	31896	31916	31983	31931	0.14	cps
Barium	137-1	53995	54962	55478	54812	1.37	cps
Beryllium	9-1	210	133	123	156	30.48	cps
Bismuth	209-1	8698188	8681372	8550756	8643438	0.93	cps
Bismuth	209-2	7251358	7421851	7460103	7377771	1.51	cps
Bromine	81-1	15712	15812	16473	15999	2.58	cps
Bromine	81-2	167	170	187	174	6.14	cps
Cadmium	108-1	137	160	187	161	15.53	cps
Cadmium	106-1	3470	3474	3594	3513	2.00	cps
Cadmium	111-1	3497	3503	3568	3523	1.12	cps
Calcium	43-1	145866	147040	146243	146383	0.41	cps
Calcium	44-1	2242949	2280420	2225848	2249739	1.24	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	110215	109487	109641	109781	0.35	cps
Cobalt	59-2	4858	4594	4911	4787	3.54	cps
Copper	63-2	34092	33708	34613	34138	1.33	cps
Dysprosium	156-1	763	830	763	786	4.90	cps
Dysprosium	156-2	660	603	667	643	5.41	cps
Erbium	164-1	820	763	830	804	4.47	cps
Erbium	164-2	577	557	633	589	6.75	cps
Gadolinium	160-1	697	833	767	766	8.93	cps
Gadolinium	160-2	1050	990	1043	1028	3.20	cps
Holmium	165-1	14245894	14378535	14339837	14321422	0.48	cps
Holmium	165-2	10303418	10302217	10326732	10310789	0.13	cps
Indium	115-1	12237101	11993566	11945836	12058835	1.30	cps
Indium	115-2	4395669	4372104	4382839	4383537	0.27	cps
Iron	56-2	63343247	62171076	62260239	62591521	1.04	cps
Iron	57-2	1550666	1542693	1528559	1540639	0.73	cps
Iron	54-2	3404700	3392499	3395237	3397479	0.19	cps
Krypton	83-1	193	287	300	260	22.35	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16LDL2X25 Instrumnet Name : P7
Client Sample ID : ME28Q4L Dilution Factor : 25
Date & Time Acquired : 2024-12-23 16:23:49 DataFile Name : 089SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2188061	2228734	2216518	2211105	0.94	cps
Lead	207-1	1868050	1894673	1909255	1890659	1.11	cps
Lead	208-1	8585348	8794730	8719264	8699781	1.22	cps
Lithium	6-1	1699251	1646399	1681605	1675752	1.61	cps
Magnesium	24-2	362386	359801	362894	361694	0.46	cps
Manganese	55-2	1853519	1815498	1840430	1836482	1.05	cps
Molybdenum	94-1	3917	4191	3937	4015	3.80	cps
Molybdenum	95-1	5064	5141	5204	5137	1.37	cps
Molybdenum	96-1	6181	6371	6502	6351	2.54	cps
Molybdenum	97-1	3310	2987	3000	3099	5.90	cps
Molybdenum	98-1	7665	8156	7649	7823	3.68	cps
Neodymium	150-1	1163	1243	1257	1221	4.13	cps
Neodymium	150-2	763	720	607	697	11.61	cps
Nickel	60-2	22590	22634	22550	22591	0.18	cps
Phosphorus	31-2	737	723	837	766	8.09	cps
Potassium	39-2	97842	96963	97637	97480	0.47	cps
Rhodium	103-1	11240502	11152532	11021032	11138022	0.99	cps
Rhodium	103-2	6759825	6678381	6788318	6742175	0.85	cps
Scandium	45-1	6624488	6626590	6514534	6588537	0.97	cps
Scandium	45-2	560912	561094	561082	561029	0.02	cps
Selenium	82-1	157	57	21	78	90.33	cps
Selenium	77-2	7	3	3	4	43.40	cps
Selenium	78-2	470	463	423	452	5.58	cps
Silicon	28-1	2442809	2496577	2433903	2457763	1.38	cps
Silver	107-1	3480	3574	3400	3485	2.49	cps
Silver	109-1	3370	3364	3320	3352	0.81	cps
Sodium	23-2	45230	45189	45677	45365	0.60	cps
Strontium	86-1	23889	24170	24193	24084	0.70	cps
Strontium	88-1	202470	206620	205637	204909	1.06	cps
Sulfur	34-1	194632	197697	196540	196290	0.79	cps
Terbium	159-1	14770288	14865976	14597352	14744539	0.92	cps
Terbium	159-2	10146603	10233352	10131844	10170600	0.54	cps
Thallium	203-1	1383	1313	1290	1329	3.66	cps
Thallium	205-1	3180	3427	3384	3330	3.96	cps
Tin	118-1	8549	8966	8846	8787	2.44	cps
Titanium	47-1	25775	26507	25845	26042	1.55	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16LDL2X25

Instrumnet Name :

P7

Client Sample ID :

ME28Q4L

Dilution Factor :

25

Date & Time Acquired :

2024-12-23 16:23:49

DataFile Name :

089SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1313	1430	1543	1429	8.05	cps
Vanadium	51-2	9743	9556	9563	9621	1.10	cps
Yttrium	89-1	14225109	14175110	14025931	14142050	0.73	cps
Yttrium	89-2	3706194	3737119	3731968	3725094	0.44	cps
Zinc	66-2	963840	961337	961210	962129	0.15	cps
Zirconium	90-1	3234	3360	3377	3324	2.36	cps
Zirconium	91-1	760	740	670	723	6.53	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-18DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4S Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:27:36 DataFile Name : 090SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	575903	571244	575092	574080	0.43	cps
Antimony	121-1	62529	62950	64480	63320	1.62	cps
Arsenic	75-2	4731	4818	5118	4889	4.15	cps
Barium	135-1	418661	427651	430118	425477	1.42	cps
Barium	137-1	737879	741135	740697	739904	0.24	cps
Beryllium	9-1	3740	3877	3724	3780	2.23	cps
Bismuth	209-1	9080296	8882374	8243654	8735441	5.01	cps
Bismuth	209-2	7584163	7603248	7588700	7592037	0.13	cps
Bromine	81-1	16403	16987	16963	16784	1.97	cps
Bromine	81-2	373	340	327	347	6.93	cps
Cadmium	108-1	1240	1247	1207	1231	1.74	cps
Cadmium	106-1	5028	4604	4724	4785	4.56	cps
Cadmium	111-1	15347	14846	15612	15268	2.55	cps
Calcium	43-1	721717	732479	737166	730454	1.08	cps
Calcium	44-1	11250948	11374033	11280625	11301869	0.57	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	589546	587221	586286	587684	0.29	cps
Cobalt	59-2	201442	199581	201098	200707	0.49	cps
Copper	63-2	206180	204348	205789	205439	0.47	cps
Dysprosium	156-1	3857	3497	3717	3691	4.92	cps
Dysprosium	156-2	3284	3210	3310	3268	1.59	cps
Erbium	164-1	3801	3877	3854	3844	1.02	cps
Erbium	164-2	2940	2924	2964	2943	0.68	cps
Gadolinium	160-1	3724	3684	3774	3727	1.21	cps
Gadolinium	160-2	3214	3317	3237	3256	1.66	cps
Holmium	165-1	14874058	14305066	13261042	14146722	5.78	cps
Holmium	165-2	10442654	10408875	10249889	10367139	0.99	cps
Indium	115-1	12425379	12059396	11086492	11857089	5.84	cps
Indium	115-2	4422993	4393163	4406983	4407713	0.34	cps
Iron	56-2	314498635	314089515	311659189	313415780	0.49	cps
Iron	57-2	7651221	7696365	7664562	7670716	0.30	cps
Iron	54-2	17085781	16897033	16954675	16979163	0.57	cps
Krypton	83-1	290	267	270	276	4.58	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-18DL2X5 Instrumnet Name : P7
Client Sample ID : ME28Q4S Dilution Factor : 5
Date & Time Acquired : 2024-12-23 16:27:36 DataFile Name : 090SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	11135174	11048694	10899024	11027630	1.08	cps
Lead	207-1	9374059	9334686	9325829	9344858	0.27	cps
Lead	208-1	43087692	43180046	42976921	43081553	0.24	cps
Lithium	6-1	1761028	1664902	1597800	1674577	4.90	cps
Magnesium	24-2	1841704	1845803	1858452	1848653	0.47	cps
Manganese	55-2	9152587	9157834	9147835	9152752	0.05	cps
Molybdenum	94-1	18795	18856	18966	18872	0.46	cps
Molybdenum	95-1	23976	24611	24791	24459	1.75	cps
Molybdenum	96-1	30742	30322	30883	30649	0.95	cps
Molybdenum	97-1	15171	15068	15191	15143	0.44	cps
Molybdenum	98-1	38066	39543	39269	38960	2.02	cps
Neodymium	150-1	5788	5935	5845	5856	1.26	cps
Neodymium	150-2	3671	3654	3937	3754	4.24	cps
Nickel	60-2	155907	155295	155035	155412	0.29	cps
Phosphorus	31-2	3064	3047	3140	3084	1.61	cps
Potassium	39-2	283183	283977	285753	284304	0.46	cps
Rhodium	103-1	11494256	11260574	10436047	11063625	5.02	cps
Rhodium	103-2	6714875	6716594	6748596	6726689	0.28	cps
Scandium	45-1	6860077	6672388	6127229	6553231	5.81	cps
Scandium	45-2	570589	566122	566090	567600	0.46	cps
Selenium	82-1	999	1053	1013	1022	2.76	cps
Selenium	77-2	120	90	110	107	14.32	cps
Selenium	78-2	840	690	797	776	9.95	cps
Silicon	28-1	8607286	8700157	8697757	8668400	0.61	cps
Silver	107-1	51531	52387	51822	51914	0.84	cps
Silver	109-1	48367	50899	49691	49652	2.55	cps
Sodium	23-2	125211	126692	126924	126276	0.74	cps
Strontium	86-1	117350	119211	117877	118146	0.81	cps
Strontium	88-1	1006085	1025654	1028089	1019943	1.18	cps
Sulfur	34-1	209904	210887	209982	210258	0.26	cps
Terbium	159-1	15289435	14686655	13608649	14528246	5.86	cps
Terbium	159-2	10397200	10333941	10250909	10327350	0.71	cps
Thallium	203-1	29034	29141	29749	29308	1.32	cps
Thallium	205-1	68608	69114	69211	68978	0.47	cps
Tin	118-1	37883	38418	38084	38128	0.71	cps
Titanium	47-1	127246	129972	131361	129526	1.62	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-18DL2X5

Instrumnet Name :

P7

Client Sample ID :

ME28Q4S

Dilution Factor :

5

Date & Time Acquired :

2024-12-23 16:27:36

DataFile Name :

090SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7085	7069	6975	7043	0.84	cps
Vanadium	51-2	147475	147607	147994	147692	0.18	cps
Yttrium	89-1	14517159	14146891	13246320	13970124	4.68	cps
Yttrium	89-2	3789416	3772038	3762436	3774630	0.36	cps
Zinc	66-2	5035077	4947853	4978425	4987118	0.89	cps
Zirconium	90-1	13927	14240	13857	14008	1.46	cps
Zirconium	91-1	3090	3287	3207	3195	3.10	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-15DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q3 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:30:41 DataFile Name : 091SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1324385	1310774	1300604	1311921	0.91	cps
Antimony	121-1	23142	24117	23476	23578	2.10	cps
Arsenic	75-2	9070	9340	9426	9279	2.01	cps
Barium	135-1	451808	455972	457000	454927	0.60	cps
Barium	137-1	783995	793772	787016	788261	0.64	cps
Beryllium	9-1	1363	1510	1520	1465	5.99	cps
Bismuth	209-1	8518081	8825204	8640414	8661233	1.79	cps
Bismuth	209-2	7341433	7232420	7291401	7288418	0.75	cps
Bromine	81-1	17230	17924	17791	17648	2.09	cps
Bromine	81-2	613	517	593	574	8.88	cps
Cadmium	108-1	1157	1327	1320	1268	7.59	cps
Cadmium	106-1	5211	5308	5114	5211	1.86	cps
Cadmium	111-1	18223	18382	18732	18445	1.41	cps
Calcium	43-1	1669985	1679213	1698770	1682656	0.87	cps
Calcium	44-1	26778329	27243110	27099829	27040423	0.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1405253	1394371	1402369	1400664	0.40	cps
Cobalt	59-2	59939	59895	59404	59746	0.50	cps
Copper	63-2	362861	361900	360808	361856	0.28	cps
Dysprosium	156-1	9290	9600	9453	9448	1.64	cps
Dysprosium	156-2	7816	7896	8186	7966	2.45	cps
Erbium	164-1	9433	9830	9677	9647	2.07	cps
Erbium	164-2	6722	6745	6795	6754	0.55	cps
Gadolinium	160-1	8886	8856	8896	8880	0.23	cps
Gadolinium	160-2	6955	7065	6885	6968	1.30	cps
Holmium	165-1	14763912	14699956	14509364	14657744	0.90	cps
Holmium	165-2	10386914	10348292	10203814	10313007	0.94	cps
Indium	115-1	11916452	12184531	11863401	11988128	1.44	cps
Indium	115-2	4368962	4310774	4287655	4322464	0.97	cps
Iron	56-2	792837162	787694655	789249855	789927224	0.33	cps
Iron	57-2	19704420	19490035	19512131	19568862	0.60	cps
Iron	54-2	43105688	42851974	42748483	42902048	0.43	cps
Krypton	83-1	233	227	307	256	17.37	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-15DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q3 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:30:41 DataFile Name : 091SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9371056	9547004	9545229	9487763	1.07	cps
Lead	207-1	7842250	8117067	7906809	7955375	1.81	cps
Lead	208-1	36345207	37321393	36897775	36854791	1.33	cps
Lithium	6-1	1710308	1725854	1718033	1718065	0.45	cps
Magnesium	24-2	3786354	3727131	3694846	3736110	1.24	cps
Manganese	55-2	28907104	28852952	28933911	28897989	0.14	cps
Molybdenum	94-1	53735	55100	54006	54280	1.33	cps
Molybdenum	95-1	69504	69819	71061	70128	1.17	cps
Molybdenum	96-1	87181	87442	87999	87541	0.48	cps
Molybdenum	97-1	44110	44277	43722	44036	0.65	cps
Molybdenum	98-1	112952	113006	112452	112803	0.27	cps
Neodymium	150-1	14915	14868	14501	14761	1.53	cps
Neodymium	150-2	8850	8706	8893	8816	1.11	cps
Nickel	60-2	298443	297971	297228	297881	0.21	cps
Phosphorus	31-2	7999	7949	8279	8076	2.20	cps
Potassium	39-2	564048	565788	561975	563937	0.34	cps
Rhodium	103-1	11099072	11081703	10940939	11040571	0.79	cps
Rhodium	103-2	6607868	6587042	6548969	6581293	0.45	cps
Scandium	45-1	6652964	6634746	6579489	6622400	0.58	cps
Scandium	45-2	558851	559388	556106	558115	0.32	cps
Selenium	82-1	252	236	190	226	14.33	cps
Selenium	77-2	33	30	37	33	10.01	cps
Selenium	78-2	503	510	507	507	0.66	cps
Silicon	28-1	19879518	20002520	20073446	19985161	0.49	cps
Silver	107-1	46330	46815	46277	46474	0.64	cps
Silver	109-1	44632	44552	44274	44486	0.42	cps
Sodium	23-2	263254	262827	264326	263469	0.29	cps
Strontium	86-1	278866	284853	284751	282823	1.21	cps
Strontium	88-1	2490467	2561626	2528294	2526796	1.41	cps
Sulfur	34-1	223984	225908	225015	224969	0.43	cps
Terbium	159-1	15004944	15187138	14902009	15031364	0.96	cps
Terbium	159-2	10152198	10365599	10198333	10238710	1.10	cps
Thallium	203-1	15886	15856	15899	15880	0.14	cps
Thallium	205-1	37529	38635	38257	38140	1.47	cps
Tin	118-1	95765	96067	96567	96133	0.42	cps
Titanium	47-1	479217	487880	485212	484103	0.92	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-15DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q3 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:30:41 DataFile Name : 091SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	15586	15616	15482	15561	0.45	cps
Vanadium	51-2	145126	143743	143777	144215	0.55	cps
Yttrium	89-1	14118412	14505894	14265961	14296756	1.37	cps
Yttrium	89-2	3746200	3745368	3708526	3733364	0.58	cps
Zinc	66-2	2600987	2599473	2559284	2586581	0.91	cps
Zirconium	90-1	37063	38250	38216	37843	1.78	cps
Zirconium	91-1	8690	8349	8309	8449	2.47	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q4 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:33:45 DataFile Name : 092SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1392913	1401775	1388213	1394300	0.49	cps
Antimony	121-1	22778	22875	22604	22753	0.60	cps
Arsenic	75-2	9793	9496	9560	9617	1.63	cps
Barium	135-1	397352	400971	402369	400231	0.65	cps
Barium	137-1	690591	697787	693628	694002	0.52	cps
Beryllium	9-1	1433	1413	1390	1412	1.54	cps
Bismuth	209-1	9537286	9250976	9283983	9357415	1.67	cps
Bismuth	209-2	7791638	7815135	7793907	7800227	0.17	cps
Bromine	81-1	17193	17284	16753	17077	1.66	cps
Bromine	81-2	620	600	567	596	4.52	cps
Cadmium	108-1	1733	2097	1753	1861	10.97	cps
Cadmium	106-1	6251	5941	6218	6137	2.77	cps
Cadmium	111-1	17516	16972	17789	17426	2.39	cps
Calcium	43-1	1738273	1758664	1751420	1749453	0.59	cps
Calcium	44-1	28017873	28288507	27853790	28053390	0.78	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1360969	1369697	1336164	1355610	1.28	cps
Cobalt	59-2	60602	58644	59808	59685	1.65	cps
Copper	63-2	345084	346057	345253	345465	0.15	cps
Dysprosium	156-1	9320	9343	9620	9428	1.77	cps
Dysprosium	156-2	7992	8146	8086	8075	0.96	cps
Erbium	164-1	9844	9814	9733	9797	0.58	cps
Erbium	164-2	7075	6938	7169	7061	1.64	cps
Gadolinium	160-1	9313	9113	9026	9151	1.61	cps
Gadolinium	160-2	7205	7135	7192	7177	0.52	cps
Holmium	165-1	14356193	14443234	14373254	14390894	0.32	cps
Holmium	165-2	10197504	10337007	10295354	10276622	0.70	cps
Indium	115-1	11998878	12022866	11865409	11962384	0.71	cps
Indium	115-2	4294662	4253290	4288104	4278685	0.52	cps
Iron	56-2	772186788	765482042	768341589	768670140	0.44	cps
Iron	57-2	18871922	18965045	18699813	18845593	0.71	cps
Iron	54-2	41745415	41409044	40977217	41377225	0.93	cps
Krypton	83-1	213	247	327	262	22.21	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q4 Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:33:45 DataFile Name : 092SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	27766453	27636961	27130361	27511258	1.22	cps
Lead	207-1	23525301	23608015	23740324	23624547	0.46	cps
Lead	208-1	108652322	108682564	108646943	108660609	0.02	cps
Lithium	6-1	1728554	1659074	1690969	1692866	2.05	cps
Magnesium	24-2	4561824	4551128	4535837	4549596	0.29	cps
Manganese	55-2	22412847	22526495	22126166	22355169	0.92	cps
Molybdenum	94-1	47396	48734	48202	48111	1.40	cps
Molybdenum	95-1	60966	60939	62064	61323	1.05	cps
Molybdenum	96-1	76860	77742	76033	76878	1.11	cps
Molybdenum	97-1	37745	38227	38166	38046	0.69	cps
Molybdenum	98-1	97365	98086	97482	97644	0.40	cps
Neodymium	150-1	15362	15505	14714	15194	2.77	cps
Neodymium	150-2	9276	9196	9260	9244	0.46	cps
Nickel	60-2	268324	266875	268598	267932	0.35	cps
Phosphorus	31-2	7759	7519	7345	7541	2.75	cps
Potassium	39-2	625302	621065	621128	622498	0.39	cps
Rhodium	103-1	11021979	10814721	10925008	10920569	0.95	cps
Rhodium	103-2	6586621	6539355	6524898	6550291	0.49	cps
Scandium	45-1	6667889	6482260	6549303	6566484	1.43	cps
Scandium	45-2	552810	547262	547272	549114	0.58	cps
Selenium	82-1	304	245	176	241	26.56	cps
Selenium	77-2	33	40	37	37	9.10	cps
Selenium	78-2	427	430	493	450	8.35	cps
Silicon	28-1	20567902	20344192	20115508	20342534	1.11	cps
Silver	107-1	43358	43274	43475	43369	0.23	cps
Silver	109-1	41248	41687	40918	41284	0.93	cps
Sodium	23-2	279406	278083	277564	278351	0.34	cps
Strontium	86-1	294121	294964	293469	294185	0.25	cps
Strontium	88-1	2677542	2641979	2650567	2656696	0.70	cps
Sulfur	34-1	233613	235775	235853	235080	0.54	cps
Terbium	159-1	15002654	14868736	14633516	14834969	1.26	cps
Terbium	159-2	9955040	10232094	10280032	10155722	1.73	cps
Thallium	203-1	13890	13684	13734	13769	0.78	cps
Thallium	205-1	32071	32709	32352	32377	0.99	cps
Tin	118-1	93078	94594	93830	93834	0.81	cps
Titanium	47-1	322211	322381	317193	320595	0.92	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16DLX2

Instrumnet Name :

P7

Client Sample ID :

ME28Q4

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 16:33:45

DataFile Name :

092SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17448	17936	17905	17763	1.54	cps
Vanadium	51-2	119437	119014	119011	119154	0.21	cps
Yttrium	89-1	14456630	14323198	14188788	14322872	0.94	cps
Yttrium	89-2	3741244	3737853	3678514	3719203	0.95	cps
Zinc	66-2	12221997	12168578	12094291	12161622	0.53	cps
Zirconium	90-1	35092	35954	34577	35208	1.98	cps
Zirconium	91-1	7845	7926	7735	7835	1.22	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-17DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q4D Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:36:52 DataFile Name : 093SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1386003	1365703	1379069	1376925	0.75	cps
Antimony	121-1	22665	21676	22341	22227	2.27	cps
Arsenic	75-2	9166	9173	9093	9144	0.49	cps
Barium	135-1	399141	398126	397041	398102	0.26	cps
Barium	137-1	690797	688166	684695	687886	0.44	cps
Beryllium	9-1	1540	1377	1397	1438	6.20	cps
Bismuth	209-1	9295097	9318906	9157863	9257288	0.94	cps
Bismuth	209-2	7831951	7814739	7872742	7839811	0.38	cps
Bromine	81-1	17334	17594	16806	17245	2.33	cps
Bromine	81-2	613	560	633	602	6.29	cps
Cadmium	108-1	1947	1780	1843	1857	4.53	cps
Cadmium	106-1	5881	5938	6145	5988	2.32	cps
Cadmium	111-1	16904	17411	17839	17385	2.69	cps
Calcium	43-1	1770602	1752177	1738588	1753789	0.92	cps
Calcium	44-1	28300271	28208821	27802098	28103730	0.94	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1383689	1351409	1348907	1361335	1.43	cps
Cobalt	59-2	59072	59333	59219	59208	0.22	cps
Copper	63-2	344523	344028	344160	344237	0.07	cps
Dysprosium	156-1	9390	9286	9593	9423	1.66	cps
Dysprosium	156-2	8049	8212	7896	8052	1.97	cps
Erbium	164-1	10220	9507	10090	9939	3.83	cps
Erbium	164-2	7042	7252	7492	7262	3.10	cps
Gadolinium	160-1	9507	9183	9303	9331	1.75	cps
Gadolinium	160-2	7465	7202	7135	7267	2.40	cps
Holmium	165-1	14389362	14340599	14361416	14363792	0.17	cps
Holmium	165-2	10080057	10274175	10133891	10162708	0.99	cps
Indium	115-1	11933532	11901956	11756732	11864073	0.79	cps
Indium	115-2	4242412	4200216	4214845	4219158	0.51	cps
Iron	56-2	761349189	768108122	764177935	764545082	0.44	cps
Iron	57-2	18820752	18967330	18712341	18833474	0.68	cps
Iron	54-2	40783284	41983410	41451106	41405933	1.45	cps
Krypton	83-1	307	243	237	262	14.73	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-17DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q4D Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:36:52 DataFile Name : 093SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	27873989	27695555	27574044	27714529	0.54	cps
Lead	207-1	23765320	23656939	23404495	23608918	0.78	cps
Lead	208-1	109231403	109550497	107968663	108916854	0.77	cps
Lithium	6-1	1703280	1702712	1700697	1702230	0.08	cps
Magnesium	24-2	4487754	4514808	4496057	4499540	0.31	cps
Manganese	55-2	21949048	22414766	22185025	22182946	1.05	cps
Molybdenum	94-1	48988	49209	47988	48729	1.33	cps
Molybdenum	95-1	61217	61331	60658	61069	0.59	cps
Molybdenum	96-1	77132	76525	76093	76583	0.68	cps
Molybdenum	97-1	37769	38798	37715	38094	1.60	cps
Molybdenum	98-1	98338	98469	98093	98300	0.19	cps
Neodymium	150-1	15021	15328	15035	15128	1.15	cps
Neodymium	150-2	9753	9477	9063	9431	3.68	cps
Nickel	60-2	267675	268901	267608	268061	0.27	cps
Phosphorus	31-2	7492	7355	7098	7315	2.73	cps
Potassium	39-2	616864	622258	614876	617999	0.62	cps
Rhodium	103-1	11014190	10893550	10915183	10940974	0.59	cps
Rhodium	103-2	6521108	6428716	6466052	6471959	0.72	cps
Scandium	45-1	6608932	6538722	6454106	6533920	1.19	cps
Scandium	45-2	547659	545860	545291	546270	0.23	cps
Selenium	82-1	179	226	218	207	12.19	cps
Selenium	77-2	27	27	40	31	24.74	cps
Selenium	78-2	470	523	493	496	5.40	cps
Silicon	28-1	20450622	20355711	20091057	20299130	0.92	cps
Silver	107-1	43324	42258	43104	42895	1.31	cps
Silver	109-1	41355	41041	41232	41209	0.38	cps
Sodium	23-2	274605	276420	274042	275022	0.45	cps
Strontium	86-1	298575	297559	295178	297104	0.59	cps
Strontium	88-1	2695222	2635587	2651272	2660694	1.16	cps
Sulfur	34-1	234651	231505	230198	232118	0.99	cps
Terbium	159-1	14865920	14806734	14867084	14846579	0.23	cps
Terbium	159-2	10232244	10202915	9987486	10140882	1.32	cps
Thallium	203-1	14211	13100	13350	13554	4.30	cps
Thallium	205-1	32753	33047	32308	32703	1.14	cps
Tin	118-1	93913	94541	93940	94131	0.38	cps
Titanium	47-1	321670	322934	320172	321592	0.43	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-17DLX2

Instrumnet Name :

P7

Client Sample ID :

ME28Q4D

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 16:36:52

DataFile Name :

093SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	18196	17889	17952	18012	0.90	cps
Vanadium	51-2	118739	118433	118850	118674	0.18	cps
Yttrium	89-1	14342711	14246431	14169780	14252974	0.61	cps
Yttrium	89-2	3757937	3684839	3679622	3707466	1.18	cps
Zinc	66-2	12065131	12020349	12069139	12051540	0.22	cps
Zirconium	90-1	34841	36295	35610	35582	2.04	cps
Zirconium	91-1	7792	7842	8132	7922	2.32	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16LDLX10 Instrumnet Name : P7
Client Sample ID : ME28Q4L Dilution Factor : 10
Date & Time Acquired : 2024-12-23 16:40:05 DataFile Name : 094SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	269113	269564	269575	269417	0.10	cps
Antimony	121-1	4387	4381	4454	4407	0.92	cps
Arsenic	75-2	1873	1807	1803	1828	2.16	cps
Barium	135-1	78692	79282	79303	79092	0.44	cps
Barium	137-1	136979	137483	137355	137272	0.19	cps
Beryllium	9-1	277	320	330	309	9.18	cps
Bismuth	209-1	8862395	8568633	8503159	8644729	2.21	cps
Bismuth	209-2	7415898	7328051	7203658	7315869	1.46	cps
Bromine	81-1	15321	15255	14984	15187	1.17	cps
Bromine	81-2	220	197	207	208	5.63	cps
Cadmium	108-1	350	427	450	409	12.79	cps
Cadmium	106-1	3821	3824	3877	3841	0.83	cps
Cadmium	111-1	5486	5205	5283	5325	2.73	cps
Calcium	43-1	356259	359826	362550	359545	0.88	cps
Calcium	44-1	5484937	5563027	5405983	5484649	1.43	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	267021	265491	266081	266198	0.29	cps
Cobalt	59-2	12272	11588	11788	11883	2.96	cps
Copper	63-2	73868	74048	74159	74025	0.20	cps
Dysprosium	156-1	1880	1850	1873	1868	0.84	cps
Dysprosium	156-2	1543	1630	1633	1602	3.18	cps
Erbium	164-1	1937	1953	2017	1969	2.14	cps
Erbium	164-2	1330	1487	1357	1391	6.03	cps
Gadolinium	160-1	1850	1817	1763	1810	2.42	cps
Gadolinium	160-2	1853	1747	1847	1816	3.29	cps
Holmium	165-1	14454215	14036220	13918373	14136269	1.99	cps
Holmium	165-2	10228443	10138752	9932185	10099793	1.50	cps
Indium	115-1	12133745	11896937	11673158	11901280	1.94	cps
Indium	115-2	4277502	4267542	4256512	4267185	0.25	cps
Iron	56-2	153975604	154042261	153070351	153696072	0.35	cps
Iron	57-2	3769051	3731912	3712315	3737760	0.77	cps
Iron	54-2	8348347	8277150	8292804	8306100	0.45	cps
Krypton	83-1	190	260	260	237	17.08	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16LDLX10 Instrumnet Name : P7
Client Sample ID : ME28Q4L Dilution Factor : 10
Date & Time Acquired : 2024-12-23 16:40:05 DataFile Name : 094SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5560756	5465419	5452405	5492860	1.08	cps
Lead	207-1	4742826	4717725	4726393	4728981	0.27	cps
Lead	208-1	21849413	21690246	21598334	21712664	0.59	cps
Lithium	6-1	1742675	1692276	1671695	1702215	2.15	cps
Magnesium	24-2	881945	875241	874687	877291	0.46	cps
Manganese	55-2	4454652	4456169	4444793	4451871	0.14	cps
Molybdenum	94-1	9713	9607	9823	9714	1.12	cps
Molybdenum	95-1	11885	12192	12038	12038	1.27	cps
Molybdenum	96-1	15368	15442	14798	15202	2.32	cps
Molybdenum	97-1	7025	7555	7505	7362	3.98	cps
Molybdenum	98-1	18809	19350	19623	19261	2.15	cps
Neodymium	150-1	2857	2957	3024	2946	2.85	cps
Neodymium	150-2	1760	1973	1857	1863	5.73	cps
Nickel	60-2	54883	54676	53736	54432	1.12	cps
Phosphorus	31-2	1477	1613	1607	1566	4.92	cps
Potassium	39-2	161462	161338	163666	162155	0.81	cps
Rhodium	103-1	11038454	10754594	10729855	10840968	1.58	cps
Rhodium	103-2	6515265	6505616	6519336	6513406	0.11	cps
Scandium	45-1	6491341	6432356	6260152	6394616	1.88	cps
Scandium	45-2	538357	537847	537998	538067	0.05	cps
Selenium	82-1	177	78	62	106	58.61	cps
Selenium	77-2	3	3	3	3	0.00	cps
Selenium	78-2	430	433	497	453	8.29	cps
Silicon	28-1	4609752	4648668	4691331	4649917	0.88	cps
Silver	107-1	8272	8366	9010	8549	4.69	cps
Silver	109-1	8342	8312	8119	8258	1.47	cps
Sodium	23-2	76421	76324	76683	76476	0.24	cps
Strontium	86-1	58800	58325	57990	58372	0.70	cps
Strontium	88-1	503649	507712	504830	505397	0.41	cps
Sulfur	34-1	191451	190599	191801	191284	0.32	cps
Terbium	159-1	14888208	14371240	14722106	14660518	1.80	cps
Terbium	159-2	10185621	9917880	10023144	10042215	1.34	cps
Thallium	203-1	2940	2970	2777	2896	3.59	cps
Thallium	205-1	6952	6979	6825	6918	1.18	cps
Tin	118-1	19550	19513	19877	19647	1.02	cps
Titanium	47-1	62542	62890	63000	62811	0.38	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16LDLX10

