EPA SAMPLE NO.

MYD0B5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-01

% Solids: 92.4 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	32000	D	10/23/2024	1602
7440-36-0	Antimony	0.92	JD	10/23/2024	1602
7440-38-2	Arsenic	37	D	10/23/2024	1602
7440-39-3	Barium	150	D	10/23/2024	1602
7440-41-7	Beryllium	2.2	D	10/23/2024	1602
7440-43-9	Cadmium	1.4	D	10/23/2024	1602
7440-70-2	Calcium	6700	D	10/23/2024	1602
7440-47-3	Chromium	53	D	10/23/2024	1602
7440-48-4	Cobalt	21	D	10/23/2024	1602
7440-50-8	Copper	90	D	10/23/2024	1602
7439-89-6	Iron	48000	D	10/23/2024	1602
7439-92-1	Lead	46	D	10/23/2024	1602
7439-95-4	Magnesium	10000	D	10/23/2024	1602
7439-96-5	Manganese	1500	D	10/23/2024	1602
7440-02-0	Nickel	41	D	10/23/2024	1602
7440-09-7	Potassium	2700	D	10/23/2024	1602
7782-49-2	Selenium	6.5	UD	10/23/2024	1602
7440-22-4	Silver	1.9	UD	10/23/2024	1602
7440-23-5	Sodium	190	JD	10/23/2024	1602
7440-28-0	Thallium	4.6	UD	10/23/2024	1602
7440-62-2	Vanadium	84	D	10/23/2024	1602
7440-66-6	Zinc	90	D	10/23/2024	1602

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

Comments:

EPA SAMPLE NO.

MYD0B6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-02

% Solids: 87.8 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	29000	D	10/18/2024	1650
7440-36-0	Antimony	1.5	JD	10/18/2024	1650
7440-38-2	Arsenic	34	D	10/18/2024	1650
7440-39-3	Barium	210	D	10/18/2024	1650
7440-41-7	Beryllium	1.9	D	10/18/2024	1650
7440-43-9	Cadmium	0.13	JD	10/18/2024	1650
7440-70-2	Calcium	6600	D	10/18/2024	1650
7440-47-3	Chromium	48	D	10/18/2024	1650
7440-48-4	Cobalt	19	D	10/18/2024	1650
7440-50-8	Copper	62	D	10/18/2024	1650
7439-89-6	Iron	43000	D	10/18/2024	1650
7439-92-1	Lead	34	D	10/18/2024	1650
7439-95-4	Magnesium	9400	D	10/18/2024	1650
7439-96-5	Manganese	1800	D	10/18/2024	1650
7440-02-0	Nickel	36	D	10/18/2024	1650
7440-09-7	Potassium	1800	D	10/18/2024	1650
7782-49-2	Selenium	6.6	UD	10/18/2024	1650
7440-22-4	Silver	1.9	UD	10/18/2024	1650
7440-23-5	Sodium	210	JD	10/18/2024	1650
7440-28-0	Thallium	4.8	UD	10/18/2024	1650
7440-62-2	Vanadium	80	D	10/18/2024	1650
7440-66-6	Zinc	69	D	10/18/2024	1650

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

Comments:

EPA SAMPLE NO.

MYD0B7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-03

% Solids: 85.5 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	33000	D	10/18/2024	1655
7440-36-0	Antimony	1.0	JD	10/18/2024	1655
7440-38-2	Arsenic	35	D	10/18/2024	1655
7440-39-3	Barium	160	D	10/18/2024	1655
7440-41-7	Beryllium	2.1	D	10/18/2024	1655
7440-43-9	Cadmium	0.99	UD	10/18/2024	1655
7440-70-2	Calcium	7400	D	10/18/2024	1655
7440-47-3	Chromium	64	D	10/18/2024	1655
7440-48-4	Cobalt	22	D	10/18/2024	1655
7440-50-8	Copper	64	D	10/18/2024	1655
7439-89-6	Iron	47000	D	10/18/2024	1655
7439-92-1	Lead	38	D	10/18/2024	1655
7439-95-4	Magnesium	11000	D	10/18/2024	1655
7439-96-5	Manganese	1600	D	10/18/2024	1655
7440-02-0	Nickel	43	D	10/18/2024	1655
7440-09-7	Potassium	1900	D	10/18/2024	1655
7782-49-2	Selenium	6.9	UD	10/18/2024	1655
7440-22-4	Silver	2.0	UD	10/18/2024	1655
7440-23-5	Sodium	310	JD	10/18/2024	1655
7440-28-0	Thallium	5.0	UD	10/18/2024	1655
7440-62-2	Vanadium	86	D	10/18/2024	1655
7440-66-6	Zinc	72	D	10/18/2024	1655

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

Comments:

EPA SAMPLE NO.

MYD0B8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-04

% Solids: 86.8 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	27000	D	10/18/2024	1659
7440-36-0	Antimony	1.0	JD	10/18/2024	1659
7440-38-2	Arsenic	31	D	10/18/2024	1659
7440-39-3	Barium	220	D	10/18/2024	1659
7440-41-7	Beryllium	1.7	D	10/18/2024	1659
7440-43-9	Cadmium	1.1	UD	10/18/2024	1659
7440-70-2	Calcium	6100	D	10/18/2024	1659
7440-47-3	Chromium	51	D	10/18/2024	1659
7440-48-4	Cobalt	18	D	10/18/2024	1659
7440-50-8	Copper	47	D	10/18/2024	1659
7439-89-6	Iron	42000	D	10/18/2024	1659
7439-92-1	Lead	33	D	10/18/2024	1659
7439-95-4	Magnesium	8700	D	10/18/2024	1659
7439-96-5	Manganese	2100	D	10/18/2024	1659
7440-02-0	Nickel	36	D	10/18/2024	1659
7440-09-7	Potassium	1500	D	10/18/2024	1659
7782-49-2	Selenium	7.4	UD	10/18/2024	1659
7440-22-4	Silver	2.1	UD	10/18/2024	1659
7440-23-5	Sodium	300	JD	10/18/2024	1659
7440-28-0	Thallium	5.3	UD	10/18/2024	1659
7440-62-2	Vanadium	83	D	10/18/2024	1659
7440-66-6	Zinc	66	D	10/18/2024	1659

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

Comments:

EPA SAMPLE NO.