Instrumnet Name :

P7

Client Sample ID :

ME28Q4L

Dilution Factor :

10

Date & Time Acquired :

2024-12-23 16:40:05

DataFile Name :

094SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3464	3831	3287	3527	7.86	cps
Vanadium	51-2	23028	23502	23111	23213	1.09	cps
Yttrium	89-1	14159346	13710650	13561111	13810369	2.25	cps
Yttrium	89-2	3601796	3558286	3592227	3584103	0.64	cps
Zinc	66-2	2475501	2464370	2439802	2459891	0.74	cps
Zirconium	90-1	7242	7055	7189	7162	1.34	cps
Zirconium	91-1	1653	1650	1647	1650	0.20	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-18DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q4S Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:43:13 DataFile Name : 095SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1414713	1440900	1386859	1414157	1.91	cps
Antimony	121-1	154578	156427	158243	156416	1.17	cps
Arsenic	75-2	12652	11938	12075	12222	3.10	cps
Barium	135-1	1049685	1059983	1055007	1054892	0.49	cps
Barium	137-1	1920669	1968922	1929097	1939563	1.33	cps
Beryllium	9-1	9286	9149	9396	9277	1.33	cps
Bismuth	209-1	9377617	9312829	9247479	9312641	0.70	cps
Bismuth	209-2	6854703	7634258	7851827	7446929	7.04	cps
Bromine	81-1	16222	16730	16750	16567	1.80	cps
Bromine	81-2	580	593	660	611	7.01	cps
Cadmium	108-1	3030	3034	3250	3105	4.06	cps
Cadmium	106-1	7642	7629	7889	7720	1.90	cps
Cadmium	111-1	34332	34116	35008	34485	1.35	cps
Calcium	43-1	1719947	1725594	1751548	1732363	0.97	cps
Calcium	44-1	27385593	27228316	27557982	27390630	0.60	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1450823	1443006	1443880	1445903	0.30	cps
Cobalt	59-2	489767	484626	480493	484962	0.96	cps
Copper	63-2	491520	484809	480095	485475	1.18	cps
Dysprosium	156-1	9460	9253	9647	9453	2.08	cps
Dysprosium	156-2	8099	8046	7989	8045	0.68	cps
Erbium	164-1	9867	9900	10254	10007	2.14	cps
Erbium	164-2	7392	7145	6862	7133	3.72	cps
Gadolinium	160-1	9457	9253	8940	9216	2.83	cps
Gadolinium	160-2	7582	7162	7322	7355	2.88	cps
Holmium	165-1	14608701	14623360	14389972	14540678	0.90	cps
Holmium	165-2	8920321	9869410	10180271	9656667	6.80	cps
Indium	115-1	11709508	12014989	11740988	11821828	1.42	cps
Indium	115-2	3660556	4053411	4186811	3966926	6.90	cps
Iron	56-2	765133082	756038522	756777589	759316398	0.67	cps
Iron	57-2	18786634	18495748	18350811	18544398	1.20	cps
Iron	54-2	41295264	41096553	40199804	40863874	1.43	cps
Krypton	83-1	260	267	230	252	7.74	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-18DLX2 Instrumnet Name : P7
Client Sample ID : ME28Q4S Dilution Factor : 2
Date & Time Acquired : 2024-12-23 16:43:13 DataFile Name : 095SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	27266265	27495480	27383222	27381656	0.42	cps
Lead	207-1	23546584	23259259	23335381	23380408	0.64	cps
Lead	208-1	107989112	107992870	107724476	107902153	0.14	cps
Lithium	6-1	1735893	1741561	1727215	1734889	0.42	cps
Magnesium	24-2	4498022	4465593	4477786	4480467	0.37	cps
Manganese	55-2	22333295	22157491	22150187	22213658	0.47	cps
Molybdenum	94-1	47115	47838	47309	47421	0.79	cps
Molybdenum	95-1	59413	60491	60400	60102	0.99	cps
Molybdenum	96-1	74050	75805	75909	75254	1.39	cps
Molybdenum	97-1	36412	38009	37414	37279	2.17	cps
Molybdenum	98-1	94372	95476	96751	95533	1.25	cps
Neodymium	150-1	15175	15355	15005	15178	1.15	cps
Neodymium	150-2	9450	8900	8789	9046	3.91	cps
Nickel	60-2	373274	372342	365433	370349	1.16	cps
Phosphorus	31-2	7105	7429	7332	7288	2.28	cps
Potassium	39-2	615159	612121	604954	610745	0.86	cps
Rhodium	103-1	10802754	10913604	10768384	10828247	0.70	cps
Rhodium	103-2	5629366	6197104	6514792	6113754	7.34	cps
Scandium	45-1	6475154	6470838	6425769	6457254	0.42	cps
Scandium	45-2	472888	517386	537811	509362	6.52	cps
Selenium	82-1	2435	2392	2352	2393	1.75	cps
Selenium	77-2	313	283	230	276	15.32	cps
Selenium	78-2	1287	1247	1217	1250	2.81	cps
Silicon	28-1	19886997	19940805	20059300	19962367	0.44	cps
Silver	107-1	125393	129121	126535	127016	1.50	cps
Silver	109-1	122148	123124	121900	122391	0.53	cps
Sodium	23-2	273587	269076	268781	270481	1.00	cps
Strontium	86-1	287557	292642	292404	290868	0.99	cps
Strontium	88-1	2601350	2622083	2647263	2623565	0.88	cps
Sulfur	34-1	229484	231281	229487	230084	0.45	cps
Terbium	159-1	14755624	14928016	14703555	14795731	0.79	cps
Terbium	159-2	8765779	9626818	10044850	9479149	6.88	cps
Thallium	203-1	72917	73044	74485	73482	1.19	cps
Thallium	205-1	171014	174301	174409	173241	1.11	cps
Tin	118-1	90750	92927	92967	92215	1.38	cps
Titanium	47-1	312632	317060	317775	315823	0.88	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-18DLX2

Instrumnet Name :

P7

Client Sample ID :

ME28Q4S

Dilution Factor :

2

Date & Time Acquired :

2024-12-23 16:43:13

DataFile Name :

095SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17622	18233	17882	17912	1.71	cps
Vanadium	51-2	362362	356835	350815	356671	1.62	cps
Yttrium	89-1	13980367	14109120	14074185	14054557	0.47	cps
Yttrium	89-2	3186275	3471005	3671422	3442901	7.08	cps
Zinc	66-2	12296490	11986921	11761601	12015004	2.24	cps
Zirconium	90-1	33775	34373	34708	34285	1.38	cps
Zirconium	91-1	7585	7755	7765	7702	1.31	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV046 Instrumnet Name : P7
Client Sample ID : CCV046 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 16:46:17 DataFile Name : 096CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	12342824	12341149	12417342	12367105	0.35	cps
Antimony	121-1	5818610	5793544	5747713	5786622	0.62	cps
Arsenic	75-2	267211	267646	268294	267717	0.20	cps
Barium	135-1	7623952	7501186	7449964	7525034	1.19	cps
Barium	137-1	12909771	12754154	12691434	12785120	0.88	cps
Beryllium	9-1	675845	676637	673574	675352	0.24	cps
Bismuth	209-1	7693905	7678150	7567202	7646419	0.90	cps
Bismuth	209-2	6368742	6381875	6404706	6385108	0.29	cps
Bromine	81-1	12946	12515	13116	12859	2.41	cps
Bromine	81-2	137	93	137	122	20.47	cps
Cadmium	108-1	103150	103120	101109	102459	1.14	cps
Cadmium	106-1	146698	145170	144945	145604	0.66	cps
Cadmium	111-1	1374231	1362972	1355948	1364383	0.68	cps
Calcium	43-1	7708151	7561468	7444340	7571319	1.75	cps
Calcium	44-1	122737102	120103342	119718942	120853128	1.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2137672	2115483	2160482	2137879	1.05	cps
Cobalt	59-2	3330958	3363080	3364528	3352855	0.57	cps
Copper	63-2	23585649	23840423	23500655	23642242	0.75	cps
Dysprosium	156-1	257	240	270	256	5.88	cps
Dysprosium	156-2	480	470	467	472	1.47	cps
Erbium	164-1	260	263	270	264	1.93	cps
Erbium	164-2	190	160	287	212	31.19	cps
Gadolinium	160-1	207	300	280	262	18.74	cps
Gadolinium	160-2	587	570	630	596	5.20	cps
Holmium	165-1	13641063	13505354	13421381	13522599	0.82	cps
Holmium	165-2	9445087	9598525	9422631	9488748	1.01	cps
Indium	115-1	10398146	10254694	10299346	10317395	0.71	cps
Indium	115-2	3642666	3651408	3701555	3665210	0.87	cps
Iron	56-2	508297326	514270206	507115592	509894375	0.75	cps
Iron	57-2	12499894	12567149	12675866	12580970	0.71	cps
Iron	54-2	27562550	27362117	27210655	27378441	0.64	cps
Krypton	83-1	197	160	213	190	14.36	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV046 Instrumnet Name : P7
Client Sample ID : CCV046 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 16:46:17 DataFile Name : 096CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21692934	21883023	22005287	21860415	0.72	cps
Lead	207-1	19659690	19765470	19841300	19755487	0.46	cps
Lead	208-1	88400417	89912404	89841338	89384719	0.95	cps
Lithium	6-1	1631699	1609404	1643453	1628185	1.06	cps
Magnesium	24-2	95863982	95417699	95594015	95625232	0.24	cps
Manganese	55-2	17225560	17296460	17095306	17205775	0.59	cps
Molybdenum	94-1	20247914	20142020	19925939	20105291	0.82	cps
Molybdenum	95-1	29172479	29046652	28714067	28977733	0.82	cps
Molybdenum	96-1	32052015	31649360	31568615	31756663	0.82	cps
Molybdenum	97-1	18265276	18148602	17891033	18101637	1.06	cps
Molybdenum	98-1	47067796	46916163	45685416	46556458	1.63	cps
Neodymium	150-1	453	480	417	450	7.07	cps
Neodymium	150-2	177	133	173	161	14.97	cps
Nickel	60-2	793793	791326	795642	793587	0.27	cps
Phosphorus	31-2	108974	108766	107423	108388	0.78	cps
Potassium	39-2	60302249	60231442	60989549	60507747	0.69	cps
Rhodium	103-1	9363310	9108276	8975917	9149168	2.15	cps
Rhodium	103-2	5416703	5424861	5504673	5448746	0.89	cps
Scandium	45-1	5869722	5707804	5708477	5762001	1.62	cps
Scandium	45-2	469185	468784	471244	469738	0.28	cps
Selenium	82-1	83784	82618	82572	82991	0.83	cps
Selenium	77-2	8129	8369	8359	8286	1.64	cps
Selenium	78-2	27846	27970	27612	27809	0.65	cps
Silicon	28-1	3340146	3323748	3315855	3326583	0.37	cps
Silver	107-1	7183797	6944751	6948933	7025827	1.95	cps
Silver	109-1	6819711	6730360	6749691	6766587	0.69	cps
Sodium	23-2	154458378	154501644	156172904	155044309	0.63	cps
Strontium	86-1	1861216	1831985	1855823	1849675	0.84	cps
Strontium	88-1	16295117	15909074	16082125	16095439	1.20	cps
Sulfur	34-1	581617	569625	564895	572046	1.51	cps
Terbium	159-1	13952907	13815384	13760199	13842830	0.72	cps
Terbium	159-2	9439761	9345369	9444530	9409887	0.59	cps
Thallium	203-1	5672185	5625354	5705315	5667618	0.71	cps
Thallium	205-1	13281530	13234004	13397369	13304301	0.63	cps
Tin	118-1	4879437	4826721	4874434	4860197	0.60	cps
Titanium	47-1	7188702	7006969	6946769	7047480	1.79	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV046 Instrumnet Name : P7
Client Sample ID : CCV046 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 16:46:17 DataFile Name : 096CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17885508	18217268	18094058	18065611	0.93	cps
Vanadium	51-2	1911690	1922196	1928306	1920731	0.44	cps
Yttrium	89-1	12684912	12261647	12390302	12445621	1.74	cps
Yttrium	89-2	3139390	3168652	3216874	3174972	1.23	cps
Zinc	66-2	3951346	3890616	3959758	3933907	0.96	cps
Zirconium	90-1	9920002	9823527	9879245	9874258	0.49	cps
Zirconium	91-1	2196199	2198577	2194318	2196365	0.10	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB046 Instrumnet Name : P7
Client Sample ID : CCB046 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 16:48:59 DataFile Name : 097CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	353	263	240	286	20.96	cps
Antimony	121-1	3100	2507	2107	2571	19.44	cps
Arsenic	75-2	7	3	13	8	65.47	cps
Barium	135-1	1183	637	320	713	61.23	cps
Barium	137-1	2167	900	600	1222	68.04	cps
Beryllium	9-1	220	173	133	176	24.71	cps
Bismuth	209-1	8573795	8664597	8464282	8567558	1.17	cps
Bismuth	209-2	7361350	7327572	7227258	7305393	0.95	cps
Bromine	81-1	13666	13536	13757	13653	0.81	cps
Bromine	81-2	177	210	183	190	9.28	cps
Cadmium	108-1	23	7	17	16	53.90	cps
Cadmium	106-1	2897	3057	2984	2979	2.69	cps
Cadmium	111-1	2285	2255	2157	2232	3.00	cps
Calcium	43-1	1730	867	637	1078	53.49	cps
Calcium	44-1	28210	17984	13393	19862	38.19	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1210	1117	1213	1180	4.65	cps
Cobalt	59-2	150	177	107	144	24.46	cps
Copper	63-2	5771	5841	5554	5722	2.61	cps
Dysprosium	156-1	13	7	3	8	65.47	cps
Dysprosium	156-2	0	10	13	8	89.21	cps
Erbium	164-1	57	50	40	49	17.16	cps
Erbium	164-2	37	33	40	37	9.10	cps
Gadolinium	160-1	33	40	20	31	32.73	cps
Gadolinium	160-2	410	513	430	451	12.15	cps
Holmium	165-1	13865454	14119240	14029300	14004665	0.92	cps
Holmium	165-2	9996046	9944023	9924560	9954876	0.37	cps
Indium	115-1	11343881	11277874	11253889	11291881	0.41	cps
Indium	115-2	4074274	4047313	4039234	4053607	0.45	cps
Iron	56-2	29743	27749	27114	28202	4.86	cps
Iron	57-2	1160	1003	1087	1083	7.24	cps
Iron	54-2	2810	2594	2877	2760	5.37	cps
Krypton	83-1	260	223	250	244	7.75	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB046 Instrumnet Name : P7
Client Sample ID : CCB046 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 16:48:59 DataFile Name : 097CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4521	2990	2110	3207	38.04	cps
Lead	207-1	4004	2457	1860	2774	39.89	cps
Lead	208-1	18602	11729	8501	12944	39.86	cps
Lithium	6-1	1714251	1722715	1694312	1710426	0.85	cps
Magnesium	24-2	2244	1840	1837	1973	11.85	cps
Manganese	55-2	860	787	730	792	8.23	cps
Molybdenum	94-1	3911	2264	1540	2571	47.25	cps
Molybdenum	95-1	5231	2607	1777	3205	56.26	cps
Molybdenum	96-1	5705	2957	1930	3531	55.27	cps
Molybdenum	97-1	3377	1687	1017	2027	60.01	cps
Molybdenum	98-1	8192	4424	2930	5182	52.33	cps
Neodymium	150-1	3	3	3	3	0.00	cps
Neodymium	150-2	0	13	3	6	124.93	cps
Nickel	60-2	347	270	273	297	14.61	cps
Phosphorus	31-2	97	117	120	111	11.36	cps
Potassium	39-2	47754	48116	47290	47720	0.87	cps
Rhodium	103-1	10018335	10265667	10159064	10147689	1.22	cps
Rhodium	103-2	6179893	6216527	6094326	6163582	1.02	cps
Scandium	45-1	5760763	5860711	5835766	5819080	0.89	cps
Scandium	45-2	488470	487996	485087	487184	0.38	cps
Selenium	82-1	25	58	54	46	39.17	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	390	397	390	392	0.98	cps
Silicon	28-1	524474	530020	533084	529192	0.82	cps
Silver	107-1	1763	997	693	1151	47.91	cps
Silver	109-1	1467	860	603	977	45.39	cps
Sodium	23-2	30360	29882	28807	29683	2.68	cps
Strontium	86-1	653	540	417	537	22.06	cps
Strontium	88-1	2817	1370	953	1713	57.08	cps
Sulfur	34-1	167217	166254	171160	168210	1.55	cps
Terbium	159-1	14230337	14413281	14196707	14280108	0.82	cps
Terbium	159-2	9813273	9898277	9777785	9829778	0.63	cps
Thallium	203-1	1623	1120	977	1240	27.39	cps
Thallium	205-1	3647	2487	2157	2764	28.32	cps
Tin	118-1	2494	1870	1847	2070	17.72	cps
Titanium	47-1	1173	547	333	684	63.79	cps

LB Number :LB134068

Operator :Jaswal

Lab Sample ID :CCB046

Instrumnet Name :P7

Client Sample ID :CCB046

Dilution Factor :1

Date & Time Acquired :2024-12-23 16:48:59

DataFile Name :097CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2497	1290	763	1517	58.59	cps
Vanadium	51-2	43	23	33	33	30.00	cps
Yttrium	89-1	12754766	12811807	12821279	12795951	0.28	cps
Yttrium	89-2	3364456	3384752	3326472	3358560	0.88	cps
Zinc	66-2	467	497	460	474	4.12	cps
Zirconium	90-1	2490	1760	1440	1897	28.38	cps
Zirconium	91-1	617	397	337	450	32.76	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16A Instrumnet Name : P7
Client Sample ID : ME28Q4A Dilution Factor : 1
Date & Time Acquired : 2024-12-23 17:29:12 DataFile Name : 098SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2997948	2982396	2956550	2978965	0.70	cps
Antimony	121-1	47565	48548	47682	47932	1.12	cps
Arsenic	75-2	20030	19820	19897	19916	0.53	cps
Barium	135-1	841857	845188	838146	841730	0.42	cps
Barium	137-1	1446252	1464453	1459957	1456887	0.65	cps
Beryllium	9-1	2884	2874	2937	2898	1.18	cps
Bismuth	209-1	10169305	10017315	9968490	10051703	1.04	cps
Bismuth	209-2	8659311	8683849	8706762	8683307	0.27	cps
Bromine	81-1	20324	20608	20878	20603	1.34	cps
Bromine	81-2	1053	1007	910	990	7.38	cps
Cadmium	108-1	4231	4127	4044	4134	2.26	cps
Cadmium	106-1	9036	9356	9153	9182	1.76	cps
Cadmium	111-1	33135	34480	34433	34016	2.24	cps
Calcium	43-1	3872500	3906297	3831260	3870019	0.97	cps
Calcium	44-1	61851439	62255484	61919416	62008780	0.35	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2953245	2954350	2964719	2957438	0.21	cps
Cobalt	59-2	130266	129224	127782	129090	0.97	cps
Copper	63-2	2442897	2407335	2460844	2437025	1.12	cps
Dysprosium	156-1	19881	20201	20558	20214	1.68	cps
Dysprosium	156-2	17004	17087	17324	17138	0.97	cps
Erbium	164-1	21046	20672	21430	21049	1.80	cps
Erbium	164-2	15435	14938	15062	15145	1.71	cps
Gadolinium	160-1	18859	19537	19647	19348	2.20	cps
Gadolinium	160-2	15212	15345	15202	15253	0.53	cps
Holmium	165-1	14848133	14443787	14227003	14506308	2.17	cps
Holmium	165-2	10608540	10436973	10521594	10522369	0.82	cps
Indium	115-1	12447521	12093871	12017691	12186361	1.88	cps
Indium	115-2	4341045	4415559	4321180	4359261	1.14	cps
Iron	56-2	1669988935	1683888988	1676884242	1676920722	0.41	cps
Iron	57-2	41563344	41220077	41376820	41386747	0.42	cps
Iron	54-2	89926899	91376109	90294569	90532525	0.83	cps
Krypton	83-1	227	330	310	289	18.97	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : P5154-16A Instrumnet Name : P7
Client Sample ID : ME28Q4A Dilution Factor : 1
Date & Time Acquired : 2024-12-23 17:29:12 DataFile Name : 098SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	57327997	56865329	56940731	57044686	0.44	cps
Lead	207-1	48929976	48656101	48173506	48586528	0.79	cps
Lead	208-1	225415955	224385352	222531122	224110809	0.65	cps
Lithium	6-1	1641021	1618982	1603854	1621285	1.15	cps
Magnesium	24-2	9890062	9763446	9766985	9806831	0.74	cps
Manganese	55-2	48598889	49035033	48923688	48852536	0.46	cps
Molybdenum	94-1	102156	103966	102965	103029	0.88	cps
Molybdenum	95-1	129991	132227	132452	131557	1.03	cps
Molybdenum	96-1	164231	165393	165640	165088	0.46	cps
Molybdenum	97-1	81100	82300	81837	81746	0.74	cps
Molybdenum	98-1	209011	211816	211268	210698	0.71	cps
Neodymium	150-1	32223	32016	32928	32389	1.48	cps
Neodymium	150-2	19817	19197	19998	19671	2.14	cps
Nickel	60-2	1764162	1762859	1748316	1758446	0.50	cps
Phosphorus	31-2	16302	15958	15498	15919	2.53	cps
Potassium	39-2	1250834	1263053	1240964	1251617	0.88	cps
Rhodium	103-1	11234800	11096019	10983310	11104710	1.13	cps
Rhodium	103-2	6683750	6609465	6645116	6646110	0.56	cps
Scandium	45-1	7092065	6945156	6755575	6930932	2.43	cps
Scandium	45-2	570238	574200	568345	570928	0.52	cps
Selenium	82-1	518	397	383	433	17.16	cps
Selenium	77-2	67	90	97	84	18.65	cps
Selenium	78-2	610	667	580	619	7.11	cps
Silicon	28-1	42881187	43415506	43575457	43290717	0.84	cps
Silver	107-1	90238	91422	91717	91126	0.86	cps
Silver	109-1	84823	86583	86586	85997	1.18	cps
Sodium	23-2	572641	563705	561624	565990	1.03	cps
Strontium	86-1	627491	639522	639254	635422	1.08	cps
Strontium	88-1	5761105	5857780	5720963	5779949	1.22	cps
Sulfur	34-1	303504	301743	300357	301868	0.52	cps
Terbium	159-1	15197428	15017751	14796708	15003962	1.34	cps
Terbium	159-2	10460385	10430848	10440387	10443874	0.14	cps
Thallium	203-1	28543	29054	28757	28785	0.89	cps
Thallium	205-1	68669	68102	68076	68282	0.49	cps
Tin	118-1	196701	198772	197460	197644	0.53	cps
Titanium	47-1	696902	712275	700102	703093	1.15	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

P5154-16A

Instrumnet Name :

P7

Client Sample ID :

ME28Q4A

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 17:29:12

DataFile Name :

098SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	37021	37302	36406	36910	1.24	cps
Vanadium	51-2	259402	262285	259063	260250	0.68	cps
Yttrium	89-1	14953661	15015756	14627898	14865772	1.40	cps
Yttrium	89-2	3867193	3858162	3865123	3863492	0.12	cps
Zinc	66-2	26203413	25952199	25920200	26025271	0.60	cps
Zirconium	90-1	74213	75158	76080	75150	1.24	cps
Zirconium	91-1	16987	16499	16753	16746	1.46	cps

LB Number :LB134068Operator :Jaswal

Lab Sample ID :CCV047Instrumnet Name :P7

Client Sample ID :CCV047Dilution Factor :1

Date & Time Acquired :2024-12-23 17:32:11DataFile Name :099SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	12176289	12115090	12145281	12145554	0.25	cps
Antimony	121-1	5847208	5860360	5748569	5818712	1.05	cps
Arsenic	75-2	267871	266346	267327	267181	0.29	cps
Barium	135-1	7544024	7532895	7455768	7510896	0.64	cps
Barium	137-1	12865459	12988686	12783836	12879327	0.80	cps
Beryllium	9-1	684453	689621	678683	684252	0.80	cps
Bismuth	209-1	7774759	7683208	7388322	7615430	2.65	cps
Bismuth	209-2	6391344	6398587	6510098	6433343	1.03	cps
Bromine	81-1	14250	13563	12742	13518	5.58	cps
Bromine	81-2	153	117	153	141	15.00	cps
Cadmium	108-1	102136	103100	100287	101841	1.40	cps
Cadmium	106-1	147732	147409	146210	147117	0.55	cps
Cadmium	111-1	1380992	1366288	1361690	1369657	0.74	cps
Calcium	43-1	7842704	7666884	7535546	7681711	2.01	cps
Calcium	44-1	124671718	121941715	120383038	122332157	1.77	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2146149	2134494	2143772	2141472	0.29	cps
Cobalt	59-2	3338708	3343513	3376936	3353052	0.62	cps
Copper	63-2	23663813	23717305	23579167	23653428	0.29	cps
Dysprosium	156-1	280	307	273	287	6.15	cps
Dysprosium	156-2	407	470	520	466	12.20	cps
Erbium	164-1	250	280	313	281	11.27	cps
Erbium	164-2	197	160	187	181	10.47	cps
Gadolinium	160-1	250	297	287	278	8.85	cps
Gadolinium	160-2	610	623	637	623	2.14	cps
Holmium	165-1	13902932	13638680	13019781	13520464	3.35	cps
Holmium	165-2	9721863	9665036	9571589	9652830	0.79	cps
Indium	115-1	10623946	10439744	10036843	10366844	2.90	cps
Indium	115-2	3676956	3696429	3726310	3699898	0.67	cps
Iron	56-2	507510739	507987712	512067712	509188721	0.49	cps
Iron	57-2	12500491	12461037	12644539	12535356	0.77	cps
Iron	54-2	27140736	27315428	27234179	27230114	0.32	cps
Krypton	83-1	243	197	210	217	11.09	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCV047 Instrumnet Name : P7
Client Sample ID : CCV047 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 17:32:11 DataFile Name : 099SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21893551	22245427	22026698	22055226	0.81	cps
Lead	207-1	19647139	19945295	19768240	19786891	0.76	cps
Lead	208-1	88745422	90083849	89624774	89484682	0.76	cps
Lithium	6-1	1636531	1567544	1535005	1579694	3.28	cps
Magnesium	24-2	96541389	95565689	96851919	96319665	0.70	cps
Manganese	55-2	17155124	17062603	17262984	17160237	0.58	cps
Molybdenum	94-1	20437060	20205096	20045447	20229201	0.97	cps
Molybdenum	95-1	29557626	29341395	28978440	29292487	1.00	cps
Molybdenum	96-1	32149564	32158001	31714665	32007410	0.79	cps
Molybdenum	97-1	18368573	18407223	17962802	18246199	1.35	cps
Molybdenum	98-1	47258084	47307518	46052704	46872769	1.52	cps
Neodymium	150-1	480	417	453	450	7.07	cps
Neodymium	150-2	137	167	123	142	15.60	cps
Nickel	60-2	790496	788219	793025	790580	0.30	cps
Phosphorus	31-2	109437	109615	110321	109791	0.43	cps
Potassium	39-2	60462006	60846704	61144839	60817850	0.56	cps
Rhodium	103-1	9467334	9263146	8775044	9168508	3.88	cps
Rhodium	103-2	5359945	5442038	5407509	5403164	0.76	cps
Scandium	45-1	6091185	5848687	5533147	5824340	4.80	cps
Scandium	45-2	471552	474197	474133	473294	0.32	cps
Selenium	82-1	83363	83159	82990	83171	0.23	cps
Selenium	77-2	8479	8349	8379	8402	0.81	cps
Selenium	78-2	27763	27582	28287	27877	1.31	cps
Silicon	28-1	6617351	6530053	6388148	6511851	1.78	cps
Silver	107-1	7065490	7079346	6979169	7041335	0.77	cps
Silver	109-1	6813761	6750227	6702363	6755450	0.83	cps
Sodium	23-2	154578728	153370874	156472418	154807340	1.01	cps
Strontium	86-1	1901851	1858588	1823805	1861415	2.10	cps
Strontium	88-1	16500812	16312731	15965220	16259588	1.67	cps
Sulfur	34-1	595734	584265	576721	585573	1.63	cps
Terbium	159-1	14136151	13894754	13295618	13775508	3.14	cps
Terbium	159-2	9562525	9461448	9452511	9492161	0.64	cps
Thallium	203-1	5690884	5686345	5644782	5674004	0.45	cps
Thallium	205-1	13516017	13524231	13340979	13460409	0.77	cps
Tin	118-1	4831979	4835120	4805082	4824061	0.34	cps
Titanium	47-1	7204300	7091211	6942887	7079466	1.85	cps