MYD0B9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-07

% Solids: 96.8 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	23000	D	10/18/2024	1717
7440-36-0	Antimony	1.5	JD	10/18/2024	1717
7440-38-2	Arsenic	64	D	10/18/2024	1717
7440-39-3	Barium	210	D	10/18/2024	1717
7440-41-7	Beryllium	0.97	D	10/18/2024	1717
7440-43-9	Cadmium	0.59	JD	10/18/2024	1717
7440-70-2	Calcium	3700	D	10/18/2024	1717
7440-47-3	Chromium	52	D	10/18/2024	1717
7440-48-4	Cobalt	30	D	10/18/2024	1717
7440-50-8	Copper	110	D	10/18/2024	1717
7439-89-6	Iron	55000	D	10/18/2024	1717
7439-92-1	Lead	37	D	10/18/2024	1717
7439-95-4	Magnesium	12000	D	10/18/2024	1717
7439-96-5	Manganese	1300	D	10/18/2024	1717
7440-02-0	Nickel	51	D	10/18/2024	1717
7440-09-7	Potassium	3500	D	10/18/2024	1717
7782-49-2	Selenium	6.1	UD	10/18/2024	1717
7440-22-4	Silver	1.8	UD	10/18/2024	1717
7440-23-5	Sodium	270	JD	10/18/2024	1717
7440-28-0	Thallium	4.4	UD	10/18/2024	1717
7440-62-2	Vanadium	130	D	10/18/2024	1717
7440-66-6	Zinc	100	D	10/18/2024	1717

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

Comments:

EPA SAMPLE NO.

MYD0C0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-08

% Solids: 91.2 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	33000	D	10/18/2024	1721
7440-36-0	Antimony	1.7	JD	10/18/2024	1721
7440-38-2	Arsenic	63	D	10/18/2024	1721
7440-39-3	Barium	270	D	10/18/2024	1721
7440-41-7	Beryllium	1.2	D	10/18/2024	1721
7440-43-9	Cadmium	0.14	JD	10/18/2024	1721
7440-70-2	Calcium	5700	D	10/18/2024	1721
7440-47-3	Chromium	71	D	10/18/2024	1721
7440-48-4	Cobalt	34	D	10/18/2024	1721
7440-50-8	Copper	80	D	10/18/2024	1721
7439-89-6	Iron	63000	D	10/18/2024	1721
7439-92-1	Lead	19	D	10/18/2024	1721
7439-95-4	Magnesium	14000	D	10/18/2024	1721
7439-96-5	Manganese	1300	D	10/18/2024	1721
7440-02-0	Nickel	64	D	10/18/2024	1721
7440-09-7	Potassium	1800	D	10/18/2024	1721
7782-49-2	Selenium	5.9	UD	10/18/2024	1721
7440-22-4	Silver	1.7	UD	10/18/2024	1721
7440-23-5	Sodium	270	JD	10/18/2024	1721
7440-28-0	Thallium	4.2	UD	10/18/2024	1721
7440-62-2	Vanadium	150	D	10/18/2024	1721
7440-66-6	Zinc	78	D	10/18/2024	1721

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

Comments:

EPA SAMPLE NO.

MYD0C1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-09

% Solids: 91.9 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	29000	D	10/18/2024	1726
7440-36-0	Antimony	1.4	JD	10/18/2024	1726
7440-38-2	Arsenic	66	D	10/18/2024	1726
7440-39-3	Barium	220	D	10/18/2024	1726
7440-41-7	Beryllium	1.0	D	10/18/2024	1726
7440-43-9	Cadmium	1.0	UD	10/18/2024	1726
7440-70-2	Calcium	5500	D	10/18/2024	1726
7440-47-3	Chromium	59	D	10/18/2024	1726
7440-48-4	Cobalt	32	D	10/18/2024	1726
7440-50-8	Copper	72	D	10/18/2024	1726
7439-89-6	Iron	57000	D	10/18/2024	1726
7439-92-1	Lead	15	D	10/18/2024	1726
7439-95-4	Magnesium	13000	D	10/18/2024	1726
7439-96-5	Manganese	1200	D	10/18/2024	1726
7440-02-0	Nickel	55	D	10/18/2024	1726
7440-09-7	Potassium	1300	D	10/18/2024	1726
7782-49-2	Selenium	7.2	UD	10/18/2024	1726
7440-22-4	Silver	2.1	UD	10/18/2024	1726
7440-23-5	Sodium	240	JD	10/18/2024	1726
7440-28-0	Thallium	5.1	UD	10/18/2024	1726
7440-62-2	Vanadium	130	D	10/18/2024	1726
7440-66-6	Zinc	72	D	10/18/2024	1726

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

Comments:

EPA SAMPLE NO.

MYD0C2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-10

% Solids: 92.4 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	25000	D	10/18/2024	1730
7440-36-0	Antimony	1.2	JD	10/18/2024	1730
7440-38-2	Arsenic	99	D	10/18/2024	1730
7440-39-3	Barium	210	D	10/18/2024	1730
7440-41-7	Beryllium	0.94	D	10/18/2024	1730
7440-43-9	Cadmium	0.90	UD	10/18/2024	1730
7440-70-2	Calcium	4600	D	10/18/2024	1730
7440-47-3	Chromium	52	D	10/18/2024	1730
7440-48-4	Cobalt	28	D	10/18/2024	1730
7440-50-8	Copper	55	D	10/18/2024	1730
7439-89-6	Iron	55000	D	10/18/2024	1730
7439-92-1	Lead	13	D	10/18/2024	1730
7439-95-4	Magnesium	13000	D	10/18/2024	1730
7439-96-5	Manganese	1200	D	10/18/2024	1730
7440-02-0	Nickel	49	D	10/18/2024	1730
7440-09-7	Potassium	1100	D	10/18/2024	1730
7782-49-2	Selenium	6.3	UD	10/18/2024	1730
7440-22-4	Silver	1.8	UD	10/18/2024	1730
7440-23-5	Sodium	210	JD	10/18/2024	1730
7440-28-0	Thallium	4.5	UD	10/18/2024	1730
7440-62-2	Vanadium	120	D	10/18/2024	1730
7440-66-6	Zinc	70	D	10/18/2024	1730

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

Comments:

EPA SAMPLE NO.

MYD0C3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-11

% Solids: 98.4 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	13000	D	10/18/2024	1735
7440-36-0	Antimony	2.5	JD	10/18/2024	1735
7440-38-2	Arsenic	86	D	10/18/2024	1735
7440-39-3	Barium	130	D	10/18/2024	1735
7440-41-7	Beryllium	0.77	D	10/18/2024	1735
7440-43-9	Cadmium	1.1	D	10/18/2024	1735
7440-70-2	Calcium	1300	D	10/18/2024	1735
7440-47-3	Chromium	28	D	10/18/2024	1735
7440-48-4	Cobalt	18	D	10/18/2024	1735
7440-50-8	Copper	400	D	10/18/2024	1735
7439-89-6	Iron	38000	D	10/18/2024	1735
7439-92-1	Lead	150	D	10/18/2024	1735
7439-95-4	Magnesium	4500	D	10/18/2024	1735
7439-96-5	Manganese	1100	D	10/18/2024	1735
7440-02-0	Nickel	23	D	10/18/2024	1735
7440-09-7	Potassium	2600	D	10/18/2024	1735
7782-49-2	Selenium	5.0	UD	10/18/2024	1735
7440-22-4	Silver	1.4	UD	10/18/2024	1735
7440-23-5	Sodium	150	JD	10/18/2024	1735
7440-28-0	Thallium	3.6	UD	10/18/2024	1735
7440-62-2	Vanadium	67	D	10/18/2024	1735
7440-66-6	Zinc	110	D	10/18/2024	1735

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

Comments:

EPA SAMPLE NO.

MYD0C4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-12

% Solids: 96.1 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	15000	D	10/18/2024	1739
7440-36-0	Antimony	1.3	JD	10/18/2024	1739
7440-38-2	Arsenic	37	D	10/18/2024	1739
7440-39-3	Barium	160	D	10/18/2024	1739
7440-41-7	Beryllium	0.82	D	10/18/2024	1739
7440-43-9	Cadmium	2.1	D	10/18/2024	1739
7440-70-2	Calcium	1700	D	10/18/2024	1739
7440-47-3	Chromium	27	D	10/18/2024	1739
7440-48-4	Cobalt	18	D	10/18/2024	1739
7440-50-8	Copper	270	D	10/18/2024	1739
7439-89-6	Iron	34000	D	10/18/2024	1739
7439-92-1	Lead	21	D	10/18/2024	1739
7439-95-4	Magnesium	4300	D	10/18/2024	1739
7439-96-5	Manganese	1200	D	10/18/2024	1739
7440-02-0	Nickel	24	D	10/18/2024	1739
7440-09-7	Potassium	2500	D	10/18/2024	1739
7782-49-2	Selenium	5.0	UD	10/18/2024	1739
7440-22-4	Silver	1.4	UD	10/18/2024	1739
7440-23-5	Sodium	160	JD	10/18/2024	1739
7440-28-0	Thallium	3.6	UD	10/18/2024	1739
7440-62-2	Vanadium	61	D	10/18/2024	1739
7440-66-6	Zinc	130	D	10/18/2024	1739

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

Comments:

EPA SAMPLE NO.

MYD0C5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-13

% Solids: 94.5 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	21000	D	10/18/2024	1743
7440-36-0	Antimony	1.1	JD	10/18/2024	1743
7440-38-2	Arsenic	22	D	10/18/2024	1743
7440-39-3	Barium	180	D	10/18/2024	1743
7440-41-7	Beryllium	0.98	JD	10/18/2024	1743
7440-43-9	Cadmium	0.80	JD	10/18/2024	1743
7440-70-2	Calcium	2800	D	10/18/2024	1743
7440-47-3	Chromium	74	D	10/18/2024	1743
7440-48-4	Cobalt	21	D	10/18/2024	1743
7440-50-8	Copper	59	D	10/18/2024	1743
7439-89-6	Iron	42000	D	10/18/2024	1743
7439-92-1	Lead	17	D	10/18/2024	1743
7439-95-4	Magnesium	6600	D	10/18/2024	1743
7439-96-5	Manganese	950	D	10/18/2024	1743
7440-02-0	Nickel	33	D	10/18/2024	1743
7440-09-7	Potassium	2500	D	10/18/2024	1743
7782-49-2	Selenium	7.1	UD	10/18/2024	1743
7440-22-4	Silver	2.0	UD	10/18/2024	1743
7440-23-5	Sodium	1000	UD	10/18/2024	1743
7440-28-0	Thallium	5.0	UD	10/18/2024	1743
7440-62-2	Vanadium	77	D	10/18/2024	1743
7440-66-6	Zinc	150	D	10/18/2024	1743

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

Comments:

EPA SAMPLE NO.