LB Number :LB134068

Operator :Jaswal

Lab Sample ID :CCV047

Instrumnet Name :P7

Client Sample ID :CCV047

Dilution Factor :1

Date & Time Acquired :2024-12-23 17:32:11

DataFile Name :099SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17620029	17874015	18010156	17834733	1.11	cps
Vanadium	51-2	1949326	1898126	1891925	1913126	1.65	cps
Yttrium	89-1	13168821	12631931	11955642	12585465	4.83	cps
Yttrium	89-2	3203539	3246315	3217966	3222606	0.68	cps
Zinc	66-2	3902641	3878263	3958554	3913153	1.05	cps
Zirconium	90-1	10139483	9979159	9811345	9976662	1.64	cps
Zirconium	91-1	2246726	2211562	2188050	2215446	1.33	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB047 Instrumnet Name : P7
Client Sample ID : CCB047 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 17:34:55 DataFile Name : 100SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	543	410	367	440	20.93	cps
Antimony	121-1	3337	2554	2120	2670	23.10	cps
Arsenic	75-2	7	10	0	6	91.64	cps
Barium	135-1	1740	743	490	991	66.68	cps
Barium	137-1	2820	1447	833	1700	59.85	cps
Beryllium	9-1	267	190	163	207	25.96	cps
Bismuth	209-1	8681122	8438246	8518476	8545948	1.45	cps
Bismuth	209-2	7311131	7234043	7178621	7241265	0.92	cps
Bromine	81-1	12819	13219	13203	13080	1.73	cps
Bromine	81-2	177	173	153	168	7.52	cps
Cadmium	108-1	53	40	10	34	64.43	cps
Cadmium	106-1	3007	2864	2827	2899	3.28	cps
Cadmium	111-1	2508	2133	2089	2243	10.26	cps
Calcium	43-1	1927	1087	817	1277	45.34	cps
Calcium	44-1	34855	21766	16175	24265	39.51	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1180	1200	1273	1218	4.04	cps
Cobalt	59-2	217	177	103	166	34.72	cps
Copper	63-2	6105	5604	5968	5892	4.39	cps
Dysprosium	156-1	13	3	23	13	75.02	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	57	63	43	54	18.71	cps
Erbium	164-2	30	30	27	29	6.65	cps
Gadolinium	160-1	47	27	40	38	26.95	cps
Gadolinium	160-2	483	380	457	440	12.19	cps
Holmium	165-1	13757614	13687558	13390404	13611859	1.43	cps
Holmium	165-2	10100016	9899263	9782788	9927356	1.62	cps
Indium	115-1	11208843	11053129	10895335	11052436	1.42	cps
Indium	115-2	4060922	3945370	4041479	4015924	1.54	cps
Iron	56-2	38820	35462	32733	35671	8.55	cps
Iron	57-2	1137	1310	1130	1192	8.56	cps
Iron	54-2	3530	3230	3738	3500	7.29	cps
Krypton	83-1	183	193	180	186	3.74	cps

LB Number : LB134068 Operator : Jaswal
Lab Sample ID : CCB047 Instrumnet Name : P7
Client Sample ID : CCB047 Dilution Factor : 1
Date & Time Acquired : 2024-12-23 17:34:55 DataFile Name : 100SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6346	3407	2577	4110	48.18	cps
Lead	207-1	5005	3094	2077	3392	43.83	cps
Lead	208-1	24000	13863	10035	15966	45.20	cps
Lithium	6-1	1695265	1681069	1650481	1675605	1.37	cps
Magnesium	24-2	3174	2844	2337	2785	15.14	cps
Manganese	55-2	947	947	867	920	5.02	cps
Molybdenum	94-1	4681	2727	1810	3073	47.72	cps
Molybdenum	95-1	6488	3761	2247	4165	51.61	cps
Molybdenum	96-1	10503	3857	2527	5629	75.91	cps
Molybdenum	97-1	6351	2280	1263	3298	81.63	cps
Molybdenum	98-1	15981	5584	3627	8397	79.07	cps
Neodymium	150-1	10	0	0	3	173.21	cps
Neodymium	150-2	10	3	3	6	69.34	cps
Nickel	60-2	273	350	363	329	14.77	cps
Phosphorus	31-2	137	157	103	132	20.38	cps
Potassium	39-2	48751	47972	47684	48136	1.15	cps
Rhodium	103-1	10194504	10146326	10061110	10133980	0.67	cps
Rhodium	103-2	6243932	6064148	6147715	6151932	1.46	cps
Scandium	45-1	5865672	5881410	5805075	5850719	0.69	cps
Scandium	45-2	486799	484323	482984	484702	0.40	cps
Selenium	82-1	167	99	99	122	32.29	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	307	407	370	361	14.01	cps
Silicon	28-1	537824	535397	543713	538978	0.79	cps
Silver	107-1	2607	1253	790	1550	60.91	cps
Silver	109-1	2150	960	753	1288	58.55	cps
Sodium	23-2	32314	31008	30580	31301	2.89	cps
Strontium	86-1	763	593	490	616	22.42	cps
Strontium	88-1	3460	2013	1257	2244	49.91	cps
Sulfur	34-1	169309	170459	170395	170054	0.38	cps
Terbium	159-1	14041985	13985916	14011491	14013131	0.20	cps
Terbium	159-2	9752285	9846320	9832595	9810400	0.52	cps
Thallium	203-1	1867	1293	993	1385	32.05	cps
Thallium	205-1	4337	3080	2450	3289	29.21	cps
Tin	118-1	2717	2210	1700	2209	23.02	cps
Titanium	47-1	1370	827	503	900	48.66	cps

LB Number :

LB134068

Operator :

Jaswal

Lab Sample ID :

CCB047

Instrumnet Name :

P7

Client Sample ID :

CCB047

Dilution Factor :

1

Date & Time Acquired :

2024-12-23 17:34:55

DataFile Name :

100SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3280	1920	1023	2075	54.78	cps
Vanadium	51-2	27	37	50	38	30.98	cps
Yttrium	89-1	12801521	12790663	12511018	12701067	1.30	cps
Yttrium	89-2	3401543	3324287	3371808	3365879	1.16	cps
Zinc	66-2	590	610	557	586	4.60	cps
Zirconium	90-1	3127	2177	1663	2322	31.97	cps
Zirconium	91-1	713	520	360	531	33.31	cps

Prep Standard - Chemical Standard Summary

Order ID : P5154
Test : Metals CLP MS FULL

Prepbatch ID : PB165532,
Sequence ID/Qc Batch ID: LB134068,

Standard ID :
MP82128,MP83014,MP83046,MP83047,MP83498,MP83619,MP83620,MP83621,MP83622,MP83623,MP83625,MP836
26,MP83627,MP83628,MP83629,MP83630,MP83631,MP83632,MP83633,MP83634,MP83635,MP83636,

Chemical ID :
M5192,M5288,M5289,M5295,M5304,M5390,M5476,M5498,M5513,M5515,M5516,M5519,M5658,M5698,M5739,M5751
,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M5819,M5820,M5873,M5874,M596
1,M5962,M5976,M5978,M5981,M5982,M5983,M5993,M5999,M6021,M6023,M6025,M6028,M6030,M6033,M6040,M60
55,M6095,M6115,M6121,M6126,W3112,

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
641	1:4 HCL	MP82128	09/03/2024	02/08/2025	Janvi Patel	None	None	Sarabjit Jaswal
								09/03/2024

FROM 1500.00000ml of W3112 + 500.00000ml of M6040 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP83014	11/02/2024	12/31/2024	Sarabjit Jaswal	None	None	Mohan Bera
								11/04/2024

FROM 25.00000ml of M6095 + 4925.00000ml of W3112 + 50.00000ml of M6115 = Final Quantity: 5000.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3964	CONC.LCSS SPIKE	MP83046	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.25000ml of M5698 + 0.25000ml of M5798 + 0.25000ml of M5800 + 0.25000ml of M5801 + 0.25000ml of M5961 + 0.25000ml of M5981 + 0.25000ml of M5982 + 0.25000ml of M5983 + 0.25000ml of M6023 + 0.25000ml of M6025 + 0.25000ml of M6028 + 0.25000ml of M6030 + 0.50000ml of M5289 + 0.50000ml of M5658 + 0.50000ml of M5751 + 0.50000ml of M5802 + 1.25000ml of M5192 + 1.25000ml of M5799 + 1.25000ml of M5819 + 1.25000ml of M5962 + 1.25000ml of M6021 + 12.50000ml of M5498 + 12.50000ml of M5769 + 12.50000ml of M5806 + 12.52000ml of M5519 + 156.23000ml of W3112 + 2.50000ml of M5390 + 2.50000ml of M5818 + 5.00000ml of M5515 + 5.00000ml of M6095 + 5.00000ml of M6115 + 6.25000ml of M5816 + 6.25000ml of M5820 = Final Quantity: 250.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
870	ICPMS SPIKE SOL.B	MP83047	11/02/2024	12/14/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.45000ml of M5962 + 5.00000ml of M5993 + 5.00000ml of M5999 + 39.55000ml of MP83014 = Final Quantity: 50.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
169	1:1HNO3	MP83498	12/09/2024	12/28/2024	Janvi Patel	None	None	Sarabjit Jaswal
								12/09/2024

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP83619	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIP ETTE_3 (A)	Mohan Bera
								12/17/2024

FROM 25.00000ml of M6121 + 4925.00000ml of W3112 + 50.00000ml of M6126 = Final Quantity: 5000.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3947	S7(SFAM,6020,200.8)	MP83620	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.10000ml of M5476 + 1.00000ml of M5799 + 1.00000ml of M5818 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M6033 + 10.00000ml of M6126 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M5390 + 4.00000ml of M6025 + 4.90000ml of M5515 + 4.90000ml of M5519 + 5.00000ml of M6121 + 50.00000ml of M5304 + 832.50000ml of W3112 + 9.00000ml of M5698 + 9.00000ml of M5751 + 9.00000ml of M5819 + 9.00000ml of M5976 + 9.00000ml of M5978 + 9.90000ml of M5498 + 9.90000ml of M5769 + 9.90000ml of M5806 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3948	S6(SFAM,6020,200.8)	MP83621	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 48.50000ml of W3112 + 50.00000ml of MP83620 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3949	S5(SFAM,6020,200.8)	MP83622	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 73.50000ml of W3112 + 25.00000ml of MP83620 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3954	S4(SFAM,6020,200.8)	MP83623	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 86.00000ml of W3112 + 12.50000ml of MP83620 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3951	S3(SFAM, 6020,200.8)	MP83625	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP83621 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3955	S2CONC(SFAM,6020,200.8)	MP83626	12/13/2024	01/07/2025	Sarabjit Jaswal	None	None	Mohan Bera 12/17/2024

FROM 0.05000ml of M5476 + 0.05000ml of M5698 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.10000ml of M6033 + 0.25000ml of M5515 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5976 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M5390 + 0.50000ml of M5818 + 1.25000ml of M5815 + 1.25000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5769 + 2.50000ml of M5806 + 2.50000ml of M6121 + 226.25000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 250.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3956	S2(SFAM,6020,200.8)	MP83627	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 98.00000ml of W3112 + 0.50000ml of MP83626 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3957	S1(SFAM,6020,200.8)	MP83628	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP83627 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3958	ICV(SFAM)	MP83629	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 2.00000ml of M5295 + 98.00000ml of MP83619 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1142	ICSA ICPMS	MP83630	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 10.00000ml of M5873 + 90.00000ml of MP83619 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1143	ICSAB ICPMS	MP83631	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP83619 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3961	CCV	MP83632	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.20000ml of M5513 + 0.50000ml of M5476 + 0.50000ml of M5799 + 0.50000ml of M5818 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 10.00000ml of M6126 + 12.45000ml of M5515 + 12.45000ml of M5519 + 2.00000ml of M5390 + 24.95000ml of M5498 + 24.95000ml of M5516 + 24.95000ml of M5769 + 25.00000ml of M5304 + 4.50000ml of M5698 + 4.50000ml of M5751 + 4.50000ml of M5819 + 4.50000ml of M5976 + 4.50000ml of M5978 + 4.95000ml of M6033 + 5.00000ml of M6121 + 826.10000ml of W3112 = Final Quantity: 1000.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3962	MG 10PPM FOR TUNE	MP83633	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.01000ml of M5769 + 9.99000ml of MP83619 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3894	TUNE 200PPB	MP83634	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 2.00000ml of M6055 + 2.00000ml of MP83633 + 96.00000ml of MP83619 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3903	ISS 3PPM	MP83635	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 5.00000ml of M6126 + 75.00000ml of M5739 + 170.00000ml of MP83619 = Final Quantity: 250.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2902	S8 ICPMS	MP83636	12/13/2024	01/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 1.00000ml of M6033 + 2.50000ml of M5288 + 2.50000ml of M5515 + 5.00000ml of M5498 + 5.00000ml of M5516 + 5.00000ml of M5769 + 79.00000ml of MP83619 = Final Quantity: 100.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	08/07/2024 / jaswal	04/01/2022 / jaswal	M5304

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	022123	11/06/2025	11/06/2024 / kareem	03/17/2023 / bin	M5516

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5873

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/02/2024 / Jaswal	06/11/2024 / Jaswal	M5961

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGT11-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	060724	06/07/2027	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5981

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	031524	03/15/2027	07/01/2024 / Jaswal	06/11/2024 / Jaswal	M5982

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	V2-MEB742036	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5993

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / TI, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	24D1562005	02/08/2025	08/09/2024 / jaswal	08/01/2024 / Janvi	M6040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	U2-MEB734294	06/21/2028	08/21/2024 / Jaswal	08/19/2024 / Jaswal	M6055

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)		03/17/2029	10/26/2024 / Janvi	10/21/2024 / Janvi	M6095

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/04/2025	11/02/2024 / Janvi	09/29/2024 / Eman	M6115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

R: 02/22/24 M5991 M5992 M5993 M5994 M5995

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: CLPP-SPK-4
Lot Number: V2-MEB742036
Matrix: 3% (v/v) HNO₃
Value / Analyte(s):
100 µg/mL ea:
Antimony,
50 µg/mL ea:
Cadmium, Thallium,
40 µg/mL ea:
Arsenic,
20 µg/mL ea:
Lead,
10 µg/mL ea:
Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	100.0 ± 0.7 µg/mL	Arsenic, As	40.00 ± 0.26 µg/mL
Cadmium, Cd	50.00 ± 0.22 µg/mL	Lead, Pb	20.00 ± 0.09 µg/mL
Selenium, Se	10.00 ± 0.04 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, 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:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (z) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

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

$$\text{CRM/RM Expanded Uncertainty } (z) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

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 (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; Info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 12, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57048
070124
Cadmium (Cd)

Solvent: 24002546 Nitric Acid

Lot #

2% 40.0 Nitric Acid (mL)

Expiration Date: 070127

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test Number: 6UTB

5E-05 Balance Uncertainty

Weight shown below was diluted to (mL): 2000.07 0.100 Flask Uncertainty

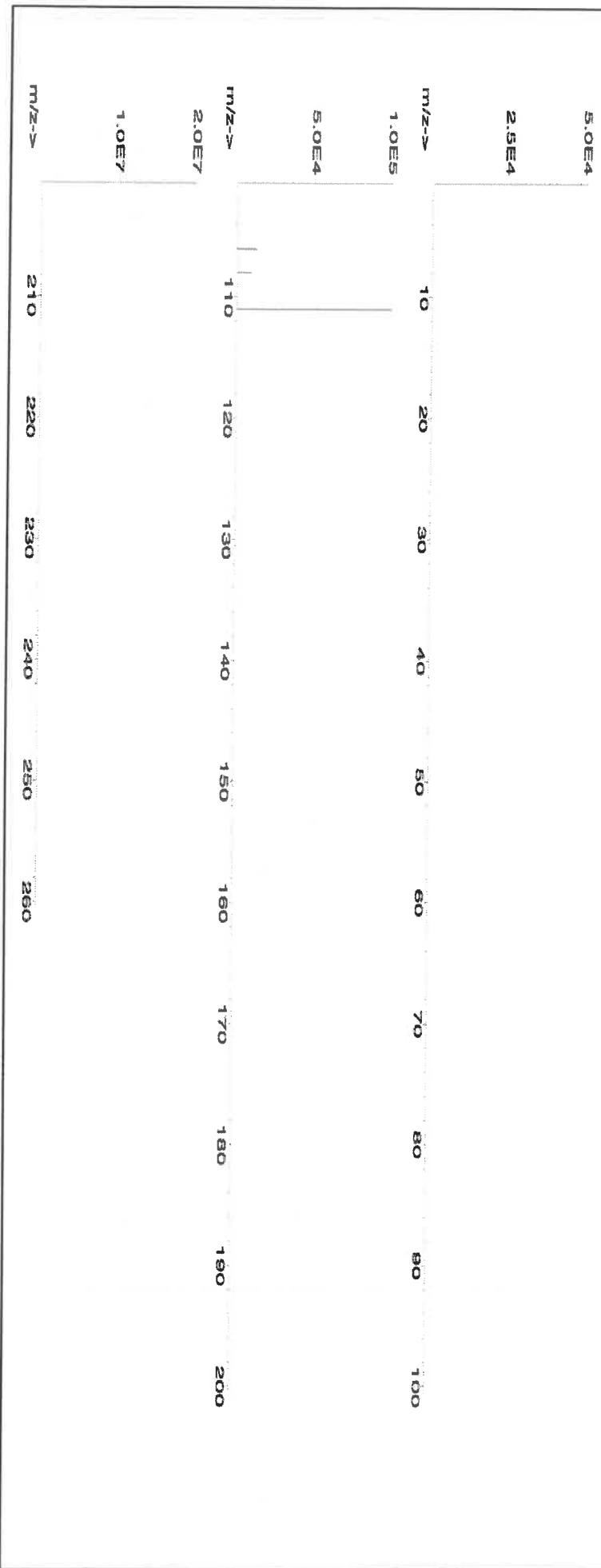
<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
	070124
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas
	070124

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Cadmium nitrate tetrahydrate (Cd)	IN024 CDM09221A1	1000	99.999	0.10	36.5	5.4797	5.4804	1000.1	2.0	10022-68-1	0.01 mg/m3	or-rat 60.2mg/kg	3108

[1] Spectrum No.1 [12.514 sec]:\$8148.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.2	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Ba	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Cd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pr	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

Lot #

R: 815/24

M6025



CERTIFIED WEIGHT REPORT:

Part Number: **57182**
Lot Number: **110923**
Description: **Lead (Pb)**

Solvent: **24002546 Nitric Acid**

Expiration Date: **110926**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test Number: **6UTB**

2% **40.0** **Nitric Acid**
(mL)

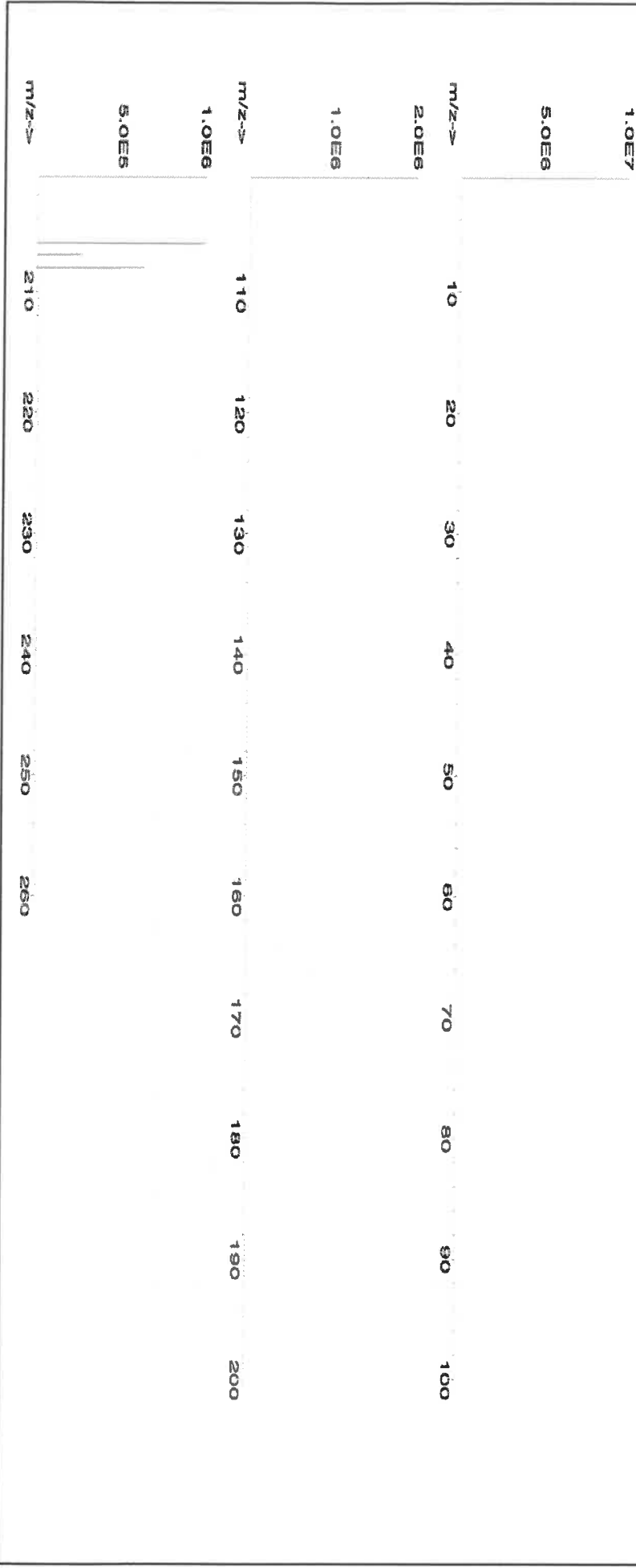
Weight shown below was diluted to (mL): **2000.02** **0.058** **Flask Uncertainty**

Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas

Compound	SDS Information									
	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)

1. **Lead(II) nitrate (Pb)** IN029 PED12016A1 10000 99.999 0.10 62.5 32.0006 32.0040 10001.1 20.0 10099-74-8 0.05 mg/m3 Inverse rat 83 mg/kg 3128

[1] Spectrum No.1 [17.284 sec]:58182.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

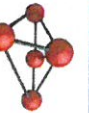
Physical Characterization:

(T)= Target analyte

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57042
051722
Molybdenum (Mo)

Lot # **Solvent:**
MKB08597V Ammonium hydroxide

0.5% **15.0** **Ammonium hydroxide**
(mL)

Expiration Date: 051725

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL): 3000.41

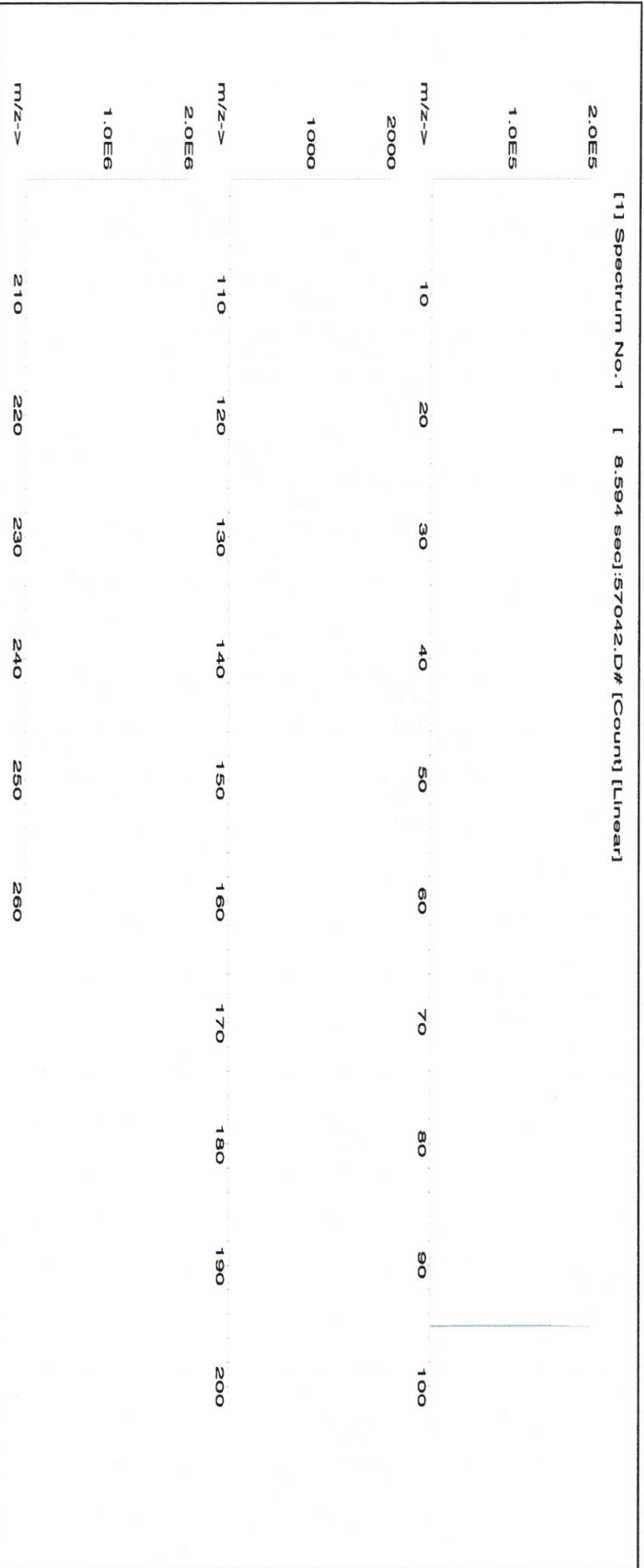
5E-05 **Balance Uncertainty**
0.058 **Flask Uncertainty**

Formulated By:	Lawrence Barry
	051722
Reviewed By:	Pedro L. Rentas
	051722

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	NIST SRM

1. Ammonium molybdate (Mo) 58142 022222 0.1000 300.0 0.084 1000 10001.0 1000.0 2.1 13106-76-8 5 mg(Mo)/m3 or-trat 333 mg/kg 3134





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

Solvent: 20510011 Nitric Acid

Lot #

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

2% 40.0 (mL) Nitric Acid

Weight shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

<i>Lawrence Barry</i>	
Formulated By:	Lawrence Barry
	071122
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas
	071122

Compound

Lot Number

Nominal Conc. (µg/mL)

Purity (%)

Uncertainty Purity (%)

Assay (%)

Target Weight (g)

Actual Weight (g)

Actual Conc. (µg/mL)

Expanded Uncertainty +/- (µg/mL)

CAS#

OSHA PEL (TWA)

LD50

NIST SRM

SDS Information

(Solvent Safety Info. On Attached pg.)