MYD0C6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-14

% Solids: 92.4 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	20000	D	10/18/2024	1748
7440-36-0	Antimony	1.7	JD	10/18/2024	1748
7440-38-2	Arsenic	30	D	10/18/2024	1748
7440-39-3	Barium	160	D	10/18/2024	1748
7440-41-7	Beryllium	0.76	JD	10/18/2024	1748
7440-43-9	Cadmium	0.99	UD	10/18/2024	1748
7440-70-2	Calcium	2400	D	10/18/2024	1748
7440-47-3	Chromium	500	D	10/18/2024	1748
7440-48-4	Cobalt	18	D	10/18/2024	1748
7440-50-8	Copper	46	D	10/18/2024	1748
7439-89-6	Iron	44000	D	10/18/2024	1748
7439-92-1	Lead	13	D	10/18/2024	1748
7439-95-4	Magnesium	8900	D	10/18/2024	1748
7439-96-5	Manganese	1400	D	10/18/2024	1748
7440-02-0	Nickel	44	D	10/18/2024	1748
7440-09-7	Potassium	1400	D	10/18/2024	1748
7782-49-2	Selenium	7.0	UD	10/18/2024	1748
7440-22-4	Silver	2.0	UD	10/18/2024	1748
7440-23-5	Sodium	260	JD	10/18/2024	1748
7440-28-0	Thallium	5.0	UD	10/18/2024	1748
7440-62-2	Vanadium	70	D	10/18/2024	1748
7440-66-6	Zinc	110	D	10/18/2024	1748

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

Comments:

EPA SAMPLE NO.

MYD0C7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-15

% Solids: 96.3 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	24000	D	10/18/2024	1752
7440-36-0	Antimony	1.5	JD	10/18/2024	1752
7440-38-2	Arsenic	51	D	10/18/2024	1752
7440-39-3	Barium	200	D	10/18/2024	1752
7440-41-7	Beryllium	1.0	D	10/18/2024	1752
7440-43-9	Cadmium	0.36	JD	10/18/2024	1752
7440-70-2	Calcium	4800	D	10/18/2024	1752
7440-47-3	Chromium	66	D	10/18/2024	1752
7440-48-4	Cobalt	30	D	10/18/2024	1752
7440-50-8	Copper	85	D	10/18/2024	1752
7439-89-6	Iron	51000	D	10/18/2024	1752
7439-92-1	Lead	25	D	10/18/2024	1752
7439-95-4	Magnesium	11000	D	10/18/2024	1752
7439-96-5	Manganese	1300	D	10/18/2024	1752
7440-02-0	Nickel	65	D	10/18/2024	1752
7440-09-7	Potassium	4300	D	10/18/2024	1752
7782-49-2	Selenium	5.3	UD	10/18/2024	1752
7440-22-4	Silver	1.5	UD	10/18/2024	1752
7440-23-5	Sodium	220	JD	10/18/2024	1752
7440-28-0	Thallium	3.8	UD	10/18/2024	1752
7440-62-2	Vanadium	99	D	10/18/2024	1752
7440-66-6	Zinc	90	D	10/18/2024	1752

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

Comments:

EPA SAMPLE NO.

MYD0C8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-16

% Solids: 91.4 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	24000	D	10/18/2024	1757
7440-36-0	Antimony	1.2	JD	10/18/2024	1757
7440-38-2	Arsenic	40	D	10/18/2024	1757
7440-39-3	Barium	170	D	10/18/2024	1757
7440-41-7	Beryllium	1.0	D	10/18/2024	1757
7440-43-9	Cadmium	0.18	JD	10/18/2024	1757
7440-70-2	Calcium	5200	D	10/18/2024	1757
7440-47-3	Chromium	59	D	10/18/2024	1757
7440-48-4	Cobalt	26	D	10/18/2024	1757
7440-50-8	Copper	59	D	10/18/2024	1757
7439-89-6	Iron	45000	D	10/18/2024	1757
7439-92-1	Lead	17	D	10/18/2024	1757
7439-95-4	Magnesium	10000	D	10/18/2024	1757
7439-96-5	Manganese	1100	D	10/18/2024	1757
7440-02-0	Nickel	59	D	10/18/2024	1757
7440-09-7	Potassium	4000	D	10/18/2024	1757
7782-49-2	Selenium	5.1	UD	10/18/2024	1757
7440-22-4	Silver	1.5	UD	10/18/2024	1757
7440-23-5	Sodium	200	JD	10/18/2024	1757
7440-28-0	Thallium	3.7	UD	10/18/2024	1757
7440-62-2	Vanadium	86	D	10/18/2024	1757
7440-66-6	Zinc	73	D	10/18/2024	1757

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

Comments:

EPA SAMPLE NO.

MYD0C9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-17

% Solids: 90 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	29000	D	10/18/2024	1801
7440-36-0	Antimony	1.6	JD	10/18/2024	1801
7440-38-2	Arsenic	44	D	10/18/2024	1801
7440-39-3	Barium	180	D	10/18/2024	1801
7440-41-7	Beryllium	1.2	D	10/18/2024	1801
7440-43-9	Cadmium	0.82	UD	10/18/2024	1801
7440-70-2	Calcium	5800	D	10/18/2024	1801
7440-47-3	Chromium	68	D	10/18/2024	1801
7440-48-4	Cobalt	28	D	10/18/2024	1801
7440-50-8	Copper	53	D	10/18/2024	1801
7439-89-6	Iron	53000	D	10/18/2024	1801
7439-92-1	Lead	16	D	10/18/2024	1801
7439-95-4	Magnesium	12000	D	10/18/2024	1801
7439-96-5	Manganese	1100	D	10/18/2024	1801
7440-02-0	Nickel	65	D	10/18/2024	1801
7440-09-7	Potassium	4200	D	10/18/2024	1801
7782-49-2	Selenium	5.8	UD	10/18/2024	1801
7440-22-4	Silver	1.7	UD	10/18/2024	1801
7440-23-5	Sodium	250	JD	10/18/2024	1801
7440-28-0	Thallium	4.1	UD	10/18/2024	1801
7440-62-2	Vanadium	96	D	10/18/2024	1801
7440-66-6	Zinc	79	D	10/18/2024	1801

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

Comments:

EPA SAMPLE NO.