1. Potassium nitrate (K)

IN034 KD022021A1

10000

99.999

0.10

37.6

53.1925

53.1934

10000.2

20.0

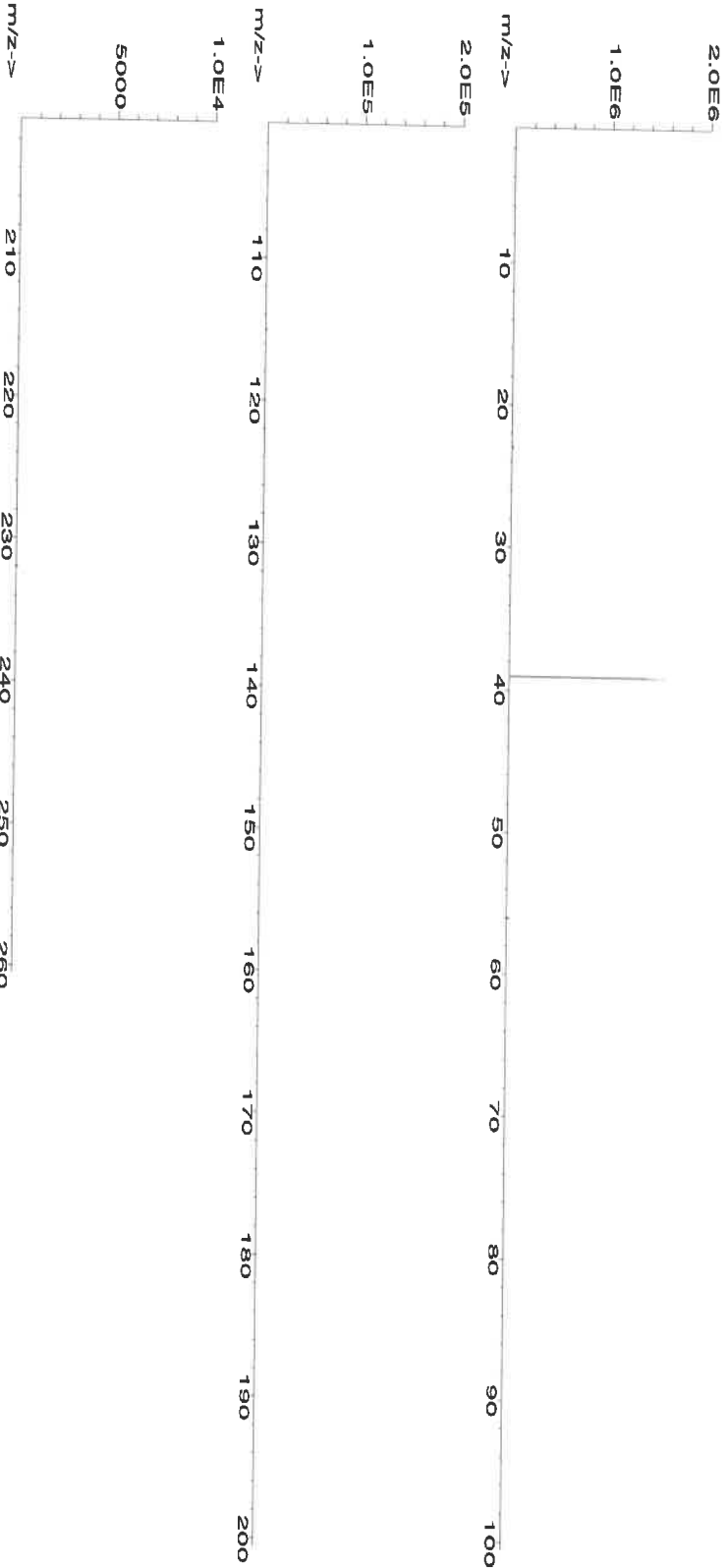
7757-79-1

5 mg/m3

oral rat 3015 mg/kg

3141a

[1] Spectrum No. 1 [35.763 sec]:58119.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

Physical Characterization:

(T) = Target analyte

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
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- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



M5289 R: 07/12/22
Certified Reference Material CRM

34



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

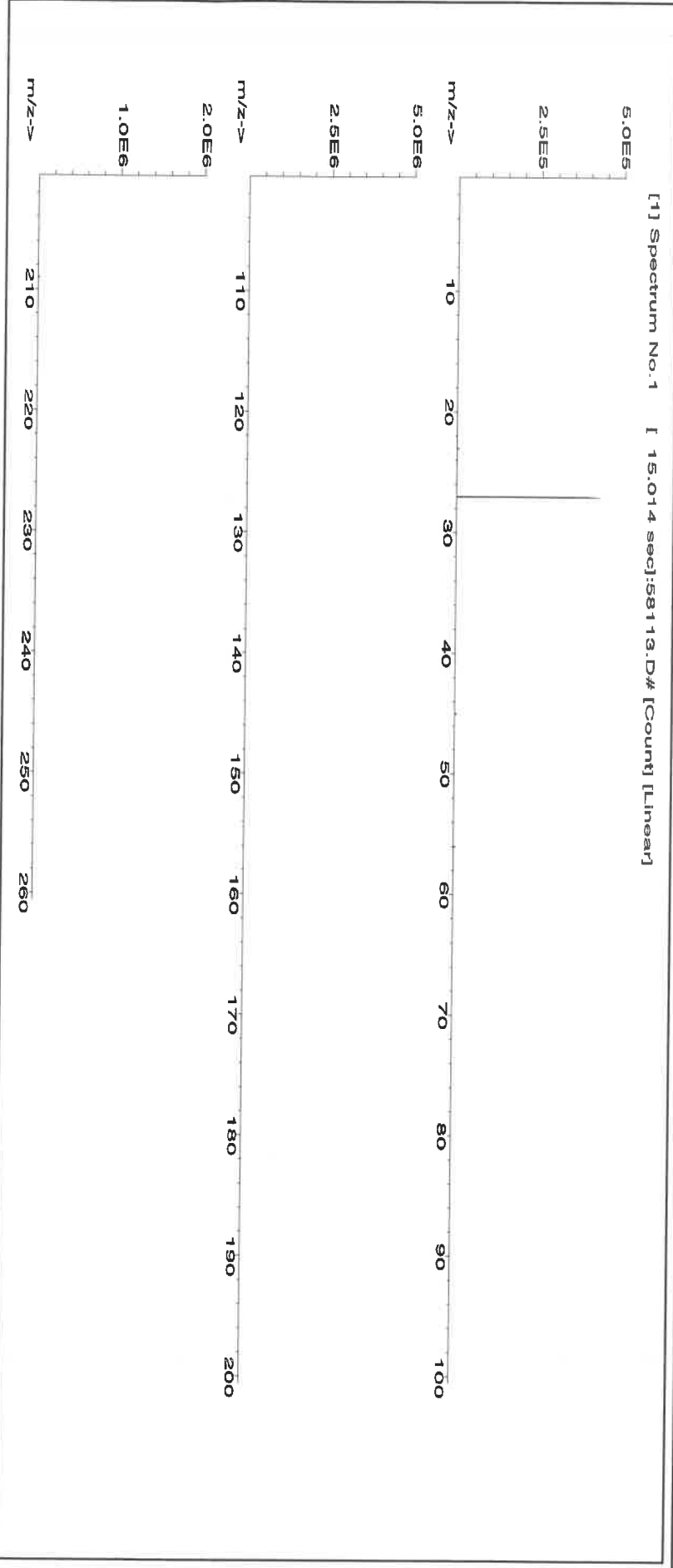
Lot #
Solvent: 20370011 Nitric Acid

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry
070622	
Reviewed By:	Pedro L. Renteria
070622	

SDS Information													
Compound	Expanded												
	Lot		Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Uncertainty	SDS Information		
	RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	+/- (µg/mL)	CAS#	(Solvent Safety Info. On Attached pg.)	

1. Aluminum nitrate nonahydrate (Al) IN022 ALD012021A1 10000 99.999 0.10 7.10 281.6956 281.6977 10000.1 20.0 7784-27-2 2 mg/m3 or-tal 3671 mg/kg 3101a





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Sr	<0.02	S	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ti	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
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- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



R: 4/20/21

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M15292
M15293
M15294
M15295

(A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) ANALYSIS OF SAMPLES

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.





QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

- ICV1-1014** For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.
- ICV5-0415** For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.
- ICV6-0400** For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

ICV1-1014		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99



Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: 6020CAL-1
Lot Number: S2-MEB711244
Matrix: 5% (v/v) HNO₃
tr. HF
Value / Analyte(s): 20 µg/mL ea:
Silver, Aluminum,
Arsenic, Barium,
Beryllium, Calcium,
Cadmium, Cobalt,
Chromium, Copper,
Iron, Potassium,
Magnesium, Manganese,
Sodium, Nickel,
Lead, Antimony,
Selenium, Thallium,
Vanadium, Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	20.01 ± 0.08 µg/mL	Antimony, Sb	20.01 ± 0.12 µg/mL
Arsenic, As	20.01 ± 0.18 µg/mL	Barium, Ba	20.01 ± 0.11 µg/mL
Beryllium, Be	20.01 ± 0.14 µg/mL	Cadmium, Cd	20.01 ± 0.11 µg/mL
Calcium, Ca	20.01 ± 0.10 µg/mL	Chromium, Cr	20.01 ± 0.16 µg/mL
Cobalt, Co	20.01 ± 0.11 µg/mL	Copper, Cu	20.01 ± 0.10 µg/mL
Iron, Fe	20.01 ± 0.09 µg/mL	Lead, Pb	20.01 ± 0.11 µg/mL
Magnesium, Mg	19.99 ± 0.10 µg/mL	Manganese, Mn	20.01 ± 0.10 µg/mL
Nickel, Ni	20.01 ± 0.11 µg/mL	Potassium, K	20.01 ± 0.10 µg/mL
Selenium, Se	20.02 ± 0.14 µg/mL	Silver, Ag	20.02 ± 0.09 µg/mL
Sodium, Na	20.01 ± 0.10 µg/mL	Thallium, Tl	20.01 ± 0.13 µg/mL
Vanadium, V	20.01 ± 0.11 µg/mL	Zinc, Zn	20.01 ± 0.11 µg/mL

Density: 1.026 g/mL (measured at 20 ± 4 °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
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, 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 (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





R-09/18/22 **(B1)**

Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

Part Number: 57056
Lot Number: 072122
Description: Barium (Ba)

Solvent: 20510011 Nitric Acid

Lot #

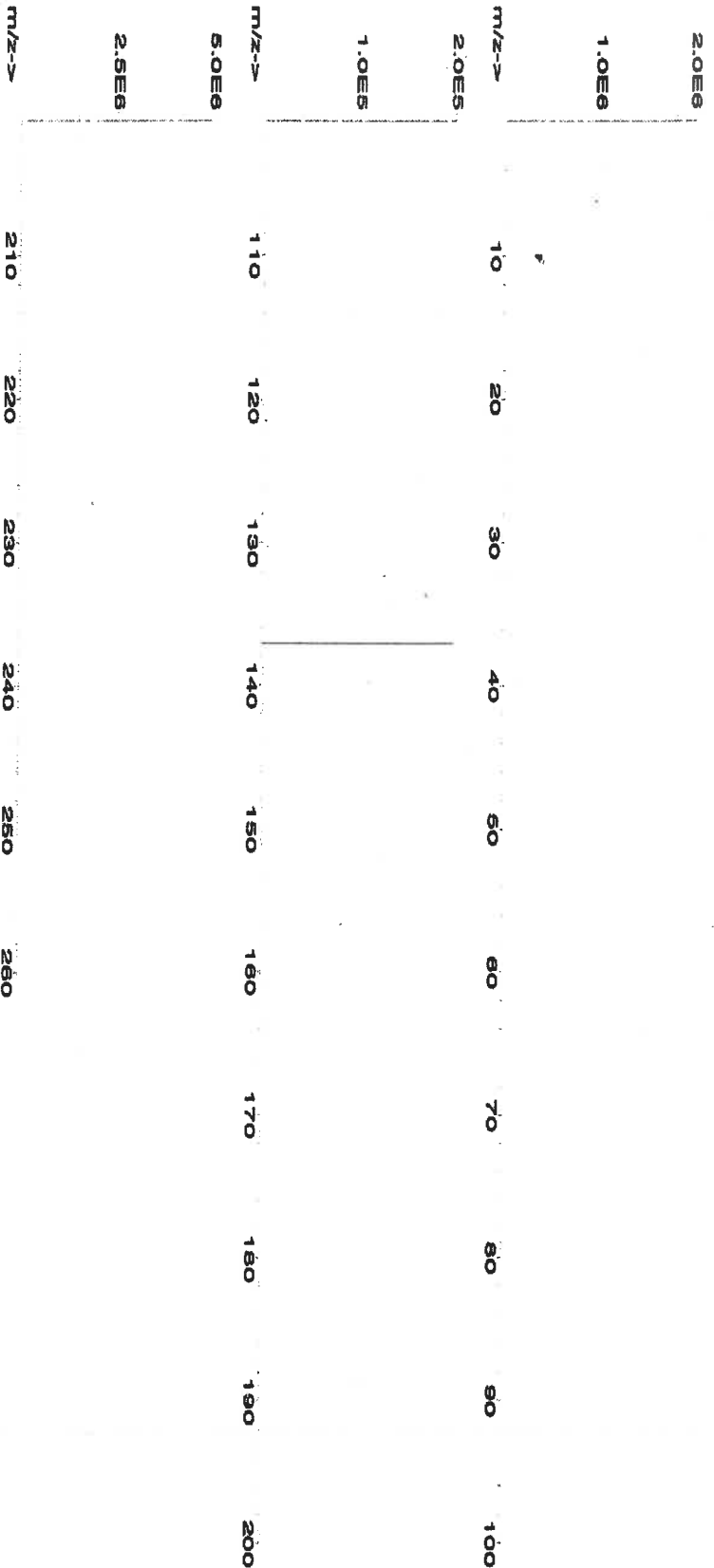
Expiration Date: 072125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

2% 40.0 (mL) Nitric Acid

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	<i>Pedro L. Rentes</i>
	072122

SDS Information									
Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#
1. Barium nitrate (Ba)	IN023 BA022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	1000.0	2.0
									10022-31-8
									0.5 mg/m3
									or 1st 355 mg/kg 31044

[1] Spectrum No. 1 [12.514 sec]:58156.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.02	Er	<0.2	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Cd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.02	Hg	<0.2	P	<0.2	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.2	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

Ben. P. R.

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.02	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.2	Fe	<0.02	Hg	<0.2	P	<0.2	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.2	Ta	<0.02	Tl	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57182
061522
Lead (Pb)

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

061525
Ambient (20 °C)
10000
6UTB

Weight shown below was diluted to (mL):

2000.02

5E-05 Balance Uncertainty

0.058 Flask Uncertainty

Solvent:

20510011 Nitric Acid

2% 40.0 Nitric Acid

(mL)

Lot #

20510011

Nitric Acid

Formulated By:

Giovanni Esposito

Reviewed By:

Pedro L. Rentas

061522

061522

Expanded

Uncertainty

+/- (µg/mL)

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

3128

NIST

SRM

LD50

OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

3128

NIST

SRM

LD50

OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

3128

NIST

SRM

LD50

OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

3128

NIST

SRM

LD50

OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

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SRM

LD50

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CAS#

(Solvent Safety Info. On Attached pg.)

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10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

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OSHA PEL (TWA)

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(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

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SRM

LD50

OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

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SRM

LD50

OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

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(Solvent Safety Info. On Attached pg.)

SDS Information

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20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

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OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

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LD50

OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

3128

NIST

SRM

LD50

OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

3128

NIST

SRM

LD50

OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

3128

NIST

SRM

LD50

OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)

32.0041

10001.1

20.0

10098-74-8

0.05 mg/m3

intrins- rat 88 mg/kg

3128

NIST

SRM

LD50

OSHA PEL (TWA)

CAS#

(Solvent Safety Info. On Attached pg.)

SDS Information

Actual

Weight (g)



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.2	Fe	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pr	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

M5514, M5515
R: 03/12/23

Lot #

Part Number: 58126
Lot Number: 092122
Description: Iron (Fe)

Solvent: 20510011 Nitric Acid

Expiration Date: 092125

Balance Uncertainty: 7.0%

Recommended Storage: Ambient (20 °C)

Flask Uncertainty: 350.0 (mL)

Nominal Concentration (µg/mL): 10000

Nitric Acid

NIST Test Number: 6UTB

SE-05

Weight shown below was diluted to (mL): 5000.1

0.12

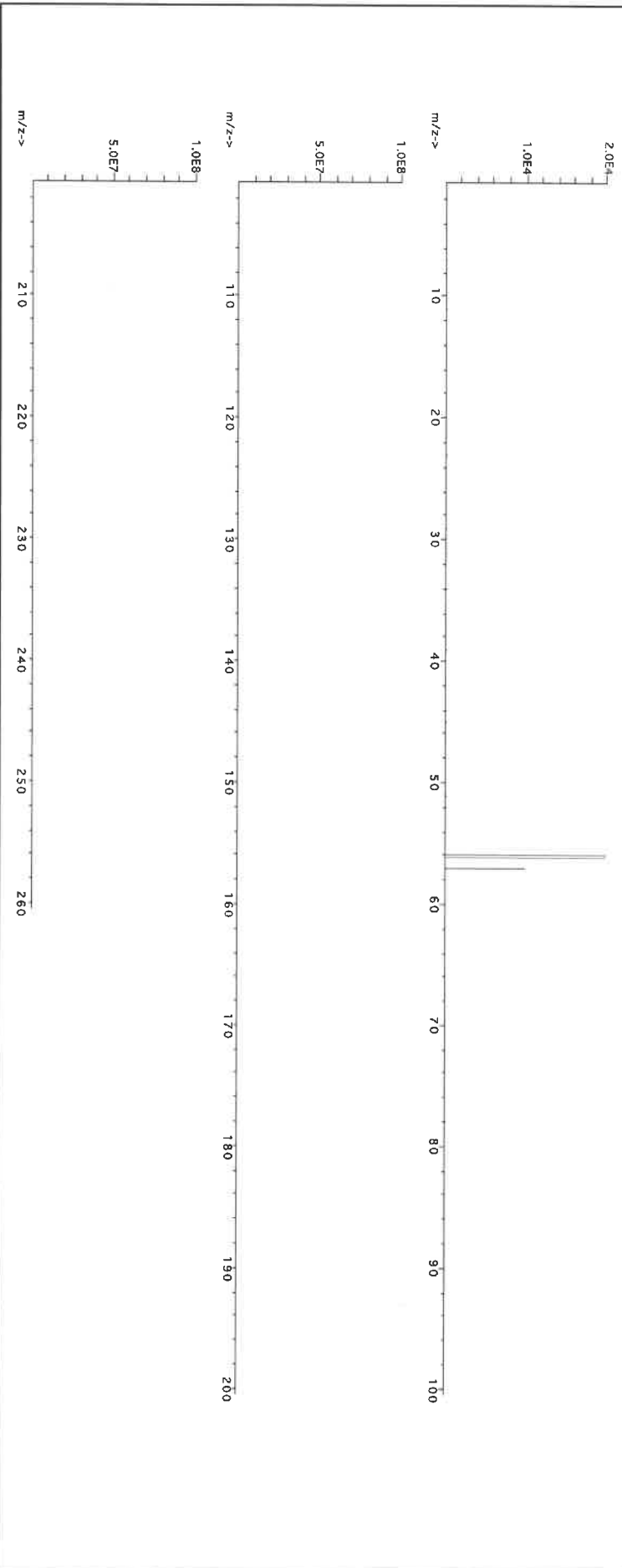
SDS Information

Compound

Compound	Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	(Solvent Safety Info. On Attached pg.)	NIST
	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	Uncertainty	CAS#	SRM
								+/- (µg/mL)		OSHA PEL (TWA)	

1. Iron (Fe) IN346 2224912-500 10000 99.995 0.10 100.0 50.0034 50.0111 10001.5 20.0 7439-89-6 5 mg/m3 or-hal 7500mg/kg 3126a

[1] Spectrum No.1 [30.763 sec]:58126.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	La	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.2	Fe	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.02	La	<0.10	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.05
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
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- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM



M516 M517 R:03/17/22

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 022123
Description: Sodium (Na)

Expiration Date: 022126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.41

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Solvent: 21110221 Nitric Acid

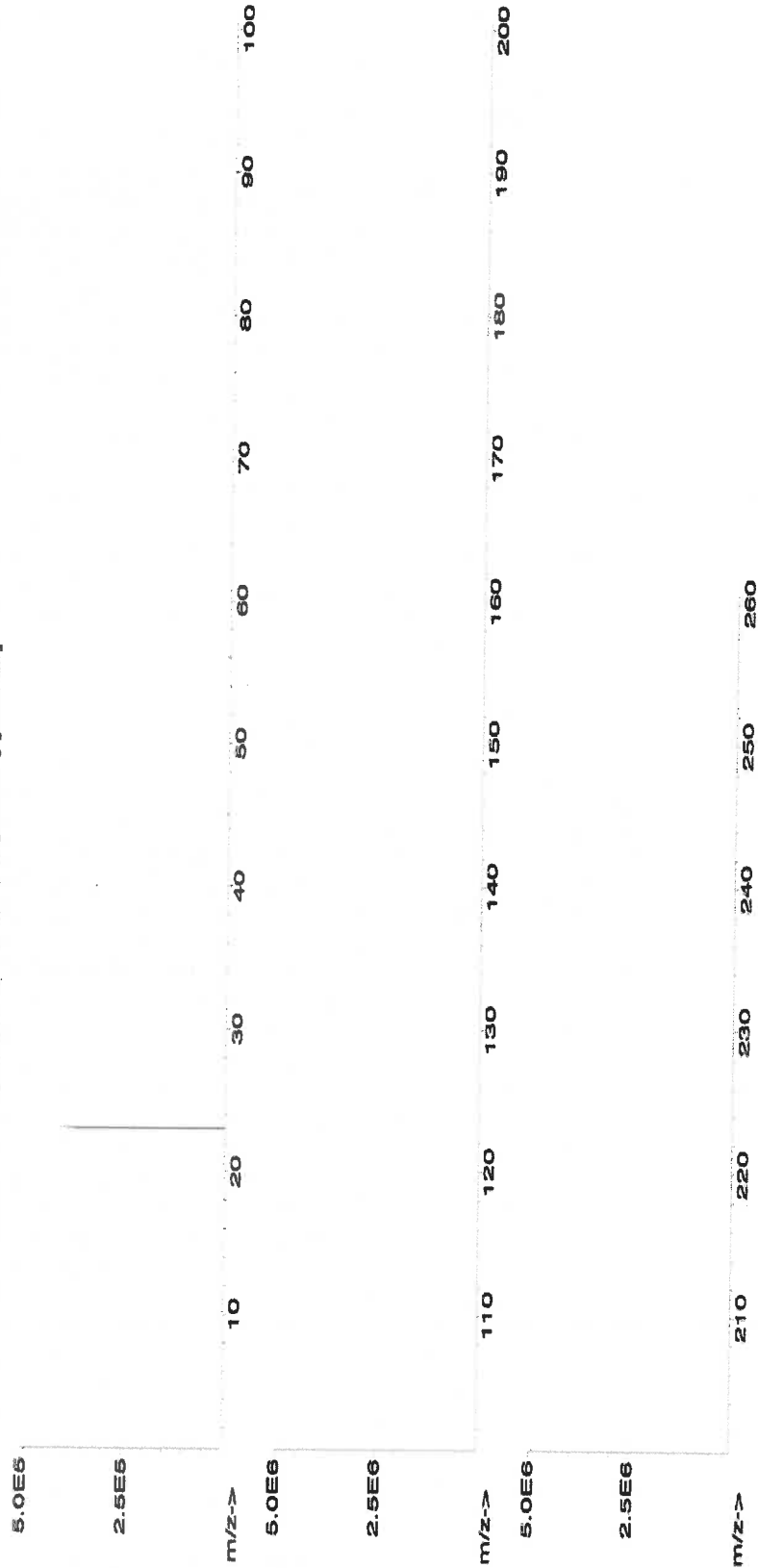
2% 60.0 Nitric Acid
(mL)

Formulated By:	Lawrence Barry 022123
Reviewed By:	Pedro L. Rentas 022123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information		
											(Solvent Safety Info. On Attached pg.)		
											CAS#	OSHA PEL (TWA)	NIST SRM

1. Sodium nitrate (Na) IN036 NAV01201511 10000 99.998 0.10 26.9 111.5406 111.5410 10000.0 20.0 7631-99-4 5 mg/m3 orl-rat 3430 mg/kg 3152a

[1] Spectrum No.1 [8.935 sec]:58111.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.02	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.02	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.02	Hg	<0.2	P	<0.2	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

Part Number: **58119**
Lot Number: **120822**
Description: **Potassium (K)**

Solvent: 20510011 Nitric Acid

Lot #

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

2% 60.0 (mL) Nitric Acid

Weight shown below was diluted to (mL): 3000.4

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

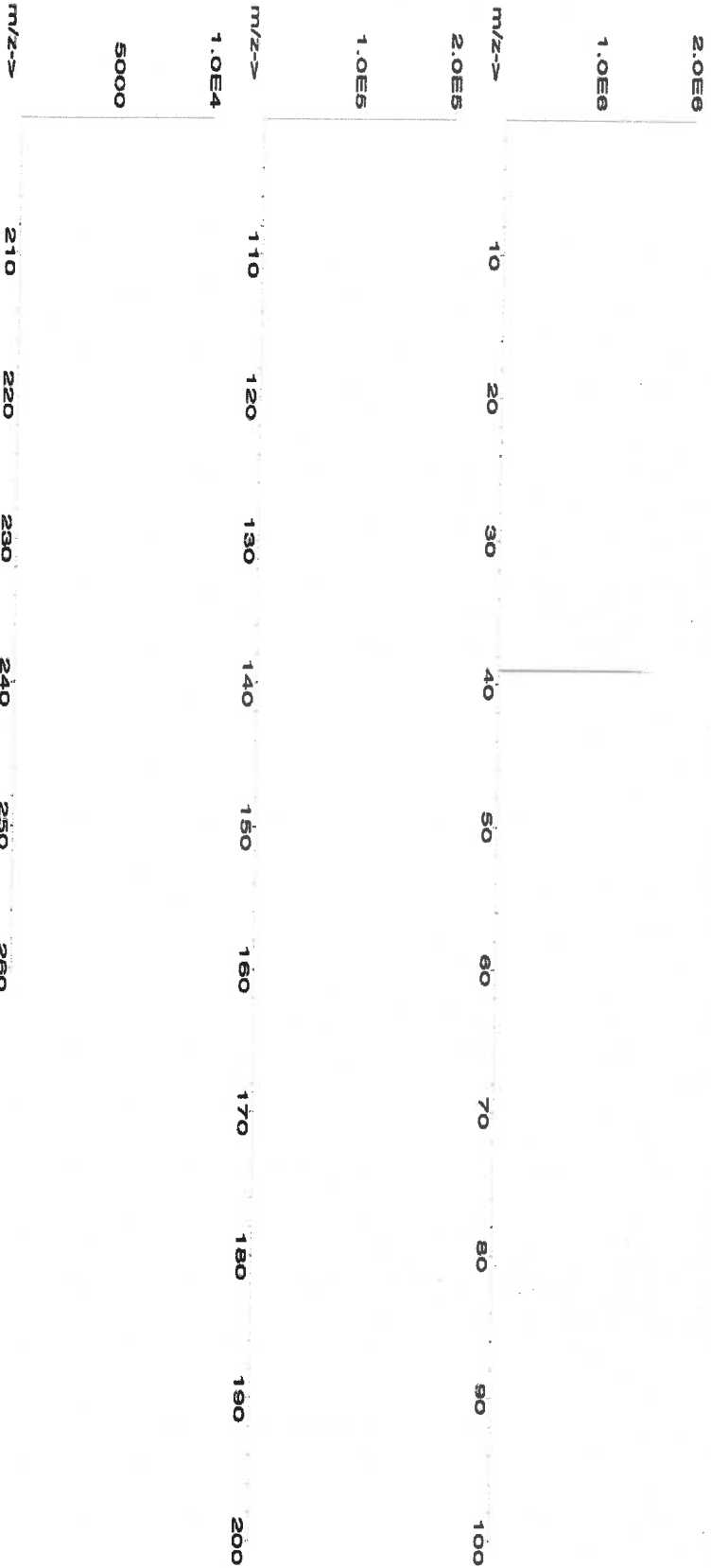
<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	Pedro L. Rentas
	120822

Compound

Lot	Nominal	Purity	Uncertainty	Assay	Target	Actual	Actual	Expanded	SDS Information	NIST
Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	Uncertainty +/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	SRM
RM#										

1. Potassium nitrate (K) IN034 KD022021A1 10000 99.989 0.10 37.6 79.7990 79.8075 10001.1 20.0 7757-79-1 5 mg/m3 crtat 3015 mg/kg 3141a

[1] Spectrum No.1 [35.763 sec]:58119.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	Pb	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02			Nd	<0.02	K		Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 58024
Lot Number: 060523
Description: Chromium (Cr)

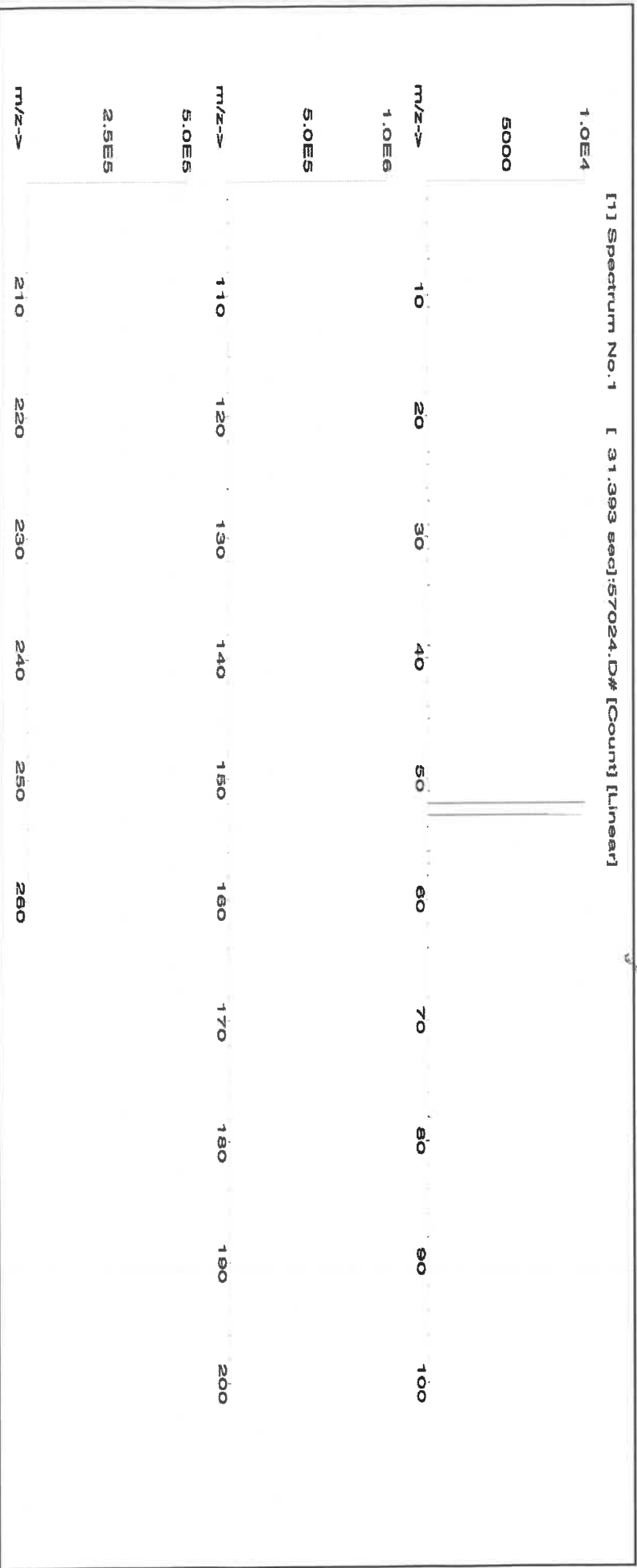
Lot # 21110221
Solvent: Nitric Acid

Formulated By:	Lawrence Barry
	060523
Reviewed By:	Pedro L. Ruelas
	060523

Expiration Date: 060526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Chromium(III) nitrate nonahydrate (Cr) 58124 071122 0.1000 200.0 0.084 1000 10000.1 1000.0 2.2 7789-02-8 0.5 mg(Cr)/m3 or rat 3250 mg/kg 3112a