MYD0D0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-18

% Solids: 91.6 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	27000	D	10/18/2024	1805
7440-36-0	Antimony	1.4	JD	10/18/2024	1805
7440-38-2	Arsenic	52	D	10/18/2024	1805
7440-39-3	Barium	160	D	10/18/2024	1805
7440-41-7	Beryllium	1.1	D	10/18/2024	1805
7440-43-9	Cadmium	0.80	UD	10/18/2024	1805
7440-70-2	Calcium	5500	D	10/18/2024	1805
7440-47-3	Chromium	72	D	10/18/2024	1805
7440-48-4	Cobalt	26	D	10/18/2024	1805
7440-50-8	Copper	51	D	10/18/2024	1805
7439-89-6	Iron	51000	D	10/18/2024	1805
7439-92-1	Lead	14	D	10/18/2024	1805
7439-95-4	Magnesium	11000	D	10/18/2024	1805
7439-96-5	Manganese	980	D	10/18/2024	1805
7440-02-0	Nickel	65	D	10/18/2024	1805
7440-09-7	Potassium	3600	D	10/18/2024	1805
7782-49-2	Selenium	5.6	UD	10/18/2024	1805
7440-22-4	Silver	1.6	UD	10/18/2024	1805
7440-23-5	Sodium	270	JD	10/18/2024	1805
7440-28-0	Thallium	4.0	UD	10/18/2024	1805
7440-62-2	Vanadium	93	D	10/18/2024	1805
7440-66-6	Zinc	71	D	10/18/2024	1805

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

Comments:

EPA SAMPLE NO.

MYD0D1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-19

% Solids: 98.1 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	15000	D	10/18/2024	1819
7440-36-0	Antimony	2.3	JD	10/18/2024	1819
7440-38-2	Arsenic	59	D	10/18/2024	1819
7440-39-3	Barium	180	D	10/18/2024	1819
7440-41-7	Beryllium	0.99	D	10/18/2024	1819
7440-43-9	Cadmium	0.42	JD	10/18/2024	1819
7440-70-2	Calcium	2900	D	10/18/2024	1819
7440-47-3	Chromium	45	D	10/18/2024	1819
7440-48-4	Cobalt	22	D	10/18/2024	1819
7440-50-8	Copper	92	D	10/18/2024	1819
7439-89-6	Iron	48000	D	10/18/2024	1819
7439-92-1	Lead	32	D	10/18/2024	1819
7439-95-4	Magnesium	6700	D	10/18/2024	1819
7439-96-5	Manganese	1000	D	10/18/2024	1819
7440-02-0	Nickel	48	D	10/18/2024	1819
7440-09-7	Potassium	3000	D	10/18/2024	1819
7782-49-2	Selenium	5.8	UD	10/18/2024	1819
7440-22-4	Silver	1.7	UD	10/18/2024	1819
7440-23-5	Sodium	240	JD	10/18/2024	1819
7440-28-0	Thallium	4.1	UD	10/18/2024	1819
7440-62-2	Vanadium	93	D	10/18/2024	1819
7440-66-6	Zinc	81	D	10/18/2024	1819

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

Comments:

EPA SAMPLE NO.

MYD0D2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-20

% Solids: 96.4 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	17000	D	10/18/2024	1823
7440-36-0	Antimony	1.6	JD	10/18/2024	1823
7440-38-2	Arsenic	44	D	10/18/2024	1823
7440-39-3	Barium	190	D	10/18/2024	1823
7440-41-7	Beryllium	0.99	D	10/18/2024	1823
7440-43-9	Cadmium	0.13	JD	10/18/2024	1823
7440-70-2	Calcium	3000	D	10/18/2024	1823
7440-47-3	Chromium	47	D	10/18/2024	1823
7440-48-4	Cobalt	24	D	10/18/2024	1823
7440-50-8	Copper	63	D	10/18/2024	1823
7439-89-6	Iron	46000	D	10/18/2024	1823
7439-92-1	Lead	23	D	10/18/2024	1823
7439-95-4	Magnesium	7100	D	10/18/2024	1823
7439-96-5	Manganese	990	D	10/18/2024	1823
7440-02-0	Nickel	49	D	10/18/2024	1823
7440-09-7	Potassium	3000	D	10/18/2024	1823
7782-49-2	Selenium	6.1	UD	10/18/2024	1823
7440-22-4	Silver	1.7	UD	10/18/2024	1823
7440-23-5	Sodium	210	JD	10/18/2024	1823
7440-28-0	Thallium	4.3	UD	10/18/2024	1823
7440-62-2	Vanadium	83	D	10/18/2024	1823
7440-66-6	Zinc	75	D	10/18/2024	1823

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

Comments:

EPA SAMPLE NO.