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



M5648 R:10/23/23



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

58025
102623
Manganese (Mn)

Lot #
Solvent:

24002546
Nitric Acid

Expiration Date:

102626

2.0%

60.0
(mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL):

3000.41

5E-05

Balance Uncertainty

0.058

Flask Uncertainty

Formulated By:

Benson Chan

102623

Reviewed By:

Pedro L. Ruelas

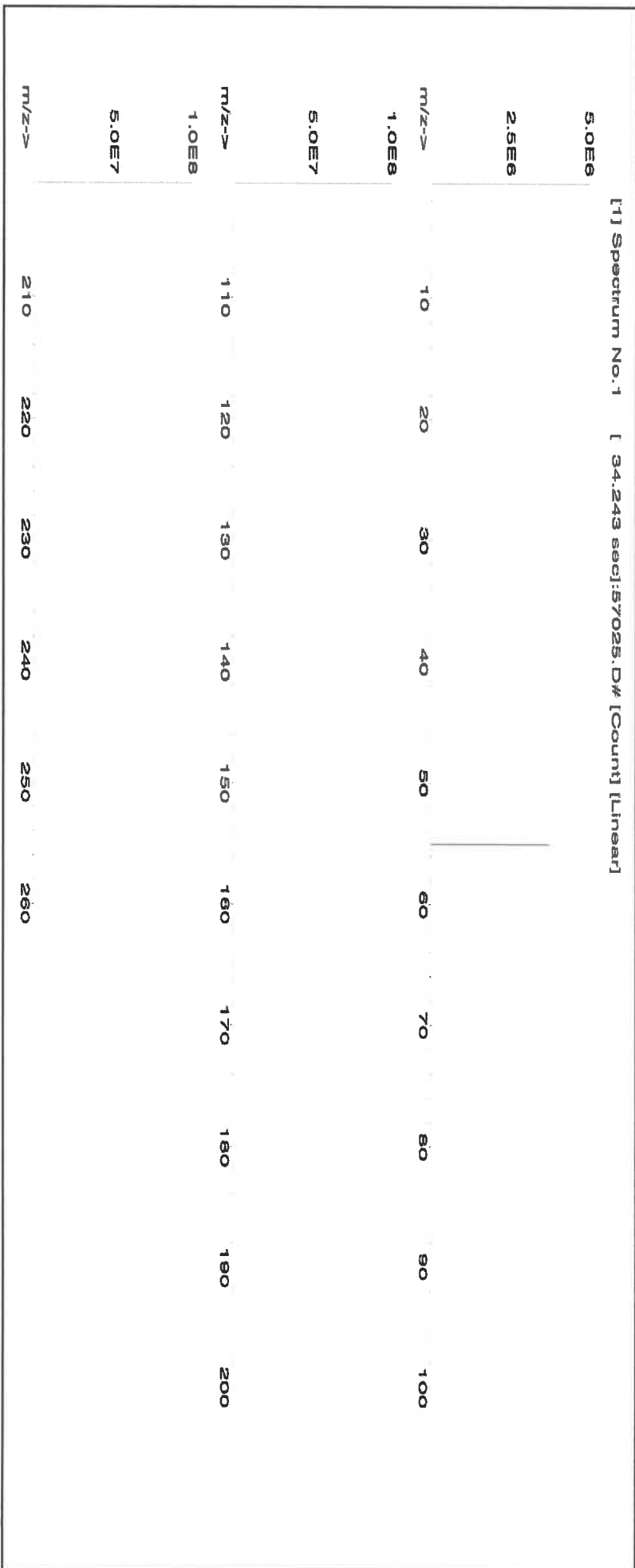
102623

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	(Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Manganese(II) nitrate tetrahydrate (Mn) 58125 071123 0.1000 300.0 0.084 1000 10000.1 1000.0 2.1 20694-39-7 5 mg/m3 or-rel>300mg/kg 3132

[1] Spectrum No.1 [34.243 sec]:57025.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: **58029**
Lot Number: **071723**
Description: **Copper (Cu)**

Lot #: **2110221**
Solvent: **Nitric Acid**

2.0%

40.0 (mL)
Nitric Acid

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Ruelas	071723

Expiration Date: **071726**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**

NIST Test Number: **6UTB**

Volume shown below was diluted to (mL): **2000.02**
Balance Uncertainty: **5E-05**
Flask Uncertainty: **0.058**

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Copper(II) nitrate trihydrate (Cu) 58129 022723 0.1000 200.0 0.084 1000 10000.5 1000.0 2.2 10031-43-3 1 mg/m3 or rat 794 mg/kg 3114

[1] Spectrum No.1 [33.422 sec]:58029.D# [Count] [Linear]

1.0E6	m/z-->	10	20	30	40	50	60	70	80	90	100
5.0E5	m/z-->	110	120	130	140	150	160	170	180	190	200
2.5E7	m/z-->	210	220	230	240	250	260				



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	La	<0.2	Hg	<0.2	P	<0.02	Sr	<0.02	S	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	Pb	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02			Nd	<0.02	K	<0.2	Sc	<0.02			Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



M5768 M5769
Certified Reference Material CRM
R: 1/13/24



CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Solvent: 24002546 Nitric Acid

Lot #

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

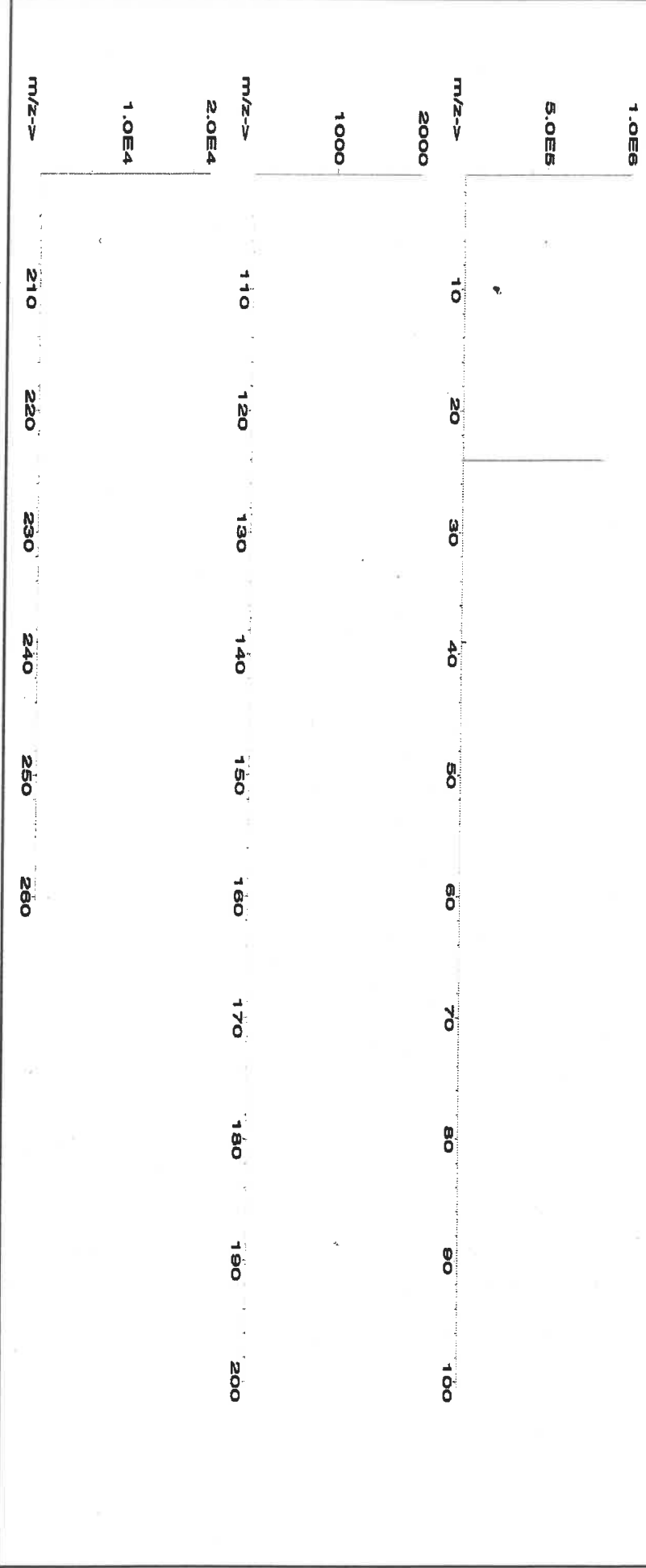
2% 40.0 (mL) Nitric Acid

Formulated By: <i>Lawrence Barry</i>		091823
Reviewed By: <i>Pedro L. Rentas</i>		091823

Compound	Lot	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	NIST SRM

1. Magnesium nitrate hexahydrate (Mg) IN030 M500222A1 10000 99.999 0.10 8.51 234.9118 234.9126 10000.0 20.0 13446-18-9 NA or-rat 5440 mg/kg 3131a

[1] Spectrum No. 1 [19.923 sec]: 58112.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 57004
Lot Number: 102523
Description: Beryllium (Be)

Lot # 24002546
Solvent: Nitric Acid

Expiration Date:

102526

2.0%

40.0 (mL)

Nitric Acid

Recommended Storage:

Ambient (20 °C)

1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL):

5E-05

Balance Uncertainty

0.058

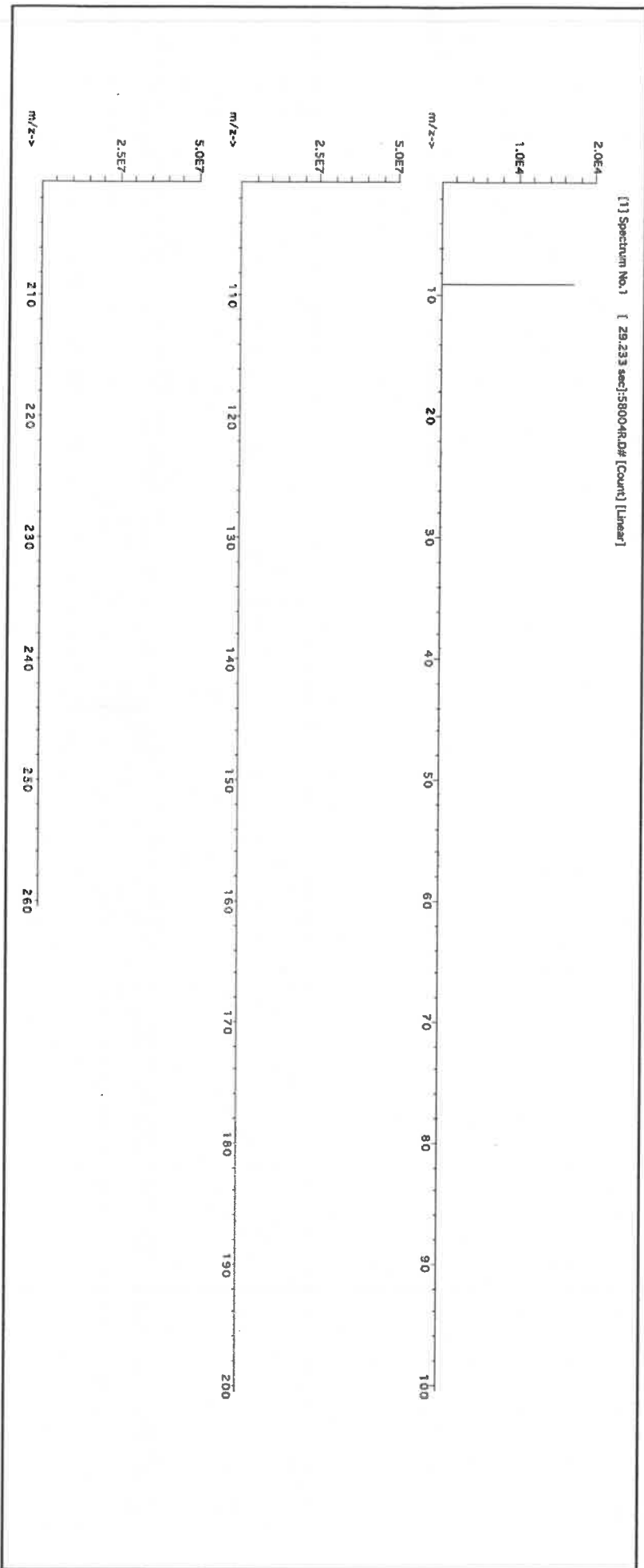
Flask Uncertainty

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

SDS Information

Compound	Part Number	Lot	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	1000.0	2.2	13597-99-4	0.2ug/m3	intrinsc-rat 3.16mg/kg	NA





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.02	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.02	Sc	<0.02	Ta	<0.02	Tl	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

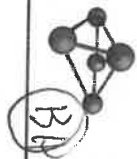
Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

Solvents: 21110221 Nitric Acid
22D0562008 Hydrochloric acid

Lot #

R-02509124

M599



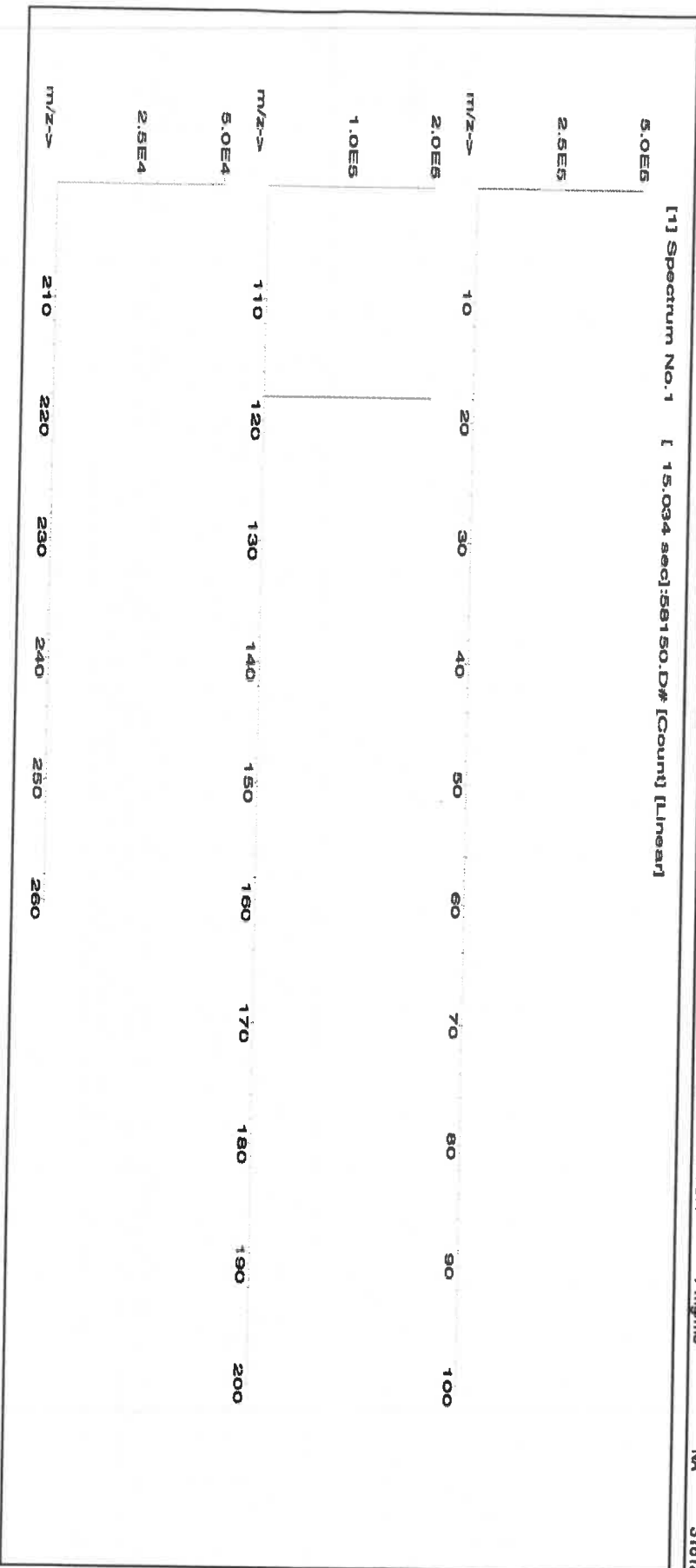
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Benson Chan	
071123	
Reviewed By: Pedro L. Rientas	
071123	

SDS Information															NIST		
Compound		Lot		Nominal		Purity		Uncertainty		Assay		Target		Actual		Expanded	
RM#	Number	Conc. (µg/mL)	(%)	Purity (%)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	(%)	Weight (g)	Weight (g)	Conc. (µg/mL)	(%)

1. Ammonium hexafluoroantimonate(V) (Sn) INO10 SMD042023A1 1000 99.999 0.10 44.2 1.13107 1.13286 1001.6 2.0 16919-24-7 7 mg/m3 NA 3161a

[1] Spectrum No. 1 [15.034 sec]:56150.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Ta	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Tl	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



R: 02/09/24 115800 (54)

CERTIFIED WEIGHT REPORT:

Part Number: 57027
Lot Number: 091923
Description: Cobalt (Co)

Expiration Date: 091926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Volume shown below was diluted to (mL): 2000.02

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Lot # 24002546
Solvent: Nitric Acid

2.0% Nitric Acid
40.0 (mL)

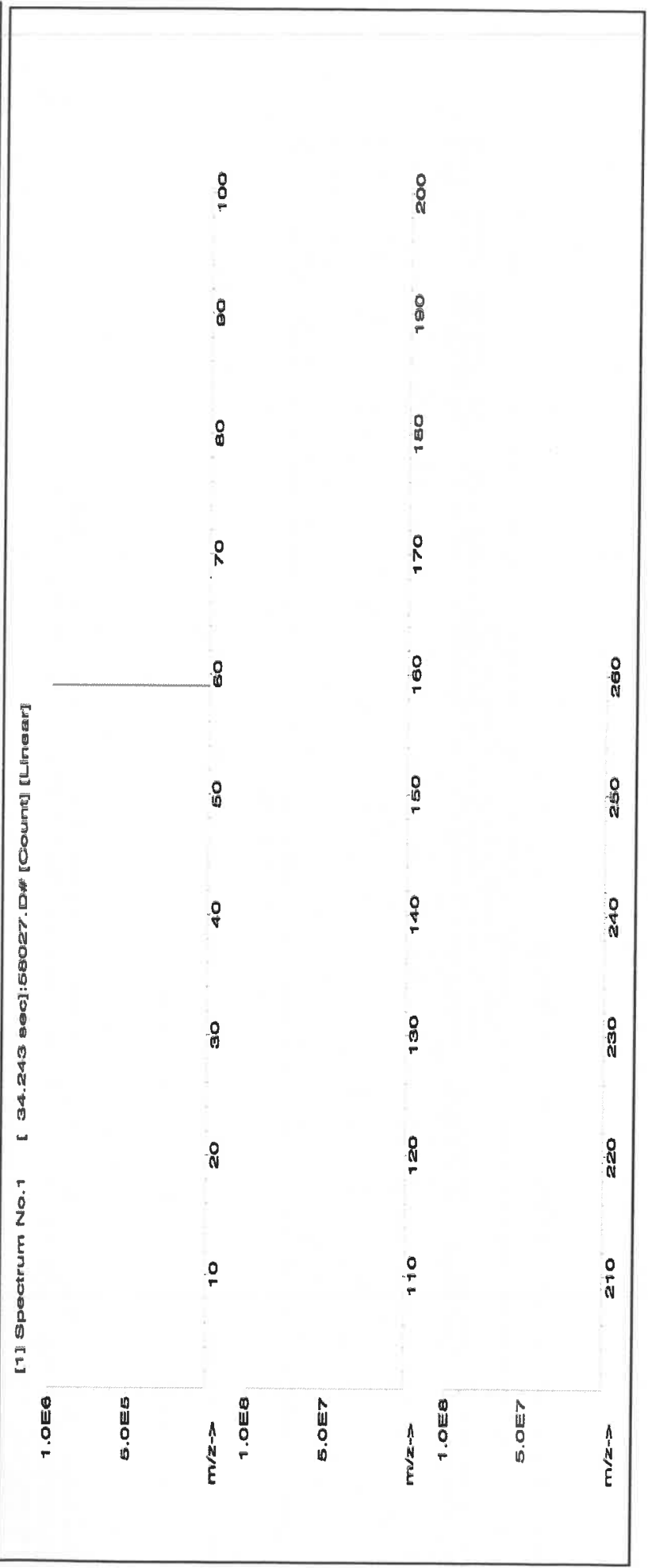
Formulated By:	Lawrence Barry
Reviewed By:	Pedro L. Rentas

SDS Information

Expanded Uncertainty +/- (µg/mL)
Final Conc. (µg/mL)
Initial Conc. (µg/mL)
Nominal Conc. (µg/mL)
Pipette (mL)
Initial Vol. (mL)
Dilution Factor
Part Number
Lot Number

(Solvent Safety Info. On Attached pg.)
CAS#
OSHA PEL (TWA)
LD50
NIST
SRM

1. Cobalt(II) nitrate hexahydrate (Co) 58127 050923 0.1000 200.0 0.084 1000 10000.0 1000.0 2.2 10026-22-9 0.02 mg/m3 orl-rat 691 mg/kg 3113





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.2	Na	<0.02	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57033
111323
Arsenic (As)

Lot #
Solvent:

24002546
Nitric Acid

2.0%

80.0

Nitric Acid

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):

111326
Ambient (20 °C)
1000

NIST Test Number:

6UTB

Volume shown below was diluted to (mL):

4000.0

5E-05

Balance Uncertainty

0.06

Flask Uncertainty

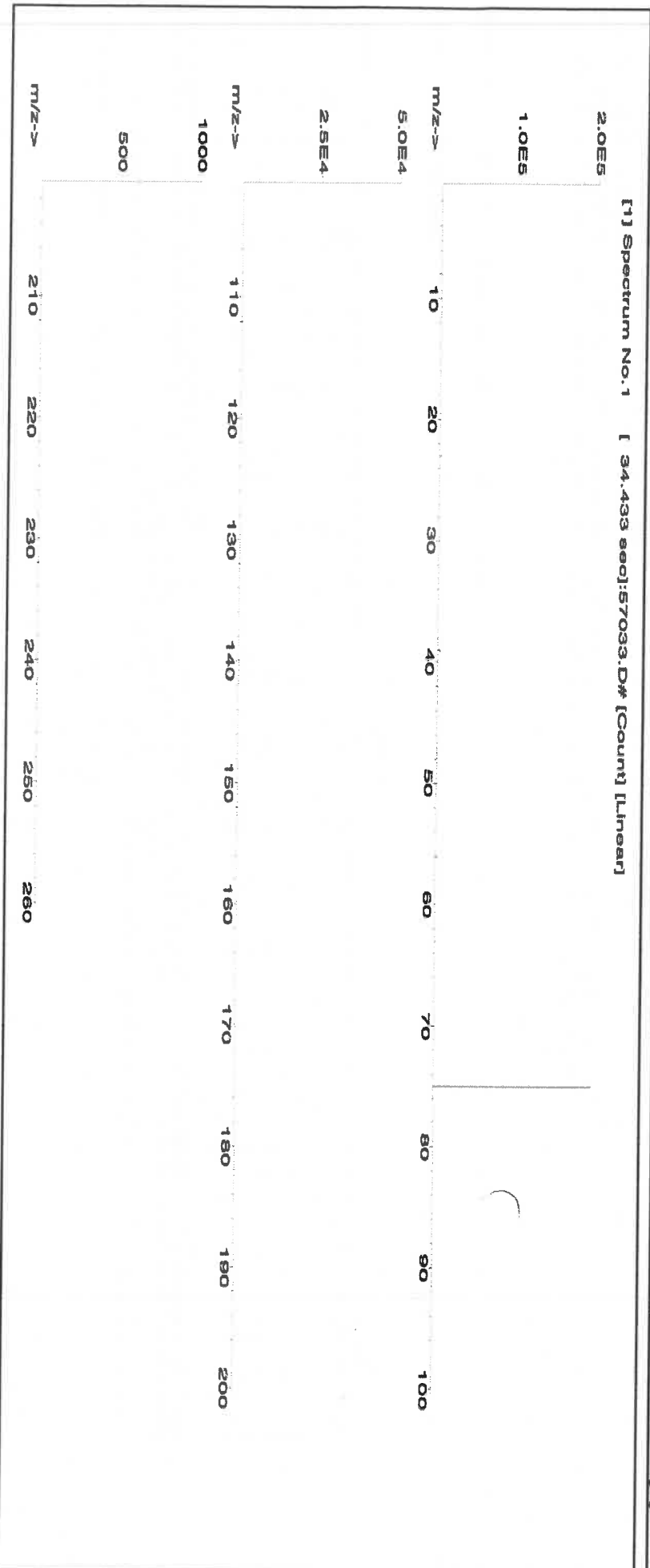
Formulated By:	Lawrence Barry
Reviewed By:	
Pedro L. Rendas	111323

Compound

Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Arsenic (As) 58133 020522 0.1000 400.0 0.084 1000 10001.0 1000.0 2.0 7440-38-2 0.5 mg/m3 or-lat 500 mg/kg 3103a

[1] Spectrum No.1 [34.433 sec]:57033.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Tl _h	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge [*]	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sa	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 57115
Lot Number: 041723
Description: Phosphorous (P)

Solvent: 21110221 Nitric Acid

Lot #

R102109124 M5815

Expiration Date: 041726
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

2% 40.0 (mL) Nitric Acid

Weight shown below was diluted to (mL): 2000.02 0.058 Balance Uncertainty Flask Uncertainty

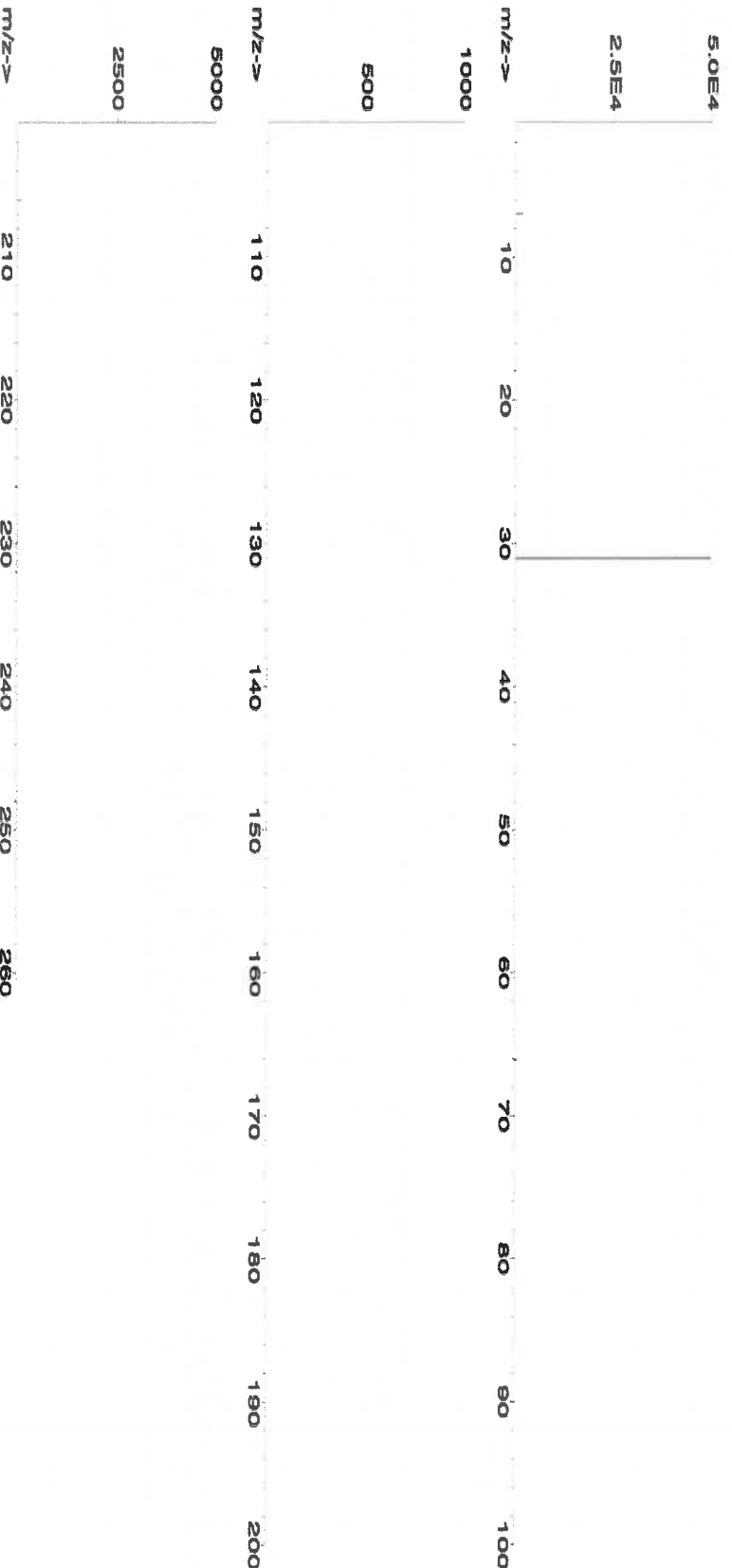
Formulated By: Lawrence Barry	041723
Reviewed By: Pedro L. Rentas	041723

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Ammonium dihydrogen phosphate (P) IN008 P082019A1 10000 99.999 0.10 27.5 72.7287 72.7289 10000.0 20.0 7722-76-1 5 mg/m3 or-hal >2000mg/kg 3186

[1] Spectrum No.1 [12.074 sec]:58115.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57016
122923
Sulfur (S)

Lot #

ASTM Type 1 Water

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Rentas
122923	

Expiration Date:

122926

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6L7B

Weight shown below was diluted to (mL):

4000.0

SE-05 Balance Uncertainty
0.06 Flask Uncertainty

Compound

RM#
Lot
Number

Nominal
Conc. (µg/mL)

Purity
(%)

Uncertainty
Assay (%)

Target
Weight (g)

Actual
Weight (g)

Actual
Conc. (µg/mL)

Expanded
Uncertainty
+/- (µg/mL)

CAS#
OSHA PEL (TWA)

LD50

NIST
SRM

1. Ammonium sulfate (S)

IN117 SLBR725v

1000

99.9

0.10

24.3

16.4979

16.4980

1000.0

2.0

7783-20-2

NA

or-rel 4250mg/kg 3181

[1] Spectrum No. 1 [33.603 sec]:57016.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Ba	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	S	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02	Ti	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: **57116**
Lot Number: **071123**
Description: **Sulfur (S)**

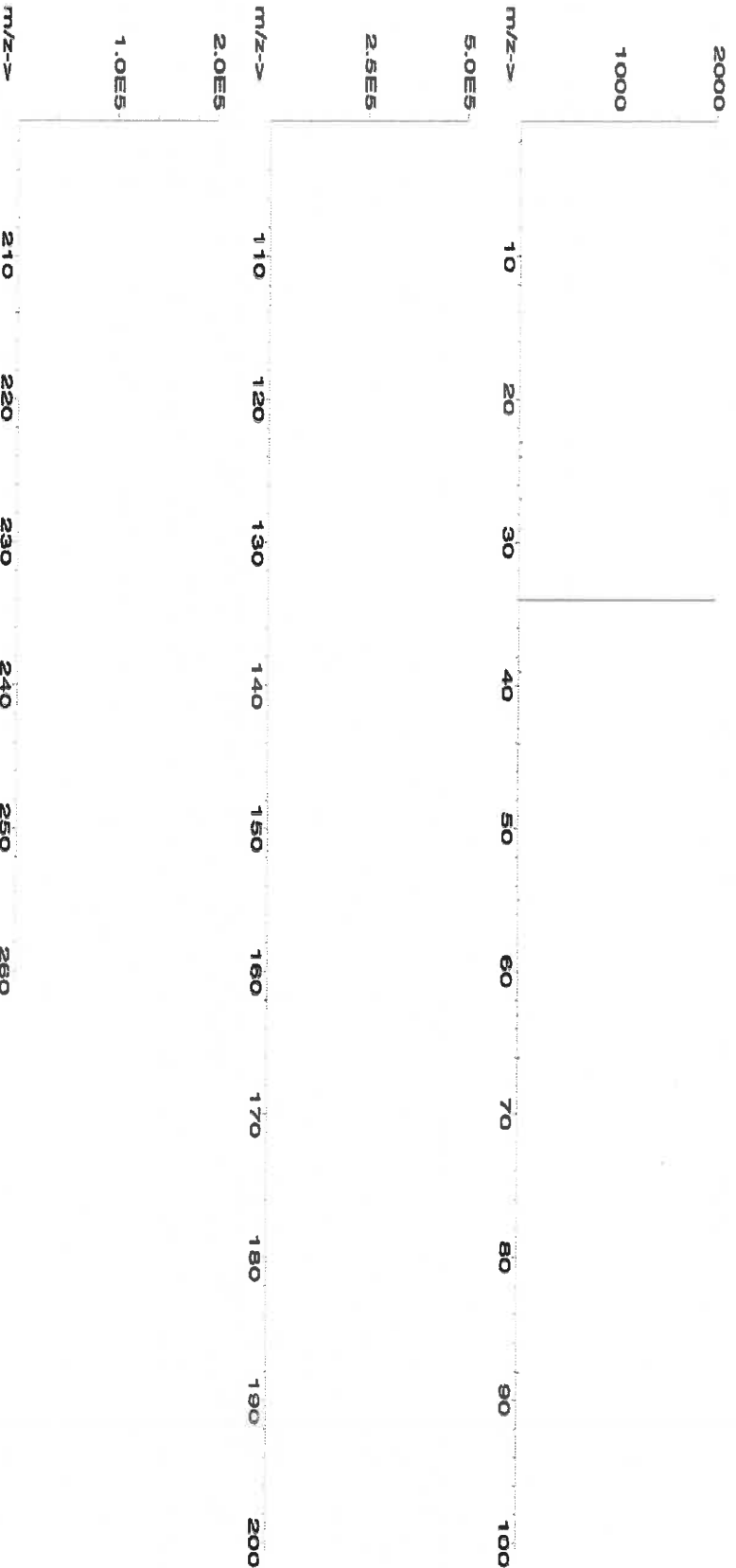
Lot #
Solvent: 071123
ASTM Type 1 Water

Formulated By:	Lawrence Barry
Reviewed By:	
Pedro L. Rentas	
071123	

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1999.48
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

SDS Information									
Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)
Ammonium sulfate (S)	IN117 SLBR725V	10000	99.9	0.10	24.3	82.4675	82.4692	10000.1	20.0
						7763-20-2	NA	oralal 4250mg/kg	3181

[1] Spectrum No. 1 [24.004 sec]:58116.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Ti	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

Physical Characterization:

(T)= Target analyte

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: **57014**
Lot Number: **122023**
Description: **Silicon (Si)**

Solvent: **24002546 Nitric Acid**

Lot #

R: 02/09/24 M5818

Expiration Date: **122026**

2% 40.0 (mL) Nitric Acid

Recommended Storage: **Ambient (20 °C)**

Nominal Concentration (µg/mL): **1000**

NIST Test Number: **6UTB**

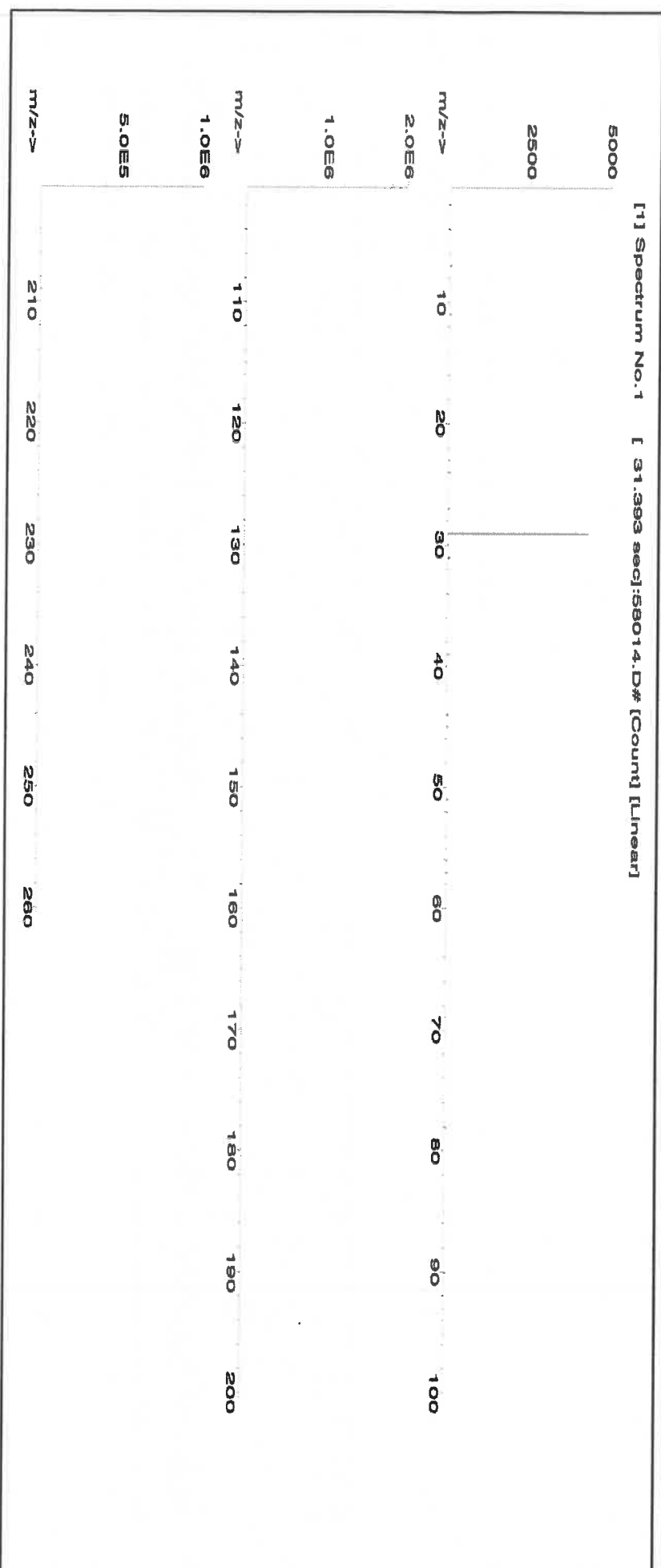
<i>Aleah O Brady</i>	
Formulated By:	Aleah O Brady
Reviewed By:	Pedro L. Rentas
	122023

Weight shown below was diluted to (mL): **1999.48** 0.058 Balance Uncertainty
0.058 Flask Uncertainty

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	IN009 S1D08022A1	1000	99.999	0.10	14.4	13.8854	13.8855	1000.0	2.0	18919-19-0	2.5 mg/m3	off-mus 70 mg/kg	NA

[1] Spectrum No. 1 [31.393 sec; 158014.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Ru	<0.02	Ag	<0.02	Ti	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Tl	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Solvent: 24002546 Nitric Acid

Lot # R: 02109124 MS819

2% 60.0 (mL) Nitric Acid

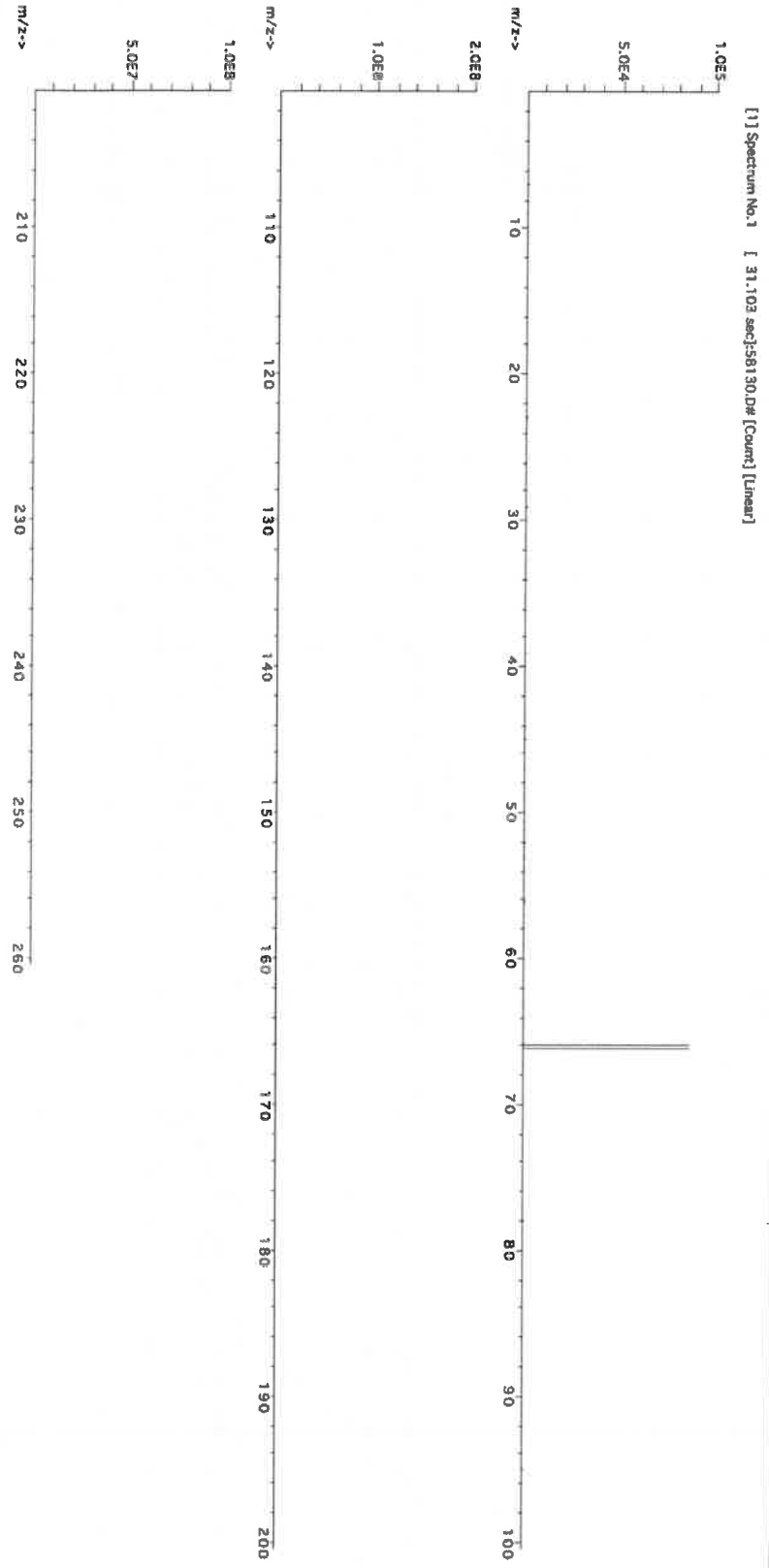
Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Reintas
111623	

Weight shown below was diluted to (mL): 3000.4 0.06 Balance Uncertainty Flask Uncertainty

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LDSO	NIST SRM

1. Zinc nitrate hexahydrate (Zn) IN016 ZNE03021A1 1000 99.999 0.10 24.3 12.3475 12.3502 1000.2 2.0 10196-16-6 1 mg/mL 3168 or-rat 1190mg/kg





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 57015
Lot Number: 091123
Description: Phosphorous (P)

Solvent: 24002546 Nitric Acid

Lot #

R: 02109124 M5820

Formulated By: Lawrence Barry 091123

Reviewed By: Pedro L. Rentas 091123

2% 40.0 (mL) Nitric Acid

Expiration Date: 091126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6LJB

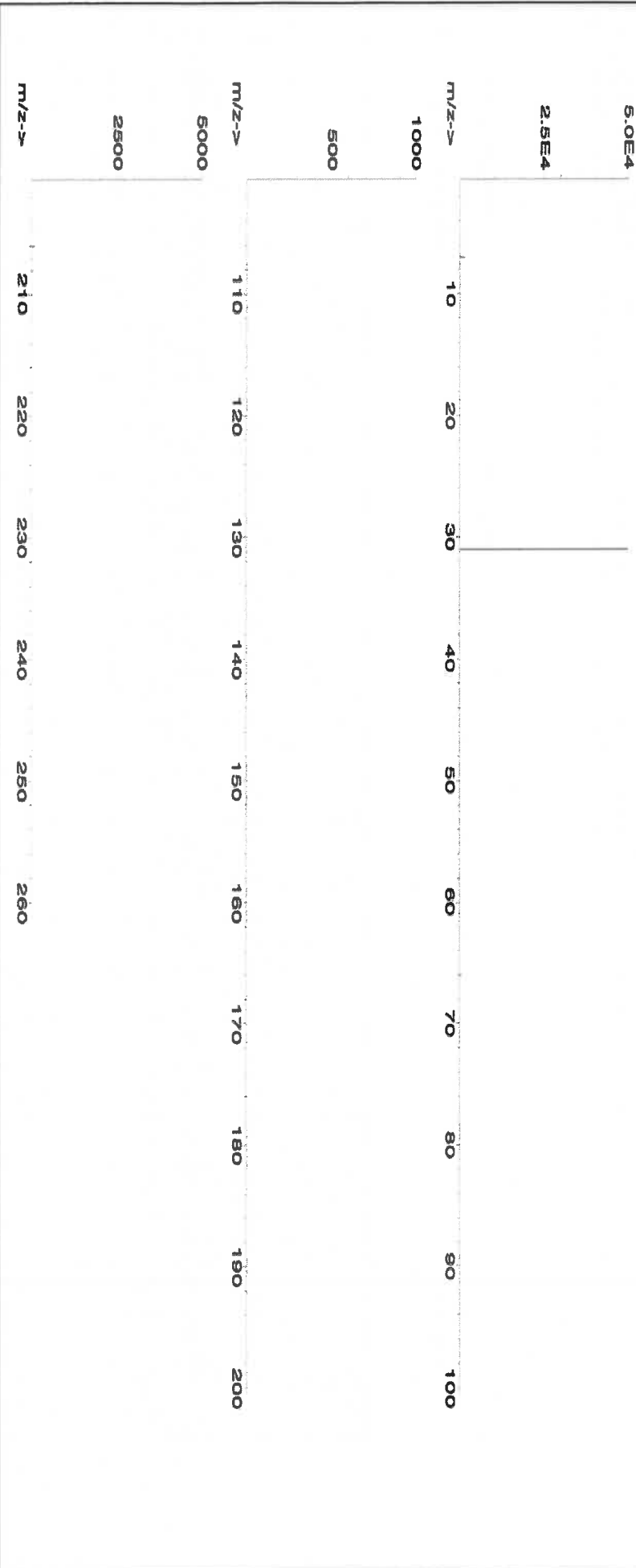
Weight shown below was diluted to (mL): 2000.02 0.058 Balance Uncertainty Flask Uncertainty

Compound

RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Ammonium dihydrogen phosphate (P) IN008 PVO82019A1 1000 99.999 0.10 27.5 7.2729 7.2730 1000.0 2.0 7722-76-1 5 mg/m3 xH-rat >2000mg/kg 3186

[1] Spectrum No.1 [12.074 sec]:58115.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Tc	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sa	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

MS961 R-1 6/11/24

Lot #

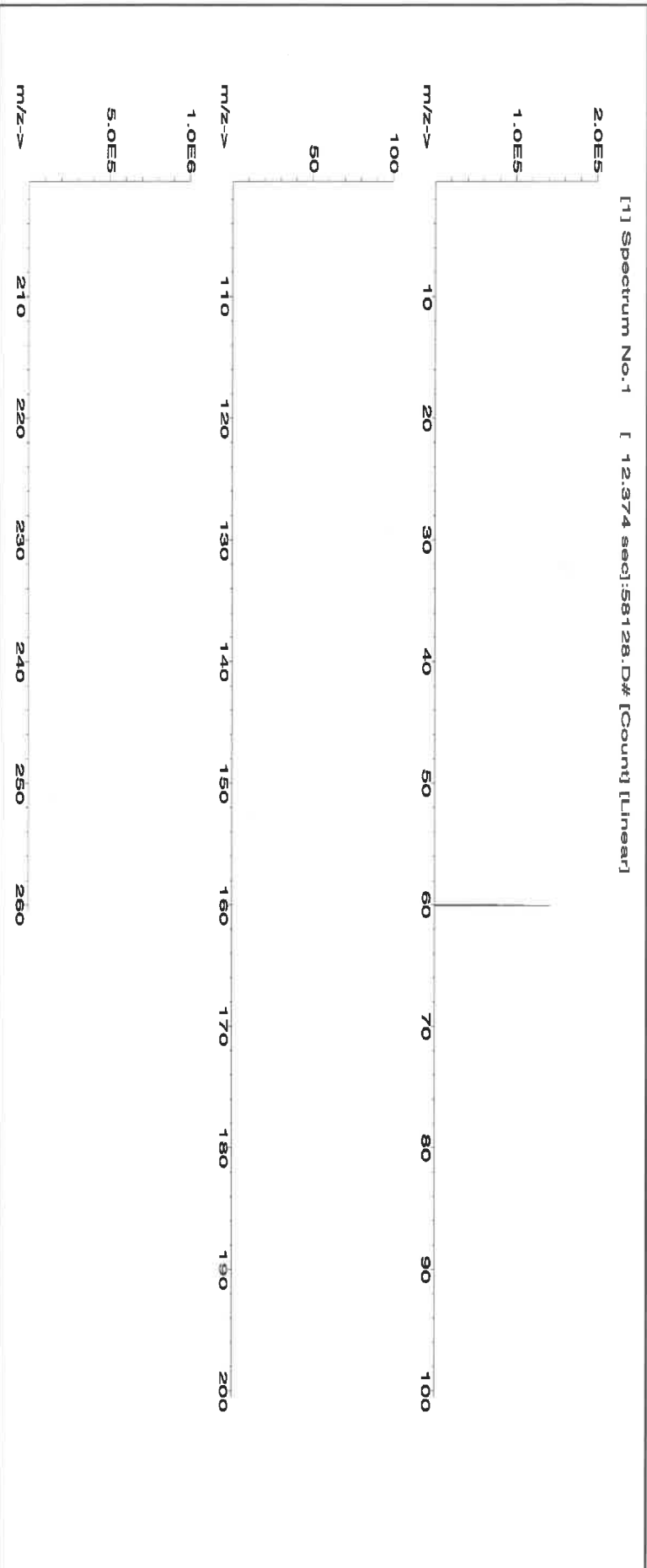
Part Number: 57028
Lot Number: 041124
Description: Nickel (NI)
Solvent: 24002546 Nitric Acid
Expiration Date: 041127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 249.85
5E-05 Balance Uncertainty
0.002 Flask Uncertainty
2% 5.0 (mL) Nitric Acid

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	SRM

1. Nickel(II) nitrate hexahydrate (NI) IN033 NIM052023A1 1000 99.999 0.10 20.2 1.2369 1.2369 1000.0 2.0 13478-00-7 1 mg/m3 or-rat 1620 mg/kg 3136





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Ba	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Bc	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

MS962 **R10614124**

Lot # **24002546** Solvent: **Nitric Acid**

Part Number: **57034**
Lot Number: **060624**
Description: **Selenium (Se)**

2.0% 40.0 (mL) Nitric Acid

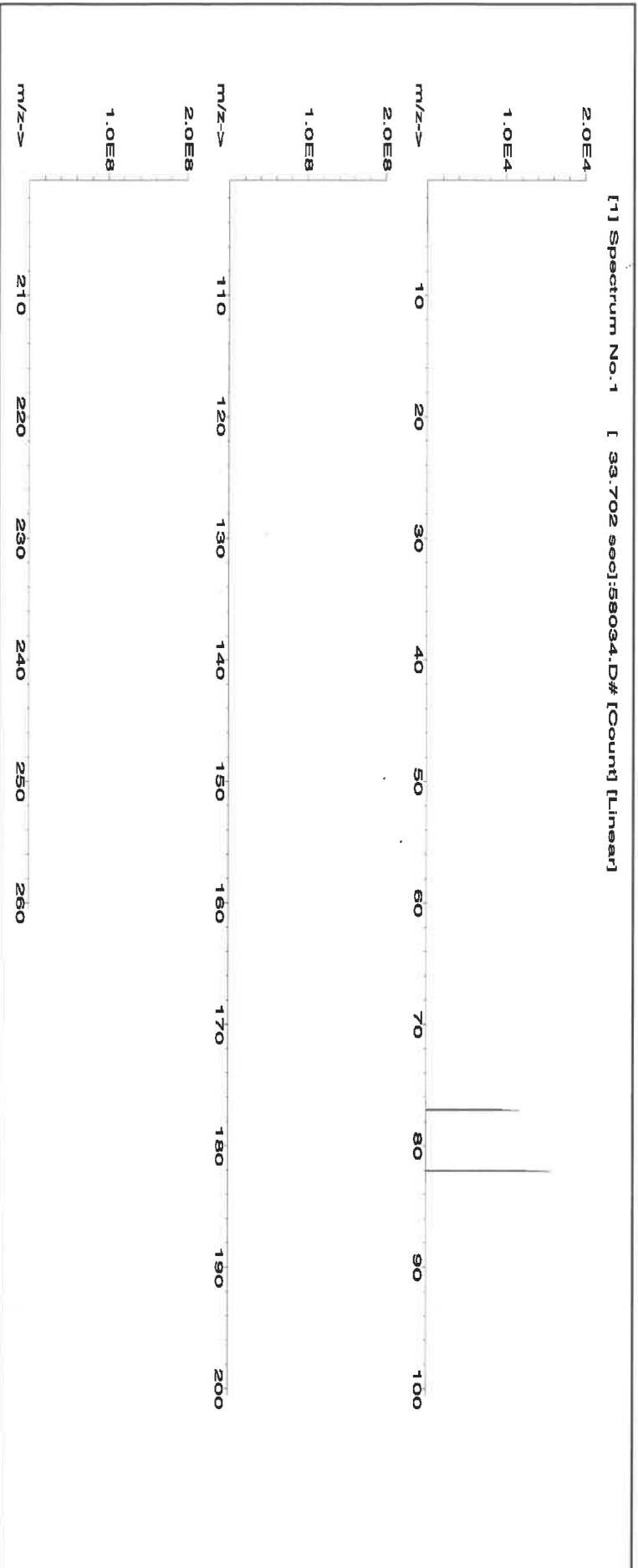
Expiration Date: **060627**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6UTB**
Volume shown below was diluted to (mL): **2000.07**
SE-05 Balance Uncertainty **0.100** Flask Uncertainty

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rantas	060624

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LDSO	NIST SRM

1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	1000.0	2.2	7782-49-2	0.2 mg/m3	or-tral 6700 mg/kg	3149





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.02	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Bu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Ru	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Sr	<0.02	S	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	Ta	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02			Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Certificate of Analysis

M5976, M5977

R: 02/22/24

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: CGMO1
Lot Number: T2-MO720876
Matrix: H2O
tr. NH4OH
Value / Analyte(s): 1 000 µg/mL ea:
Molybdenum
Starting Material: Ammonium Molybdate
Starting Material Lot#: 2361
Starting Material Purity: 99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL
Density: 1.000 g/mL (measured at 20 ± 4 °C)
Assay Information:

Assay Method #1 998 ± 4 µg/mL
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9

[MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.569.6799; 540.585.3030, Fax: 540.585.3012; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Certificate of Analysis



Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

R: 2/22/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution

Catalog Number: CGT1

Lot Number: T2-T1719972

Matrix: 2% (v/v) HNO₃

Value / Analyte(s): tr. HF

Starting Material: 1 000 µg/mL ea.

Starting Material: Titanium

Starting Material: Ti Metal

Starting Material Lot#: 2094

Starting Material Purity: 99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Method #1

1002 ± 4 µg/mL

ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods
Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = (k_p) (V_{char})$
 X_p = mean of Assay Method A with

$U_{char A}$ = the standard uncertainty of characterization Method A

$U_{char A} = (U_{char A}^2 + U_{lab}^2 + U_{rep}^2)^{1/2}$

$U_{char A} = (U_{char A}^2 + U_{lab}^2 + U_{rep}^2)^{1/2}$

$U_{char A} = (U_{char A}^2 + U_{lab}^2 + U_{rep}^2)^{1/2}$

$U_{char A} = (U_{char A}^2 + U_{lab}^2 + U_{rep}^2)^{1/2}$

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$U_{char A} = (U_{char A}^2 + U_{lab}^2 + U_{rep}^2)^{1/2}$

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$U_{char A} = (U_{char A}^2 + U_{lab}^2 + U_{rep}^2)^{1/2}$

$U_{char A} = (U_{char A}^2 + U_{lab}^2 + U_{rep}^2)^{1/2}$

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$U_{char A} = (U_{char A}^2 + U_{lab}^2 + U_{rep}^2)^{1/2}$

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 UHPA-filtered Clean Room. An UHPA-filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M Ag	<	0.000536	M Eu	<	0.000268	O Na	<	0.032670	M Se	<	0.001204	O Zn	<	0.003267
M Al	<	0.000872	O Fe	<	0.003225	O Nb	<	0.043560	O Si	<	0.004735	O Zr	<	0.043560
M As	<	0.008586	M Ga	<	0.000268	M Nd	<	0.000268	M Sm	<	0.000268			
M Au	<	0.004577	M Gd	<	0.000268	O Ni	<	0.010890	M Sn	<	0.000986			
O B	<	0.008929	M Ge	<	0.002146	M Os	<	0.000269	O Sr	<	0.000986			
M Ba	<	0.002683	M Hf	<	0.002161	O P	<	0.054450	M Ta	<	0.010560			
M Be	<	0.005366	M Hg	<	0.003231	M Pb	<	0.001073	M Tb	<	0.000268			
M Bi	<	0.001609	M Ho	<	0.000268	M Pd	<	0.000268	M Th	<	0.001341			
O Ca	<	0.000676	M In	<	0.002683	M Pr	<	0.000268	M Tl	<	0.053663			
M Cd	<	0.000268	M Ir	<	0.000269	M Pt	<	0.000536	S Tl	<				
M Co	<	0.000268	M K	<	0.001172	M Rb	<	0.000268	M Ti	<	0.000268			
M Cr	<	0.000752	O Li	<	0.000268	M Re	<	0.000268	M Tm	<	0.000268			
M Cs	<	0.000268	M Lu	<	0.000268	M Rh	<	0.000268	M U	<	0.000268			
O Cu	<	0.010890	O Mg	<	0.005445	I S	<	0.006976	M Y	<	0.002146			
M Dy	<	0.000268	O Mn	<	0.003267	M Sb	<	0.004900	M Yb	<	0.000536			
M Er	<	0.000268	M Mo	<	0.000774	O Sc	<							

6.0 INTENDED USE

M - Checked by ICP-MS
O - Checked by ICP-OES
I - Spectral Interference
n - Not Checked For
s - Solution Standard Element

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 ± 4.6 Ti(F)₆-2 media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)₆-2 for months in 1% HNO₃ / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)₆-2 chemically stable for years in 2-5% HNO₃ / trace HF in an LDPE container.

TI Containing Samples (Preparation and Solution) - Metal (Soluble in H₂O / HF caution - powder reacts violently). Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H₂O / HF / H₂SO₄); K₂SiO₃ - no KF if silica not present); Organic Matrices (Dry ash at 450°C in P10 and dissolve by heating with 1:1:1 H₂O / HF / H₂SO₄ or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystaline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	14 ppt
ICP-MS 48 amu		

HAZARDOUS INFORMATION

HF Note: This standard should not be prepared or stored in glass.

ICP-OES 323.452 nm	ICP-OES 334.941 nm	ICP-OES 336.121 nm
0.0054 / 0.00092 µg/mL	0.0038 / 0.00028 µg/mL	0.0053 / 0.00034 µg/mL

1 W, Mo, Co
1 Nb, Ta, Cr, U
1 Ce, Ar, Ni
Ru
(where X = Zr, Mo,
14N17N2, 36Ar12C,
48Ca, 196X=2
14N16O18O,
32S16O, 32S14N,
N/A

8.0 HOMOGENEITY

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 QUALITY STANDARD DOCUMENTATION

- 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.