MYD0D3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-21

% Solids: 94 Date Received: 10/04/2024

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	20000	D	10/18/2024	1827
7440-36-0	Antimony	1.2	JD	10/18/2024	1827
7440-38-2	Arsenic	42	D	10/18/2024	1827
7440-39-3	Barium	210	D	10/18/2024	1827
7440-41-7	Beryllium	1.1	D	10/18/2024	1827
7440-43-9	Cadmium	0.78	UD	10/18/2024	1827
7440-70-2	Calcium	3500	D	10/18/2024	1827
7440-47-3	Chromium	64	D	10/18/2024	1827
7440-48-4	Cobalt	26	D	10/18/2024	1827
7440-50-8	Copper	48	D	10/18/2024	1827
7439-89-6	Iron	46000	D	10/18/2024	1827
7439-92-1	Lead	18	D	10/18/2024	1827
7439-95-4	Magnesium	7500	D	10/18/2024	1827
7439-96-5	Manganese	1100	D	10/18/2024	1827
7440-02-0	Nickel	54	D	10/18/2024	1827
7440-09-7	Potassium	3300	D	10/18/2024	1827
7782-49-2	Selenium	5.5	UD	10/18/2024	1827
7440-22-4	Silver	1.6	UD	10/18/2024	1827
7440-23-5	Sodium	210	JD	10/18/2024	1827
7440-28-0	Thallium	3.9	UD	10/18/2024	1827
7440-62-2	Vanadium	87	D	10/18/2024	1827
7440-66-6	Zinc	64	D	10/18/2024	1827

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

Comments:

EPA SAMPLE NO.

MYD0D4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51772 MA No. : 3226.1 SDG No.: MYD0B5

Matrix: SOIL Lab Sample ID: P4291-22

% Solids: 94.2 Date Received: 10/04/2024

Analytical Method: ICP_AES

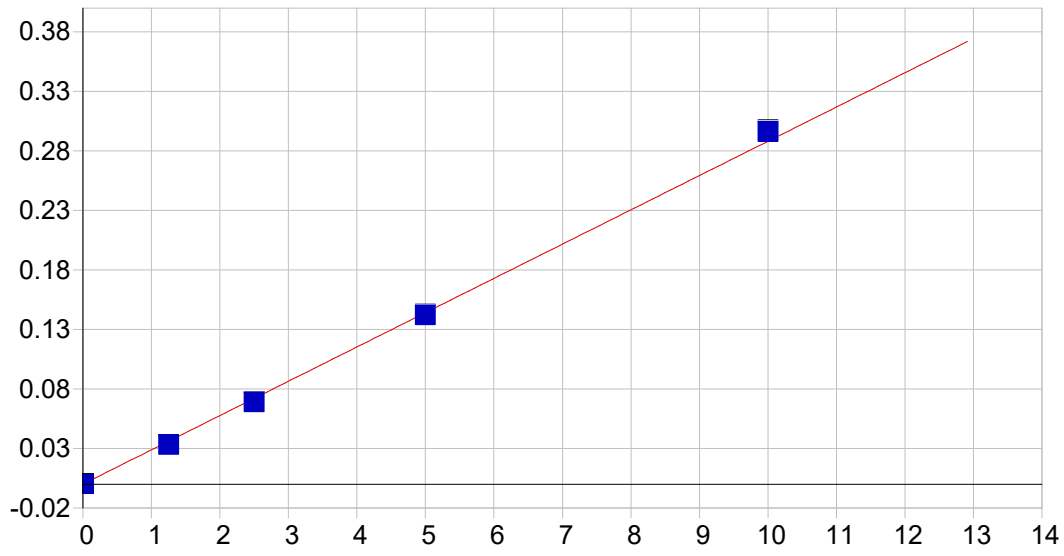
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20000	D	10/18/2024	1832
7440-36-0	Antimony	1.7	JD	10/18/2024	1832
7440-38-2	Arsenic	46	D	10/18/2024	1832
7440-39-3	Barium	170	D	10/18/2024	1832
7440-41-7	Beryllium	1.1	D	10/18/2024	1832
7440-43-9	Cadmium	0.86	UD	10/18/2024	1832
7440-70-2	Calcium	3100	D	10/18/2024	1832
7440-47-3	Chromium	52	D	10/18/2024	1832
7440-48-4	Cobalt	21	D	10/18/2024	1832
7440-50-8	Copper	39	D	10/18/2024	1832
7439-89-6	Iron	45000	D	10/18/2024	1832
7439-92-1	Lead	15	D	10/18/2024	1832
7439-95-4	Magnesium	6800	D	10/18/2024	1832
7439-96-5	Manganese	920	D	10/18/2024	1832
7440-02-0	Nickel	48	D	10/18/2024	1832
7440-09-7	Potassium	3000	D	10/18/2024	1832
7782-49-2	Selenium	6.0	UD	10/18/2024	1832
7440-22-4	Silver	1.7	UD	10/18/2024	1832
7440-23-5	Sodium	200	JD	10/18/2024	1832
7440-28-0	Thallium	4.3	UD	10/18/2024	1832
7440-62-2	Vanadium	85	D	10/18/2024	1832
7440-66-6	Zinc	64	D	10/18/2024	1832

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

Comments:

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



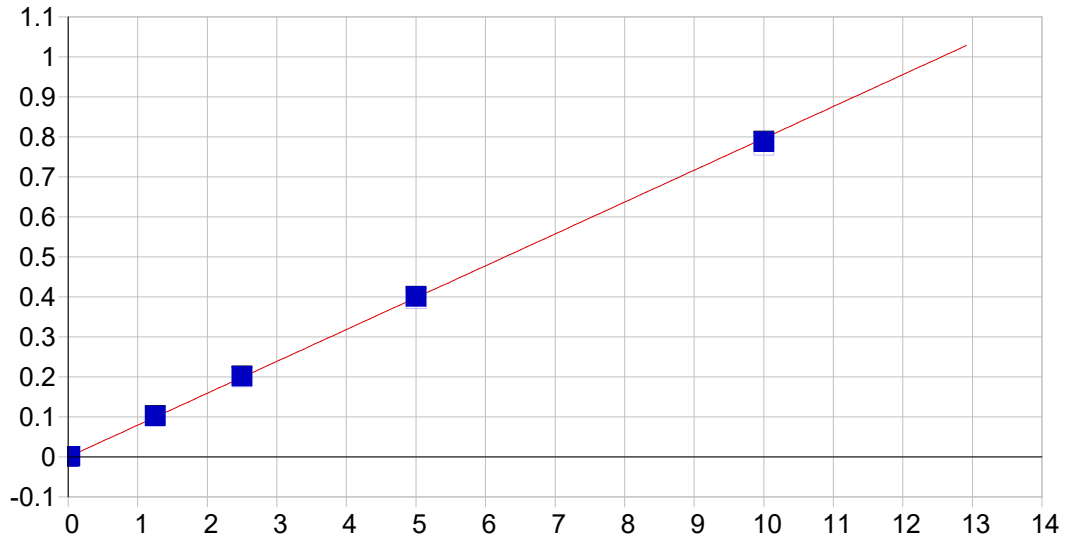
As 189.042 {479}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000045	Re-Slope:	1.000000
A1 (Gain):	0.028808	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999419	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.006691		
Predicted MQL:	0.022303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00005	.000	1
S1	.01000	.00782	-.002	-21.8	.00027	.000	1
S2	1.2500	1.1502	-.100	-7.99	.03331	.000	1
S3	2.5000	2.3900	-.110	-4.40	.06915	.000	1
S4	5.0000	4.9331	-.067	-1.34	.14268	.000	1
S5	10.000	10.279	.279	2.79	.29720	.000	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



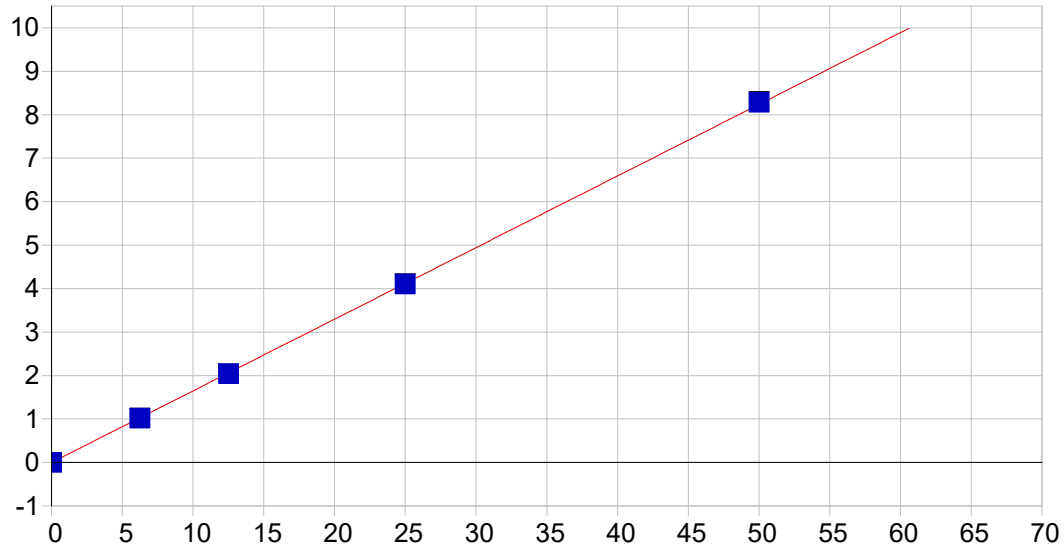
Tl 190.856 {477}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000167	Re-Slope:	1.000000
A1 (Gain):	0.079654	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.002871		
Predicted MQL:	0.009571		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00017	.000	1
S1	.02500	.02275	-.002	-9.00	.00160	.000	1
S2	1.2500	1.2871	.037	2.97	.10110	.001	1
S3	2.5000	2.5360	.036	1.44	.19933	.001	1
S4	5.0000	5.0314	.031	.629	.39559	.001	1
S5	10.000	9.8977	-.102	-1.02	.77820	.002	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



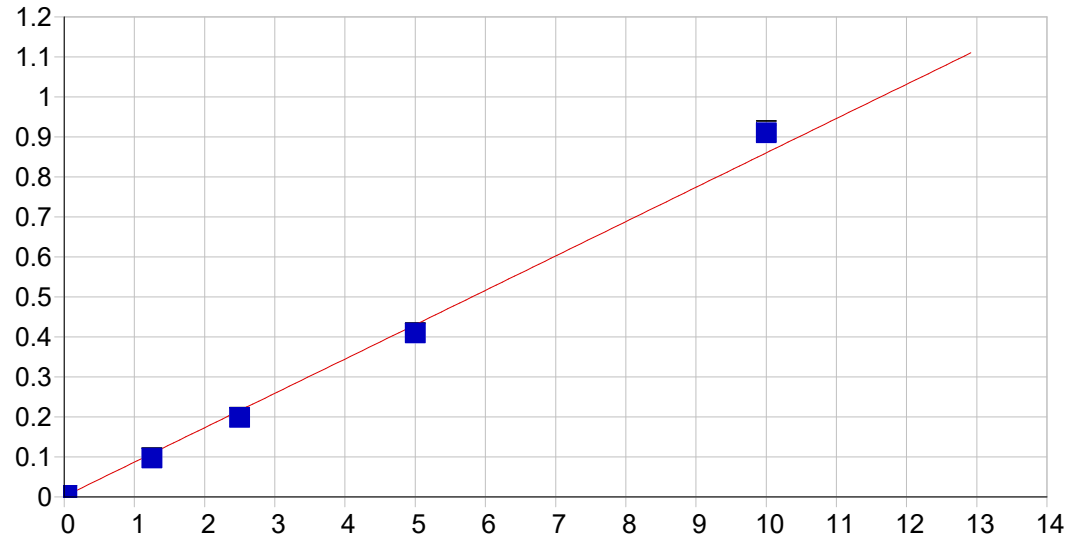
Pb 220.353 {453}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000790	Re-Slope:	1.000000
A1 (Gain):	0.164788	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.003169		
Predicted MQL:	0.010565		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00079	.000	1
S1	.01000	.01146	.001	14.6	.00110	.000	1
S2	6.2500	6.1596	-.090	-1.45	1.0140	.001	1
S3	12.500	12.398	-.102	-.817	2.0417	.005	1
S4	25.000	24.905	-.095	-.380	4.1022	.010	1
S5	50.000	50.286	.286	.572	8.2837	.015	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