10.1 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: 800.868.6786; 540.565.3030; Fax: 540.565.3030; Email: info@inorganicventures.com

11.0

CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date:

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0

NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozlikowski
Manager, Quality Control

TD9784

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R. Gaines



MS981

R: 6/11/24



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57092
060724
Uranium (U)

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

060727
Ambient (20 °C)
1000
6UTB

Volume shown below was diluted to (mL): 2000.07

5E-05 Balance Uncertainty
0.100 Flask Uncertainty

Lot # Solvent:
24002546 Nitric Acid

2.0% Nitric Acid
40.0 (mL)

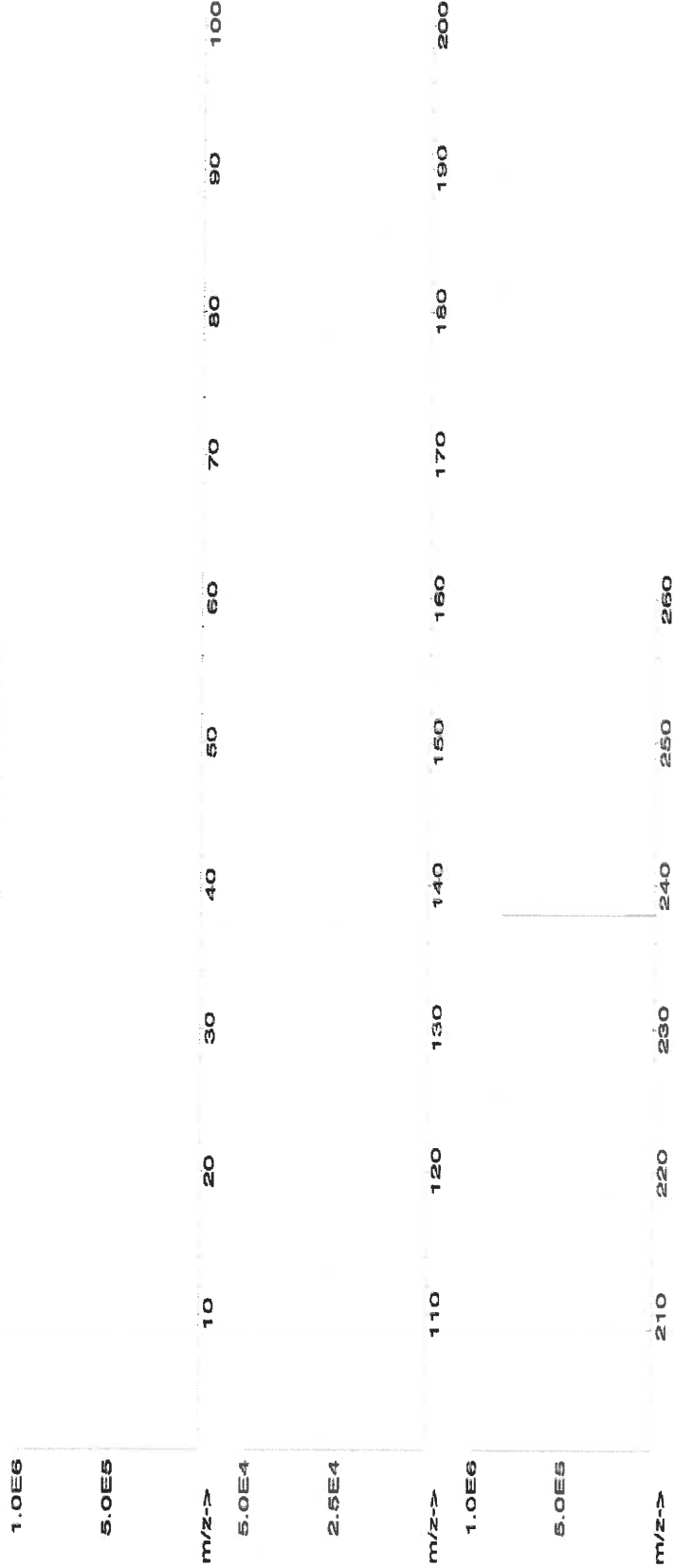
<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Uranyl nitrate hexahydrate (U) 58192 041524 0.1000 200.0 0.084 1000 10001.5 1000.0 2.2 13620-83-7 0.05 mg/m3 orl-rat 1040 mg/kg 3164

[1] Spectrum No.1 [23.264 sec]:57092.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.2	Fe	<0.02	Hg	<0.2	P	<0.2	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.2	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

[Signature]

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

7236 673 3.67



45982

R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57038
031524
Strontium (Sr)

Solvent: 24002546 Nitric Acid

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

031527
Ambient (20 °C)
1000
6UTB
5E-05 Balance Uncertainty
0.100 Flask Uncertainty

Weight shown below was diluted to (mL): 2000.07

Lot #

2% 40.0 Nitric Acid
(mL)

Formulated By:	Benson Chan	031524
Reviewed By:	Pedro L. Rentas	031524

SDS Information

Expanded

Uncertainty

(Solvent Safety Info. On Attached pg.)

+/- (µg/mL)

LD50

CAS#

OSHA PEL (TWA)

Actual

Conc. (µg/mL)

Actual

Weight (g)

Target

Weight (g)

Assay

Purity (%)

Purity (%)

Nominal

Conc. (µg/mL)

Lot

Number

RM#

IN017

SR2022018A1

1000

89.997

0.10

41.2

4.85470

4.85502

1000.1

2.0

10042-76-9

NA

orl-rat >2000mg/kg

3153a

1. Strontium nitrate (Sr)

[1] Spectrum No.1 [14.495 sec]:58136.D# [Count] [Linear]

5.0E6

2.5E6

m/z-->

1.0E6

5.0E5

m/z-->

5.0E6

2.5E6

m/z-->



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Ti	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02
																W	<0.02
																U	<0.02
																V	<0.02
																Yb	<0.02
																Y	<0.02
																Zn	<0.02
																Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

2024 JUN 7 10:01 AM



145983

R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57040
071423
Zirconium (Zr)

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test Number:

071426
Ambient (20 °C)
1000
6UTB

Volume shown below was diluted to (mL): 2000.02

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Lot # Solvent:
21110221 Nitric Acid

2.0% Nitric Acid
40.0 (mL)

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Rentas

Expanded
Uncertainty
+/- (µg/mL)

Final
Conc. (µg/mL)

Nominal
Conc. (µg/mL)

Initial
Vol. (mL)

Dilution
Factor

Part
Number

Lot
Number

Compound

1. Zirconyl chloride octahydrate (Zr)

NIST
SRM

LD50

CAS# OSHA PEL (TWA)

13520-92-8

2.2

1000.0

10000.3

1000

0.084

200.0

0.1000

58140

070621

NA

NA

NA

[1] Spectrum No.1 [41.153 sec]:57040.D# [Count] [Linear]

1.OE6

5.OE5

m/z-->

1.OE8

5.OE7

m/z-->

1.OE8

5.OE7

m/z-->



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.02	Os	<0.01	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.2	Fe	<0.02	Hg	<0.2	P	<0.2	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.02	Sc	<0.2	Ta	<0.02	Ti	<0.02	Zr	<0.02
																			T

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

[Signature]

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/2024
M5999

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: CLPP-SPK-1
Lot Number: T2-MEB721963
Matrix: 7% (v/v) HNO₃
Value / Analyte(s):
2 000 µg/mL ea: Aluminum, Barium,
1 000 µg/mL ea: Iron,
500 µg/mL ea: Manganese, Nickel,
Vanadium, Zinc,
Cobalt,
250 µg/mL ea: Copper,
200 µg/mL ea: Chromium,
50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, 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:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{tts}}^2 + u_{\text{ts}}^2)^{1/2}$$

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_{tts} = 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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{tts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{tts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

<https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver>

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





Certified Reference Material CRM
R: 01/03/24 M6033



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://AbsoluteStandards.com

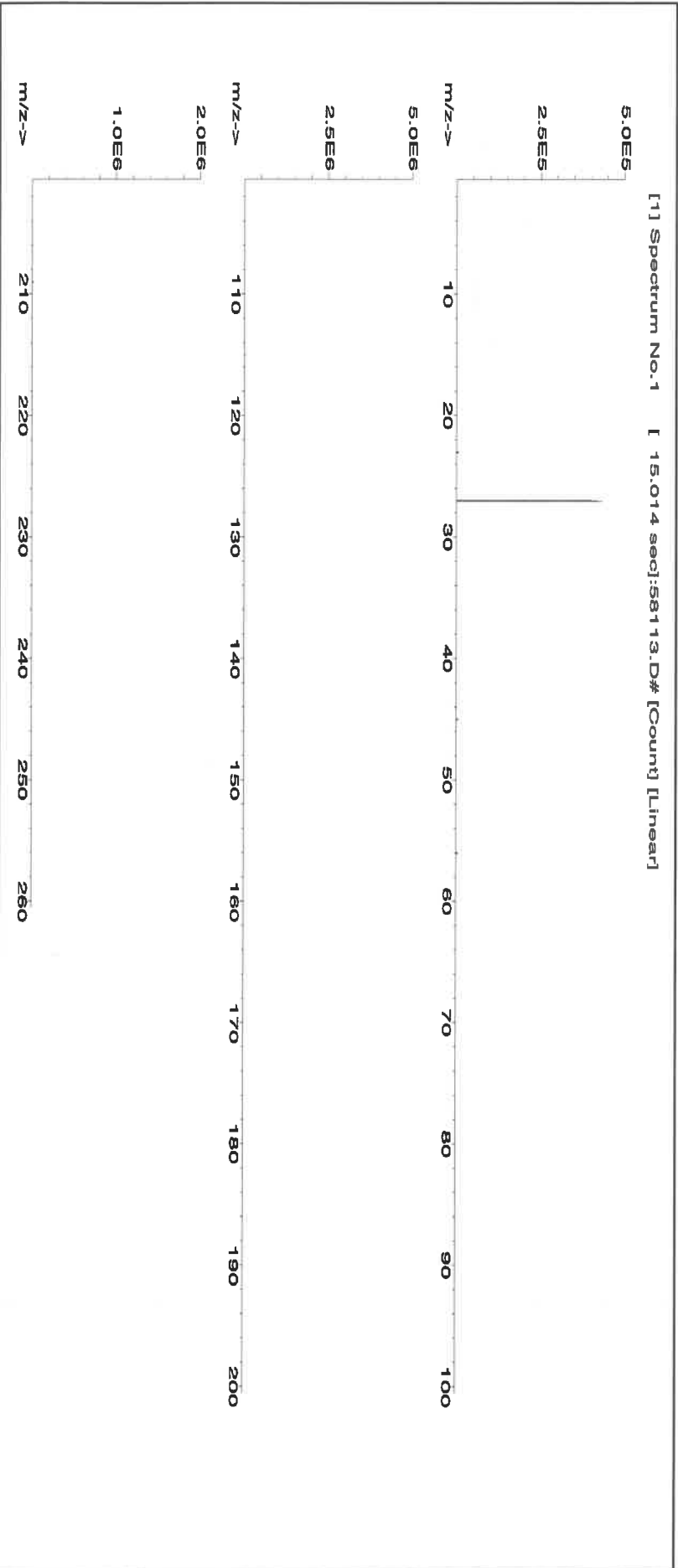
CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 011623
Description: Aluminum (Al)
Expiration Date: 011626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6LUTB
Weight shown below was diluted to (mL): 2000.02
Solvent: 20510011 Nitric Acid
Lot #
2% 40.0 (mL) Nitric Acid
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

<i>Giovanni Esposito</i>	
Formulated By:	Giovanni Esposito
Reviewed By:	<i>Pedro L. Rentas</i>
	Pedro L. Rentas
	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Aluminum nitrate nonahydrate (Al) IN022 ALUM12021A1 10000 99.999 0.10 7.30 273.9779 274.0078 10001.1 20.0 7784-27-2 2 mg/m³ or rat 3671 mg/kg 3101a



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Received! — 08/01/2024
pater
m6039
m6040

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

18/19/24, M6055

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: IV-STOCK-12
Lot Number: U2-MEB734294
Matrix: 5% (v/v) HNO₃
Value / Analyte(s): 10 µg/mL ea:
Barium, Beryllium,
Bismuth, Cerium,
Cobalt, Indium,
Lithium, Nickel,
Lead, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.01 ± 0.04 µg/mL	Beryllium, Be	10.01 ± 0.05 µg/mL
Bismuth, Bi	10.01 ± 0.06 µg/mL	Cerium, Ce	10.01 ± 0.04 µg/mL
Cobalt, Co	10.01 ± 0.05 µg/mL	Indium, In	10.01 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.01 ± 0.04 µg/mL
Nickel, Ni	10.01 ± 0.04 µg/mL	Uranium, U	10.01 ± 0.05 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, 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:

$$w_i = (1/u_{\text{char } i})^2 / (\sum (1/(u_{\text{char } i})^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

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_{ts} = 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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, <https://www.inorganicventures.com/terms-and-conditions-sale>. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.
- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



M6094
M6095

metdig
10/21/24

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

avantor™



Receive:
9/29/24
met dig

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

 **avantor**TM



Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

 **avantorsTM**

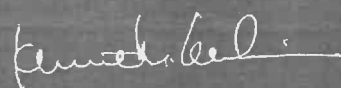


Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Ken Koehnlein
Sr. Manager, Quality Assurance

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™



R → 16/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	≤ 0.005 %	< 0.005
ACS – Extractable Organic Substances	≤ 5 ppm	1
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3
Sulfite (SO ₃)	≤ 0.8 ppm	0.3
Ammonium (NH ₄)	≤ 3 ppm	< 1
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	≤ 5 ppb	< 3
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	29.7
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	< 1
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

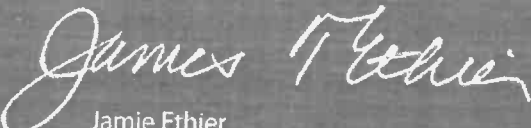
Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier

Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Nitric Acid 69%
CMOS



R → 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

 **avantor**TM



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production



CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Solvent: 24002546 Nitric Acid

Lot #

Expiration Date: 122226

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 10000

NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

<i>Aleah O Brady</i>	
Formulated By:	Aleah O Brady
Reviewed By:	Pedro L. Rentas
	122223

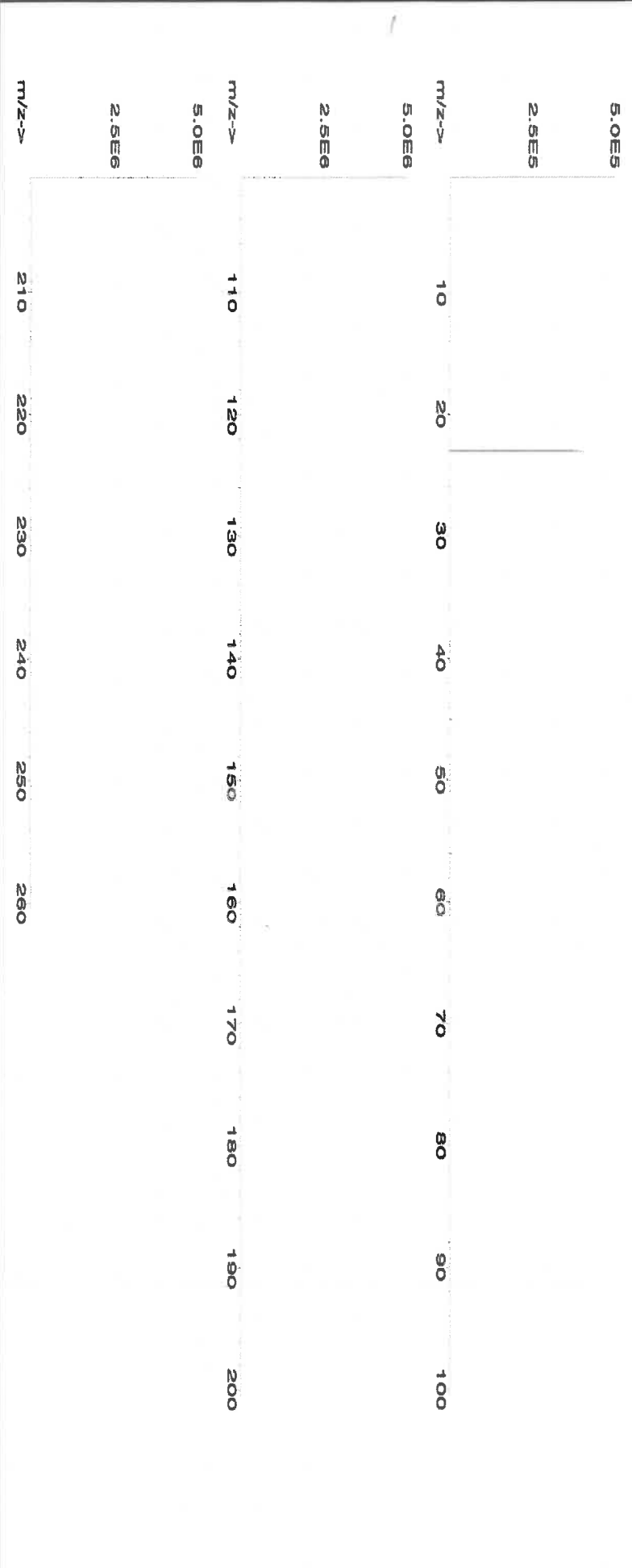
Expanded

SDS Information

Compound	Lot	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Sodium nitrate (Na) IN036 NAV01201511 10000 99.999 0.10 26.9 111.5406 111.5479 10000.7 20.0 7631-99-4 5 mg/m3 or-trat 3430 mg/kg 3152a

[1] Spectrum No.1 [8.935 sec]:58111.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.02	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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: 6020ISS
Lot Number: S2-MEB709511
Matrix: 7% (v/v) HNO₃
Value / Analyte(s): 10 µg/mL ea:
Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 03, 2026**

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____
- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





**QATS LABORATORY INORGANIC REFERENCE MATERIAL
 INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)**

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
 Available Upon Request

(A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
 APTIM Federal Services, LLC
 2700 Chandler Avenue - Building C
 Las Vegas, NV 89120

(C) ANALYSIS OF SAMPLES

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO₃. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO₃. Analyze this ICSAB solution by ICP-MS.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803							
Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[] Indicates analytes that do not require ICP-MS determination in the ICS.

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.



**QATS LABORATORY INORGANIC REFERENCE MATERIAL
 INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)**

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
 Available Upon Request

(A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
 APTIM Federal Services, LLC
 2700 Chandler Avenue - Building C
 Las Vegas, NV 89120

(C) ANALYSIS OF SAMPLES

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO₃. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO₃. Analyze this ICSAB solution by ICP-MS.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803							
Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[] Indicates analytes that do not require ICP-MS determination in the ICS.

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.



CERTIFIED WEIGHT REPORT:

Part Number:
Lot Number:
Description:

57051
120523
Antimony (Sb)

Lot #
Solvent:

24002546
Nitric Acid

2.0%
60.0
Nitric Acid
(mL)

Expiration Date:

120526

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6U7B

Volume shown below was diluted to (mL):

3000.41

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

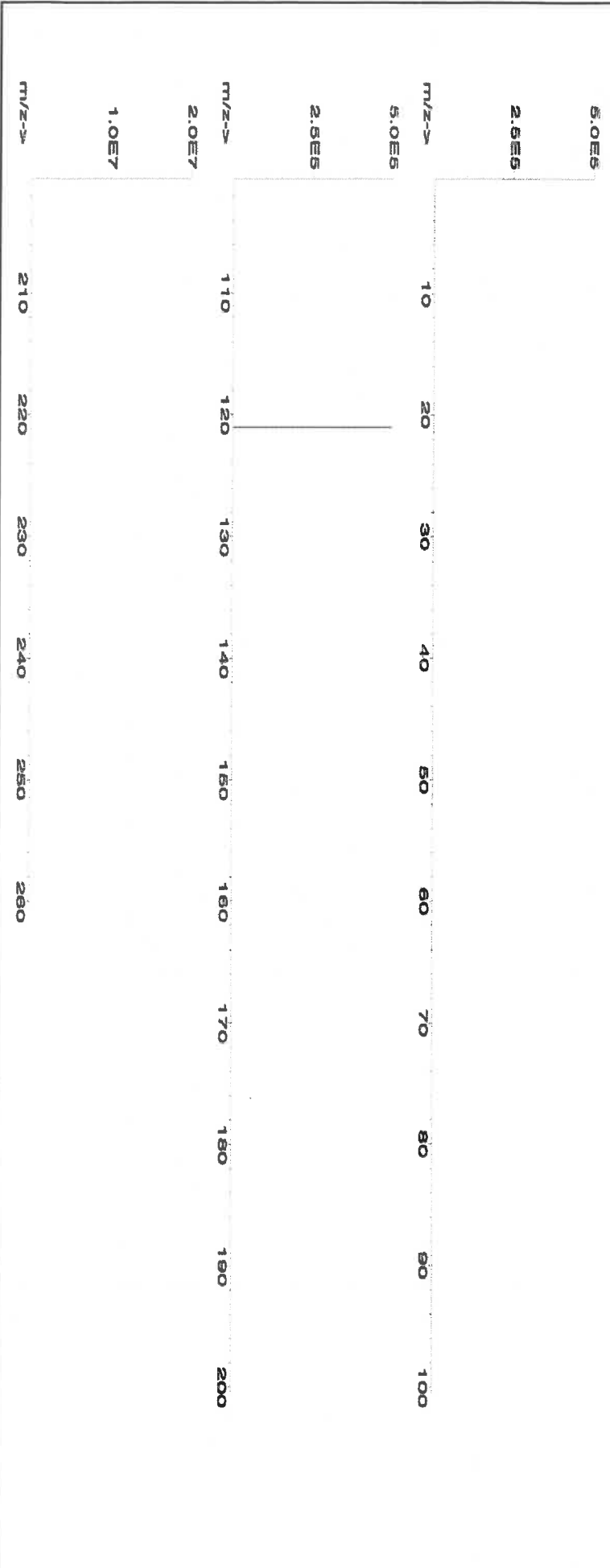
Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Renteria	120523

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Antimony (Sb)	58151	100923	0.1000	300.0	0.084	1000	10001.4	1000.0	2.1	7440-36-0	0.5 mg/m3	or-rel 7000 mg/kg	3102a

[1] Spectrum No.1 [17.964 sec]:58051.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



M6030



CERTIFIED WEIGHT REPORT:

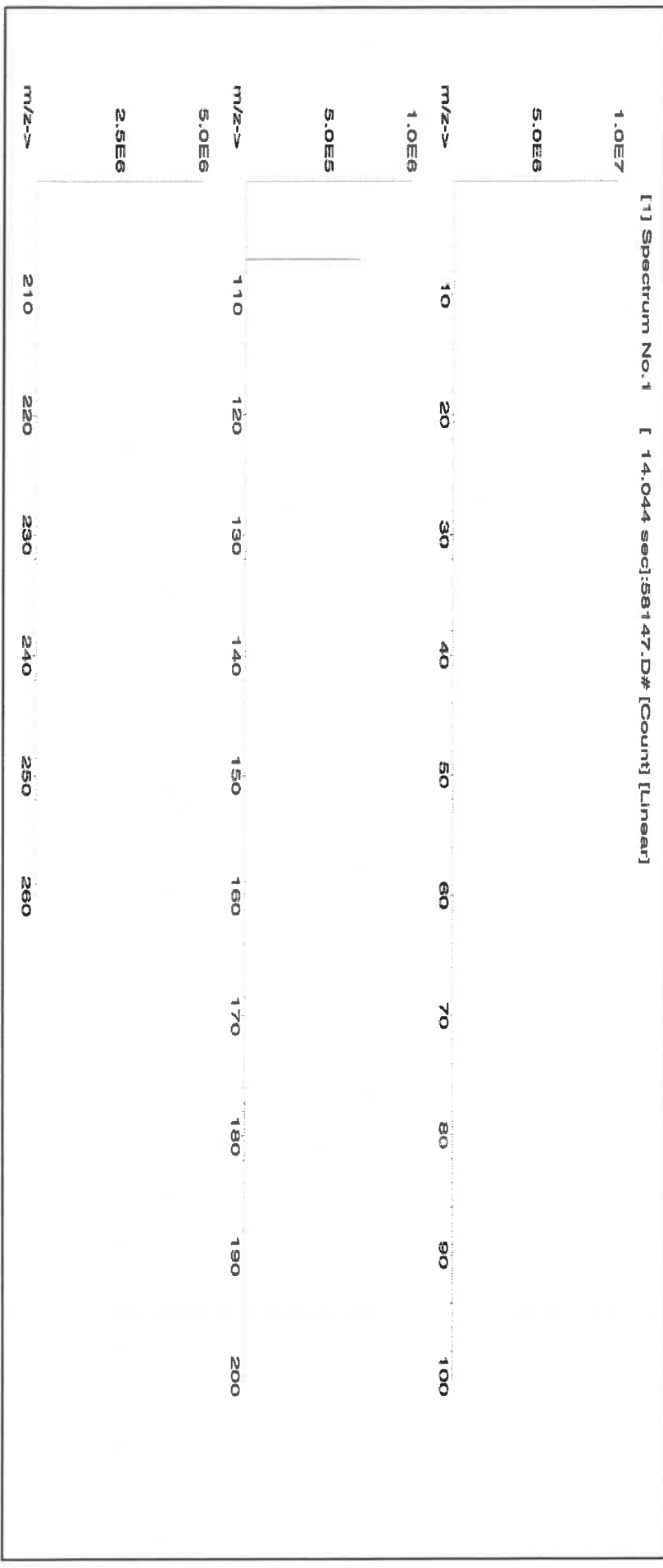
Part Number: **57047**
Lot Number: **122823**
Description: **Silver (Ag)**
Solvent: **24002546 Nitric Acid**

Expiration Date: **122826**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6UTB**
Weight shown below was diluted to (mL): **4000.30**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan
Reviewed By:	Pedro L. Rentas
122823	

SDS Information									
Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)
1. Silver nitrate (Ag)	IN035	J0612AGAI	1000.0	99.999	0.10	63.7	6.27992	6.27998	1000.0

[1] Spectrum No. 1 [14.044 sec]:58147.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 meghm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

R: 03/16/23 MS473 MS474 MS475 MS476

Lot #

Part Number:

56138

Solvent: 20510011

Nitric Acid

Lot Number:

082922

Description:

Strontium (Sr)

2% 20.0 (mL)

Nitric Acid

Expiration Date:

082925

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

10000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL):

1000.12

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry
	082922
Reviewed By:	Pedro L. Renteria
	082922

SDS Information

Compound

RM#

Lot

Number

Nominal

Purity (%)

Uncertainty (%)

Assay (%)

Target

Weight (g)

Actual

Weight (g)

Actual

Conc. (µg/mL)

Expanded

Uncertainty

CAS#

OSHA PEL (TWA)

LD50

SRM

NIST

or-rat >2000mg/kg 3153a

1. Strontium nitrate (Sr)

IN017 SR2022018A1

10000

99.997

0.10

41.2

24.2756

24.2758

10000.1

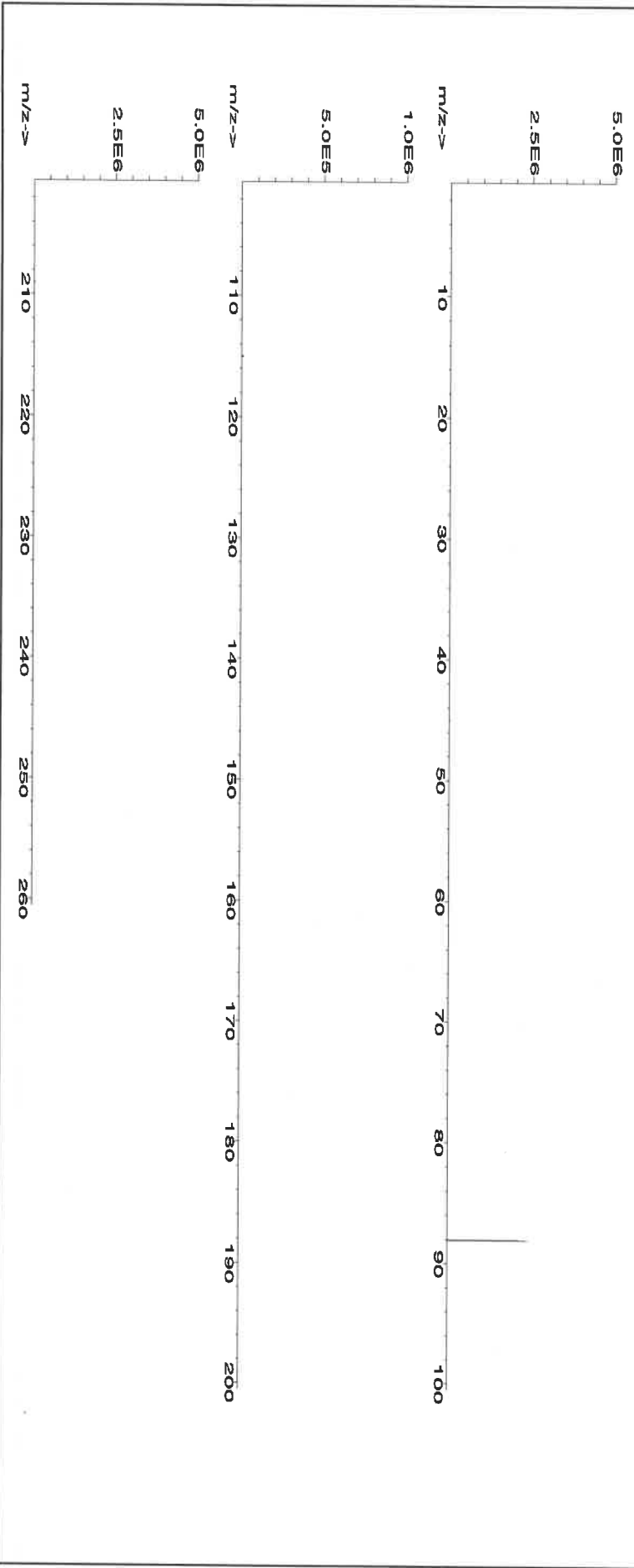
20.0

10042-76-9

NA

or-rat >2000mg/kg 3153a

[1] Spectrum No. 1 [14.495 sec]: 56138.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number: 57081
Lot Number: 062724
Description: Thallium (TI)

Lot #

Solvent: 24002546 Nitric Acid

2% 40.0 Nitric Acid (mL)

Expiration Date:

062727

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL): 2000.1

5E-05 Balance Uncertainty
0.10 Flask Uncertainty

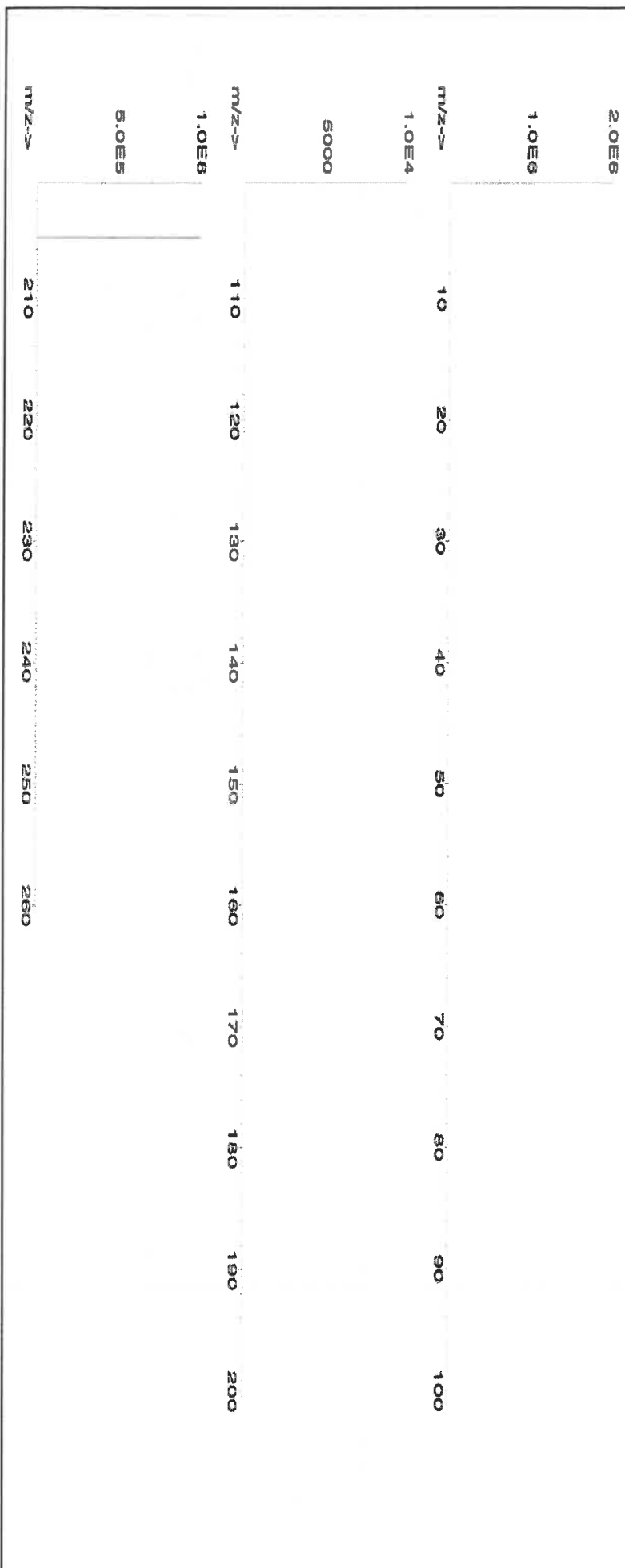
<i>Aleah O'Brady</i>	
Formulated By:	Aleah O'Brady
	062724
Reviewed By:	<i>Pedro L. Renias</i>
	Pedro L. Renias
	062724

SDS Information

Compound	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Thallium nitrate (TI) IN037 BCCF4399 1000 99.999 0.10 77.0 2.5975 2.5977 1000.1 2.0 10102-45-1 0.1 mg/m3 or-mus 15mg/kg 3158

[1] Spectrum No.1 [14.044 sec]:57081.D# [Count] [Linear]





Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pt	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Tm	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Sn	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Ti	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02			Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard containers are meticulously cleaned prior to use.
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All Standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



Certified Reference Material CRM

M6021



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57023
Lot Number: 062424
Description: Vanadium (V)

Lot # 24002546
Solvent: Nitric Acid

2.0%

40.0 (mL)

Nitric Acid

Formulated By: *Aleah O'Brady*
Aleah O'Brady 062424

Reviewed By: *Pedro L. Rantas*
Pedro L. Rantas 062424

Expiration Date: 062427
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000

NIST Test Number: 6UTB

Volume shown below was diluted to (mL): 2000.3

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Expanded

SDS Information

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	OSHA PEL (TWA)	LD50	NIST SRM

1. Ammonium metavanadate (V) 58123 021224 0.1000 200.0 0.084 1000 10000.3 10000.0 2.2 7803-55-6 0.05 mg/m3 or-at 58.1mg/kg 3165

[1] Spectrum No.1 [34.243 sec]:58023.D# [Count] [Linear]

2.0E6	m/z-->	10	20	30	40	50	60	70	80	90	100
1.0E7	m/z-->	110	120	130	140	150	160	170	180	190	200
5.0E8	m/z-->	210	220	230	240	250	260				
2.5E9	m/z-->										

SOP ID : M200.8-Trace Elements-22, MSFAM01.1-Metals ICPMS-2

SDG No : ME28N9

Matrix : SOIL

Pipette ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 12/10/2024 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 12/10/2024 **Time :** 14:40 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: *SKG*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP83046
Spike Sol. B	1.00	MP83047
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	4.00	MP83498
1:4 HCl Solution	10.00	MP82128
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#3 CELL#34 Temp:96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/10/24 13:30	<i>SKG. met digestion</i>	<i>[Signature]</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P5154-01	ME28N9	N/A	1.39	500	Brown	Yellow	Medium	N/A	N/A	1
P5154-02	ME28P0	N/A	1.17	500	Brown	Yellow	Medium	N/A	N/A	2
P5154-03	ME28P1	N/A	1.11	500	Brown	Yellow	Medium	N/A	N/A	3
P5154-04	ME28P2	N/A	1.21	500	Brown	Yellow	Medium	N/A	N/A	4
P5154-05	ME28P3	N/A	1.15	500	Brown	Yellow	Medium	N/A	N/A	5
P5154-06	ME28P4	N/A	1.14	500	Brown	Yellow	Medium	N/A	N/A	6
P5154-07	ME28P5	N/A	1.23	500	Brown	Yellow	Medium	N/A	N/A	7
P5154-08	ME28P6	N/A	1.19	500	Brown	Yellow	Medium	N/A	N/A	8
P5154-09	ME28P7	N/A	1.25	500	Brown	Yellow	Medium	N/A	N/A	9
P5154-10	ME28P8	N/A	1.15	500	Brown	Yellow	Medium	N/A	N/A	10
P5154-11	ME28P9	N/A	1.12	500	Brown	Yellow	Medium	N/A	N/A	11
P5154-12	ME28Q0	N/A	1.19	500	Brown	Yellow	Medium	N/A	N/A	12
P5154-13	ME28Q1	N/A	1.11	500	Brown	Yellow	Medium	N/A	N/A	13
P5154-14	ME28Q2	N/A	1.11	500	Brown	Yellow	Medium	N/A	N/A	14
P5154-15	ME28Q3	N/A	1.24	500	Brown	Yellow	Medium	N/A	N/A	15
P5154-16	ME28Q4	N/A	1.14	500	Brown	Yellow	Medium	N/A	N/A	16
P5154-17	ME28Q4D	N/A	1.25	500	Brown	Yellow	Medium	N/A	N/A	17
P5154-18	ME28Q4S	N/A	1.29	500	Brown	Yellow	Medium	N/A	MP83047	18
P5154-19	ME28Q5	N/A	1.10	500	Brown	Yellow	Medium	N/A	N/A	19
P5154-20	ME28R3	N/A	1.20	500	Brown	Yellow	Medium	N/A	N/A	20
P5154-21	ME28R4	N/A	1.20	500	Brown	Yellow	Medium	N/A	N/A	21
PB165532BL	PBS532	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	22
PB165532BS	LCS532	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP83046	23

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134068

Review By	Sarabjit Jaswal	Review On	12/25/2024 3:48:44 AM
Supervise By	Mohan Bera	Supervise On	12/25/2024 3:49:22 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83619,MP83628,MP83627,MP83625,MP83623,MP83622,MP83621,MP83620,MP83636		
ICV Standard	MP83629		
CCV Standard	MP83632		
ICSA Standard	MP83630,MP83631		
CRI Standard	M5751,M5961		
LCS Standard	MP83046		
Chk Standard	MP83635,MP83634		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE007	TUNE	12/23/24 10:04		Jaswal	OK
2	S00	S0	CAL1	12/23/24 10:59		Jaswal	OK
3	S02	S02	CAL3	12/23/24 11:05		Jaswal	OK
4	S03	S03	CAL4	12/23/24 11:09		Jaswal	OK
5	S04	S04	CAL5	12/23/24 11:12		Jaswal	OK
6	S05	S05	CAL6	12/23/24 11:14		Jaswal	OK
7	S06	S06	CAL7	12/23/24 11:17		Jaswal	OK
8	S07	S07	CAL8	12/23/24 11:20		Jaswal	OK
9	S08	S08	CAL9	12/23/24 11:23		Jaswal	OK
10	ICV007	ICV007	ICV	12/23/24 12:06	Inst. paused for Calibration review	Jaswal	OK
11	ICB007	ICB007	ICB	12/23/24 12:25	Inst. paused for review	Jaswal	OK
12	ICSA007	ICSA007	ICSA	12/23/24 12:29		Jaswal	OK
13	ICSAB007	ICSAB007	ICSAB	12/23/24 12:32		Jaswal	OK
14	CCV041	CCV041	CCV	12/23/24 12:35		Jaswal	OK
15	CCB041	CCB041	CCB	12/23/24 12:43	Inst. paused for review	Jaswal	OK
16	PB165834BL	PBW834	MB	12/23/24 12:56	Not Use	Jaswal	Not Ok
17	PB165834BS	LCS834	LCS	12/23/24 12:59	Not Use	Jaswal	Not Ok
18	P5306-02DL	OU4-VSL-07-121224	SAM	12/23/24 13:02	Not Use	Jaswal	Not Ok

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134068

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ICV Standard	MP83629
CCV Standard	MP83632
ICSA Standard	MP83630,MP83631
CRI Standard	M5751,M5961
LCS Standard	MP83046
Chk Standard	MP83635,MP83634

19	P5306-02DUPDL	OU4-VSL-07-121224	DUP	12/23/24 13:05	Not Use	Jaswal	Not Ok
20	P5306-02LDL	OU4-VSL-07-121224	SD	12/23/24 13:08	Not Use	Jaswal	Not Ok
21	P5306-02MSDL	OU4-VSL-07-121224	MSD	12/23/24 13:11	Not Use	Jaswal	Not Ok
22	P5306-02MSDDL	OU4-VSL-07-121224	MSD	12/23/24 13:14	Not Use	Jaswal	Not Ok
23	P5306-02ADL	OU4-VSL-07-121224	PS	12/23/24 13:17	Not Use	Jaswal	Not Ok
24	CCV042	CCV042	CCV	12/23/24 13:20		Jaswal	OK
25	CCB042	CCB042	CCB	12/23/24 13:23		Jaswal	OK
26	P5306-04DL	OU4-VSL-08-121224	SAM	12/23/24 13:27	Not Use	Jaswal	Not Ok
27	P5306-06DL	OU4-VSL-09-121224	SAM	12/23/24 13:30	Not Use	Jaswal	Not Ok
28	P5306-08DL	OU4-VSL-10-121224	SAM	12/23/24 13:33	Not Use	Jaswal	Not Ok
29	P5306-10DL	OU4-VSL-11-121224	SAM	12/23/24 13:36	Not Use	Jaswal	Not Ok
30	P5306-12DL	OU4-VSL-12-121224	SAM	12/23/24 13:39	Not Use	Jaswal	Not Ok
31	P5306-14DL	OU4-VSL-13-121224	SAM	12/23/24 13:43	Not Use	Jaswal	Not Ok
32	P5306-16DL	OU4-VSL-14-121224	SAM	12/23/24 13:46	Not Use	Jaswal	Not Ok
33	P5306-18DL	OU4-VSL-06R-121224	SAM	12/23/24 13:49	Not Use	Jaswal	Not Ok
34	PB165699TB	PB165699TB	MB	12/23/24 13:52	Not Use	Jaswal	Not Ok
35	CCV043	CCV043	CCV	12/23/24 13:55		Jaswal	OK
36	CCB043	CCB043	CCB	12/23/24 13:58		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134068

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ICV Standard	MP83629
CCV Standard	MP83632
ICSA Standard	MP83630,MP83631
CRI Standard	M5751,M5961
LCS Standard	MP83046
Chk Standard	MP83635,MP83634

37	P5184-20A	MYCZF8ARE	PS	12/23/24 14:01	PS For Cu-(0.019ml M5697),Pb-(0.0042ml m6025),Ag-(0.022ml m83713)-10 ml Sample	Jaswal	OK
38	P5191-13A	MYD033ARE	PS	12/23/24 14:04	PS For As(0.024ml mp83764)-10 ml Sample	Jaswal	OK
39	P5248-01DL	MJNKD0	SAM	12/23/24 14:08	2X For As	Jaswal	Confirms
40	P5248-02DL	MJNKD0D	DUP	12/23/24 14:11	2X For As	Jaswal	Confirms
41	P5248-01LDL	MJNKD0L	SD	12/23/24 14:14	10X For As	Jaswal	Confirms
42	P5248-03DL	MJNKD0S	MS	12/23/24 14:17	2X For As	Jaswal	Confirms
43	P5248-12DL	MJNLH6	SAM	12/23/24 14:20	2X For As	Jaswal	Confirms
44	CCV044	CCV044	CCV	12/23/24 14:23		Jaswal	OK
45	CCB044	CCB044	CCB	12/23/24 14:26		Jaswal	OK
46	PB165532BL	PBS532	MB	12/23/24 14:35		Jaswal	OK
47	PB165532BS	LCS532	LCS	12/23/24 14:39		Jaswal	OK
48	P5154-01	ME28N9	SAM	12/23/24 14:43		Jaswal	OK
49	P5154-02	ME28P0	SAM	12/23/24 14:46		Jaswal	OK
50	P5154-03	ME28P1	SAM	12/23/24 14:49		Jaswal	OK
51	P5154-04	ME28P2	SAM	12/23/24 14:52		Jaswal	OK
52	P5154-05	ME28P3	SAM	12/23/24 14:55		Jaswal	OK
53	P5154-06	ME28P4	SAM	12/23/24 14:58		Jaswal	OK
54	P5154-07	ME28P5	SAM	12/23/24 15:02		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134068

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ICAL Standard	MP83619,MP83628,MP83627,MP83625,MP83623,MP83622,MP83621,MP83620,MP83636
ICV Standard	MP83629
CCV Standard	MP83632
ICSA Standard	MP83630,MP83631
CRI Standard	M5751,M5961
LCS Standard	MP83046
Chk Standard	MP83635,MP83634

55	P5154-08	ME28P6	SAM	12/23/24 15:05		Jaswal	OK
56	P5154-09	ME28P7	SAM	12/23/24 15:08		Jaswal	OK
57	P5154-10	ME28P8	SAM	12/23/24 15:11		Jaswal	OK
58	P5154-11	ME28P9	SAM	12/23/24 15:14		Jaswal	OK
59	P5154-12	ME28Q0	SAM	12/23/24 15:17		Jaswal	OK
60	P5154-13	ME28Q1	SAM	12/23/24 15:20		Jaswal	OK
61	P5154-14	ME28Q2	SAM	12/23/24 15:23		Jaswal	OK
62	P5154-15	ME28Q3	SAM	12/23/24 15:26	Mn High	Jaswal	Dilution
63	P5154-16	ME28Q4	SAM	12/23/24 15:29	Mn,Zn High , INT_STD 209Bi(1) Fail	Jaswal	Dilution
64	P5154-17	ME28Q4D	DUP	12/23/24 15:32	Mn,Zn High , INT_STD 209Bi(1) Fail	Jaswal	Dilution
65	P5154-16L	ME28Q4L	SD	12/23/24 15:36	Mn,Zn High , INT_STD 209Bi(1) Fail	Jaswal	Dilution
66	P5154-18	ME28Q4S	MS	12/23/24 15:39	Mn,Zn High , INT_STD 209Bi(1) Fail,MS Fail For Cu,Ni	Jaswal	Dilution
67	P5154-19	ME28Q5	SAM	12/23/24 15:42		Jaswal	OK
68	P5154-20	ME28R3	SAM	12/23/24 15:45		Jaswal	OK
69	P5154-21	ME28R4	SAM	12/23/24 15:48		Jaswal	OK
70	CCV045	CCV045	CCV	12/23/24 15:59		Jaswal	OK
71	CCB045	CCB045	CCB	12/23/24 16:03		Jaswal	OK
72	P5154-16DL2	ME28Q4	SAM	12/23/24 16:16	5X For Zn	Jaswal	Confirms

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134068

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ICAL Standard	MP83619,MP83628,MP83627,MP83625,MP83623,MP83622,MP83621,MP83620,MP83636		
ICV Standard	MP83629		
CCV Standard	MP83632		
ICSA Standard	MP83630,MP83631		
CRI Standard	M5751,M5961		
LCS Standard	MP83046		
Chk Standard	MP83635,MP83634		

73	P5154-17DL2	ME28Q4D	DUP	12/23/24 16:20	5X For Zn	Jaswal	Confirms
74	P5154-16LDL2	ME28Q4L	SD	12/23/24 16:23	25X For Zn	Jaswal	Confirms
75	P5154-18DL2	ME28Q4S	MS	12/23/24 16:27	5X For Zn	Jaswal	Confirms
76	P5154-15DL	ME28Q3	SAM	12/23/24 16:30	2X For Mn	Jaswal	Confirms
77	P5154-16DL	ME28Q4	SAM	12/23/24 16:33	2X For INT_STD 209Bi(1)2X For Mn,Zn, Still Zn High	Jaswal	Dilution
78	P5154-17DL	ME28Q4D	DUP	12/23/24 16:36	2X For INT_STD 209Bi(1)2X For Mn,Zn, Still Zn High	Jaswal	Dilution
79	P5154-16LDL	ME28Q4L	SD	12/23/24 16:40	10X For INT_STD 209Bi(1)2X For Mn,Zn, Still Zn High	Jaswal	Dilution
80	P5154-18DL	ME28Q4S	MS	12/23/24 16:43	2X For INT_STD 209Bi(1)2X For Mn,Zn, Still Zn High	Jaswal	Dilution
81	CCV046	CCV046	CCV	12/23/24 16:46		Jaswal	OK
82	CCB046	CCB046	CCB	12/23/24 16:48		Jaswal	OK
83	P5154-16A	ME28Q4A	PS	12/23/24 17:29	PS for Cu-0.0023ml m5751,Ni- 0.0052ml m5961-10ml sample	Jaswal	OK
84	CCV047	CCV047	CCV	12/23/24 17:32		Jaswal	OK
85	CCB047	CCB047	CCB	12/23/24 17:34		Jaswal	OK
86	PB165801BL	PBS801	MB	12/23/24 18:28		Jaswal	OK
87	PB165801BS	LCS801	LCS	12/23/24 18:36		Jaswal	OK
88	P5335-01	ME2904	SAM	12/23/24 18:46		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134068

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Supervise By	Mohan Bera	Supervise On	12/25/2024 3:49:22 AM
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ICAL Standard	MP83619,MP83628,MP83627,MP83625,MP83623,MP83622,MP83621,MP83620,MP83636		
ICV Standard	MP83629		
CCV Standard	MP83632		
ICSA Standard	MP83630,MP83631		
CRI Standard	M5751,M5961		
LCS Standard	MP83046		
Chk Standard	MP83635,MP83634		

89	P5335-02	ME2905	SAM	12/23/24 18:49		Jaswal	OK
90	P5335-03	ME2906	SAM	12/23/24 18:52	Mn High	Jaswal	Dilution
91	P5335-04	ME2907	SAM	12/23/24 18:55		Jaswal	OK
92	P5335-05	ME2908	SAM	12/23/24 18:58		Jaswal	OK
93	P5335-06	ME2909	SAM	12/23/24 19:01		Jaswal	OK
94	P5335-07	ME2910	SAM	12/23/24 19:05		Jaswal	OK
95	P5335-08	ME2911	SAM	12/23/24 19:08		Jaswal	OK
96	P5335-09	ME2912	SAM	12/23/24 19:11		Jaswal	OK
97	CCV048	CCV048	CCV	12/23/24 19:14		Jaswal	OK
98	CCB048	CCB048	CCB	12/23/24 19:17		Jaswal	OK
99	P5335-10	ME2913	SAM	12/23/24 19:20		Jaswal	OK
100	P5335-11	ME2914	SAM	12/23/24 19:23	Mn High	Jaswal	Dilution
101	P5335-12	ME2915	SAM	12/23/24 19:26	Mn High	Jaswal	Dilution
102	P5335-13	ME2916	SAM	12/23/24 19:29		Jaswal	OK
103	P5335-14	ME2917	SAM	12/23/24 19:32		Jaswal	OK
104	P5335-15	ME2918	SAM	12/23/24 19:35		Jaswal	OK
105	P5335-16	ME2919	SAM	12/23/24 19:39	Mn High	Jaswal	Dilution
106	P5335-17	ME2920	SAM	12/23/24 19:42	Mn High	Jaswal	Dilution
107	P5335-18	ME2921	SAM	12/23/24 19:45		Jaswal	OK
108	P5335-19	ME2923	SAM	12/23/24 19:48		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134068

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CCV Standard	MP83632		
ICSA Standard	MP83630,MP83631		
CRI Standard	M5751,M5961		
LCS Standard	MP83046		
Chk Standard	MP83635,MP83634		

109	P5335-20	ME2923D	DUP	12/23/24 19:51		Jaswal	OK
110	P5335-19L	ME2923L	SD	12/23/24 19:54		Jaswal	OK
111	P5335-21	ME2923S	MS	12/23/24 19:58		Jaswal	OK
112	P5335-03DL	ME2906	SAM	12/23/24 20:01	2X For Mn	Jaswal	Confirms
113	PB165758BL	PBS758	MB	12/23/24 20:04		Jaswal	OK
114	PB165758BS	LCS758	LCS	12/23/24 20:08		Jaswal	OK
115	PB165756BL	PBS756	MB	12/23/24 20:12		Jaswal	OK
116	PB165756BS	LCS756	LCS	12/23/24 20:15		Jaswal	OK
117	P5156-01	ME28Q6	SAM	12/23/24 20:18		Jaswal	OK
118	P5156-02	ME28Q7	SAM	12/23/24 20:21		Jaswal	OK
119	P5156-03	ME28Q8	SAM	12/23/24 20:24		Jaswal	OK
120	P5156-04	ME28Q9	SAM	12/23/24 20:28		Jaswal	OK
121	P5156-05	ME28R0	SAM	12/23/24 20:31		Jaswal	OK
122	P5156-06	ME28R1	SAM	12/23/24 20:34		Jaswal	OK
123	P5156-07	ME28R2	SAM	12/23/24 20:37		Jaswal	OK
124	P5156-08	ME28T4	SAM	12/23/24 20:40		Jaswal	OK
125	P5156-09	ME28T5	SAM	12/23/24 20:43		Jaswal	OK
126	P5156-10	ME28T6	SAM	12/23/24 20:46		Jaswal	OK
127	P5156-11	ME28T7	SAM	12/23/24 20:50		Jaswal	OK
128	CCV049	CCV049	CCV	12/23/24 20:53		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134068

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CCV Standard	MP83632		
ICSA Standard	MP83630,MP83631		
CRI Standard	M5751,M5961		
LCS Standard	MP83046		
Chk Standard	MP83635,MP83634		

129	CCB049	CCB049	CCB	12/23/24 20:56		Jaswal	OK
130	P5156-12	ME28T8	SAM	12/23/24 20:59		Jaswal	OK
131	P5156-13	ME28T9	SAM	12/23/24 21:02	Mn High	Jaswal	Dilution
132	P5156-14	ME28W0	SAM	12/23/24 21:05	Mn High	Jaswal	Dilution
133	P5156-15	ME28W1	SAM	12/23/24 21:08		Jaswal	OK
134	P5156-16	ME28W2	SAM	12/23/24 21:11	Mn High	Jaswal	Dilution
135	P5156-17	ME28W2D	DUP	12/23/24 21:14	Mn High	Jaswal	Dilution
136	P5156-16L	ME28W2L	SD	12/23/24 21:17	Mn High	Jaswal	Dilution
137	P5156-18	ME28W2S	MS	12/23/24 21:20	Mn High	Jaswal	Dilution
138	P5156-19	ME28W3	SAM	12/23/24 21:23		Jaswal	OK
139	P5156-20	ME28W4	SAM	12/23/24 21:27		Jaswal	OK
140	P5156-21	ME28W5	SAM	12/23/24 21:30		Jaswal	OK
141	P5156-22	ME28W6	SAM	12/23/24 21:33		Jaswal	OK
142	P5335-11DL	ME2914	SAM	12/23/24 21:36	2X For Mn	Jaswal	Confirms
143	P5335-12DL	ME2915	SAM	12/23/24 21:39	2X For Mn	Jaswal	Confirms
144	P5335-16DL	ME2919	SAM	12/23/24 21:42	2X For Mn	Jaswal	Confirms
145	P5335-17DL	ME2920	SAM	12/23/24 21:45	2X For Mn	Jaswal	Confirms
146	P5254-01	MJNKK5	SAM	12/23/24 21:48		Jaswal	OK
147	P5254-02	MJNKK5D	DUP	12/23/24 21:51		Jaswal	OK
148	P5254-01L	MJNKK5L	SD	12/23/24 21:54		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134068

Review By	Sarabjit Jaswal	Review On	12/25/2024 3:48:44 AM
Supervise By	Mohan Bera	Supervise On	12/25/2024 3:49:22 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83619,MP83628,MP83627,MP83625,MP83623,MP83622,MP83621,MP83620,MP83636		
ICV Standard	MP83629		
CCV Standard	MP83632		
ICSA Standard	MP83630,MP83631		
CRI Standard	M5751,M5961		
LCS Standard	MP83046		
Chk Standard	MP83635,MP83634		

149	P5254-03	MJNKK5S	MS	12/23/24 21:57		Jaswal	OK
150	P5254-04	MJNKL7	SAM	12/23/24 22:00		Jaswal	OK
151	P5254-05	MJNKP2	SAM	12/23/24 22:03		Jaswal	OK
152	P5254-06	MJNKP3	SAM	12/23/24 22:06		Jaswal	OK
153	P5254-07	MJNKP4	SAM	12/23/24 22:09		Jaswal	OK
154	P5254-08	MJNKP5	SAM	12/23/24 22:12		Jaswal	OK
155	P5254-09	MJNKX2	SAM	12/23/24 22:16		Jaswal	OK
156	P5254-10	MJNL82	SAM	12/23/24 22:19		Jaswal	OK
157	P5254-11	MJNL83	SAM	12/23/24 22:22		Jaswal	OK
158	P5254-13	MJNKK3	SAM	12/23/24 22:25	Zn High	Jaswal	Dilution
159	P5254-14	MJNKK4	SAM	12/23/24 22:28		Jaswal	OK
160	CCV050	CCV050	CCV	12/23/24 22:31		Jaswal	OK
161	CCB050	CCB050	CCB	12/23/24 22:34		Jaswal	OK
162	P5254-15	MJNKN6	SAM	12/23/24 22:37		Jaswal	OK
163	P5254-16	MJNKN7	SAM	12/23/24 22:40		Jaswal	OK
164	P5254-17	MJNKN8	SAM	12/23/24 22:43		Jaswal	OK
165	P5254-18	MJNKKQ9	SAM	12/23/24 22:46		Jaswal	OK
166	P5254-19	MJNKT0	SAM	12/23/24 22:49		Jaswal	OK
167	P5254-20	MJNKW1	SAM	12/23/24 22:52		Jaswal	OK
168	P5254-21	MJNKW2	SAM	12/23/24 22:56		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB134068

Review By	Sarabjit Jaswal	Review On	12/25/2024 3:48:44 AM
Supervise By	Mohan Bera	Supervise On	12/25/2024 3:49:22 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83619,MP83628,MP83627,MP83625,MP83623,MP83622,MP83621,MP83620,MP83636		
ICV Standard	MP83629		
CCV Standard	MP83632		
ICSA Standard	MP83630,MP83631		
CRI Standard	M5751,M5961		
LCS Standard	MP83046		
Chk Standard	MP83635,MP83634		

169	P5254-22	MJNKY3	SAM	12/23/24 22:59		Jaswal	OK
170	P5156-13DL	ME28T9	SAM	12/23/24 23:03	2X For Mn	Jaswal	Confirms
171	P5156-14DL	ME28W0	SAM	12/23/24 23:07	2X For Mn	Jaswal	Confirms
172	P5156-16DL	ME28W2	SAM	12/23/24 23:11	2X For Mn	Jaswal	Confirms
173	P5156-17DL	ME28W2D	DUP	12/23/24 23:14	2X For Mn	Jaswal	Confirms
174	P5156-16LDL	ME28W2L	SD	12/23/24 23:17	10X For Mn	Jaswal	Confirms
175	P5156-18DL	ME28W2S	MS	12/23/24 23:20	2X For Mn	Jaswal	Confirms
176	P5254-13DL	MJNKK3	SAM	12/23/24 23:23	2X For Zn	Jaswal	Confirms
177	CCV051	CCV051	CCV	12/23/24 23:26		Jaswal	OK
178	CCB051	CCB051	CCB	12/23/24 23:29		Jaswal	OK