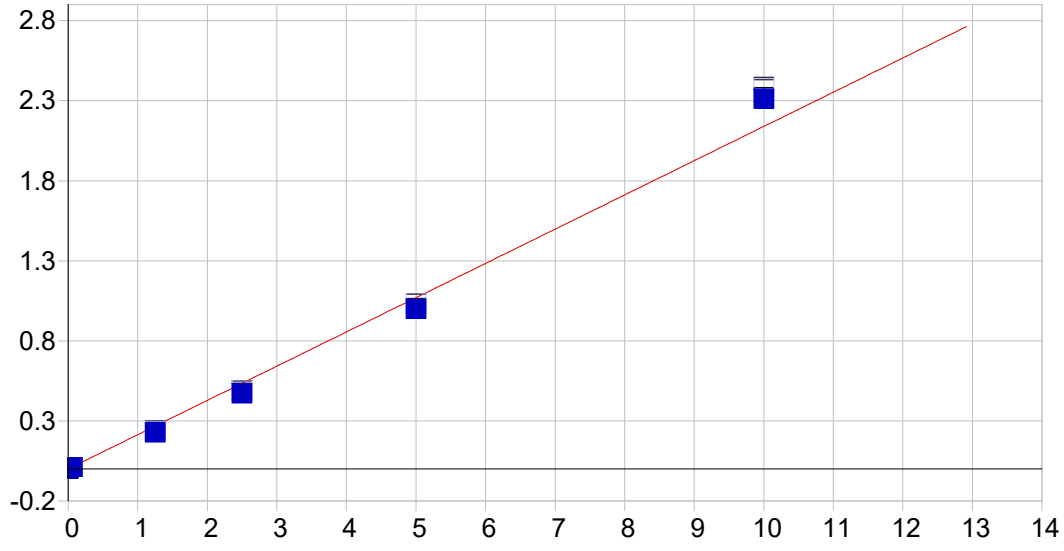
Se 196.090 {472}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001176	Re-Slope:	1.000000
A1 (Gain):	0.085874	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997884	Status:	OK.
Std Error of Est:	0.000175		
Predicted MDL:	0.004814		
Predicted MQL:	0.016047		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00118	.000	1
S1	.03500	.02700	-.008	-22.8	.00349	.000	1
S2	1.2500	1.1177	-.132	-10.6	.09695	.001	1
S3	2.5000	2.2945	-.205	-8.22	.19781	.001	1
S4	5.0000	4.7558	-.244	-4.88	.40876	.001	1
S5	10.000	10.590	.590	5.90	.90894	.005	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



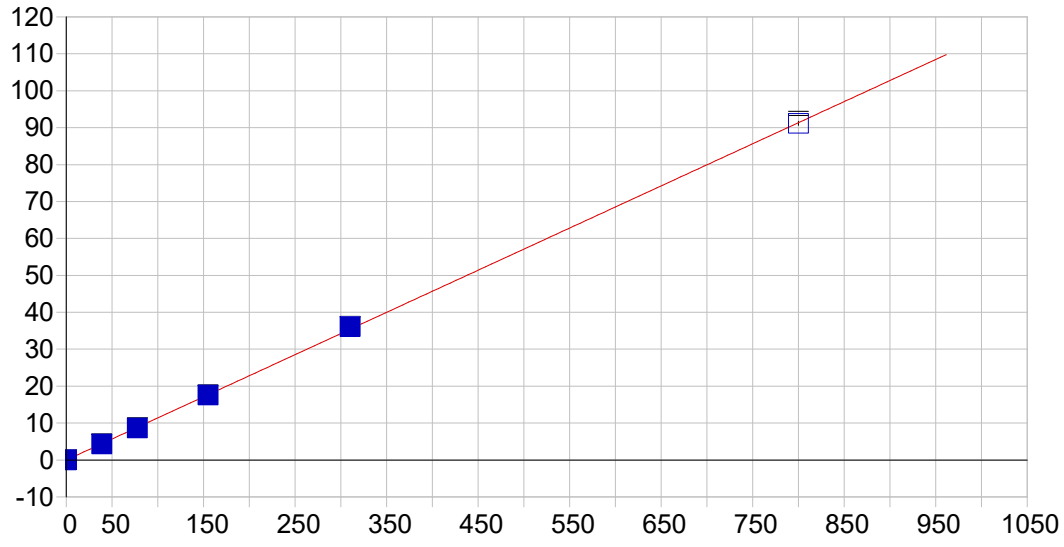
Sb 206.833 {463}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000020	Re-Slope:	1.000000
A1 (Gain):	0.213936	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996270	Status:	OK.
Std Error of Est:	0.000784		
Predicted MDL:	0.002388		
Predicted MQL:	0.007959		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	-.00001	.000	1
S1	.06000	.05244	-.008	-12.6	.01120	.000	1
S2	1.2500	1.0670	-.183	-14.6	.23614	.001	1
S3	2.5000	2.2083	-.292	-11.7	.48819	.002	1
S4	5.0000	4.6700	-.330	-6.60	1.0306	.004	1
S5	10.000	10.812	.812	8.12	2.3762	.008	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



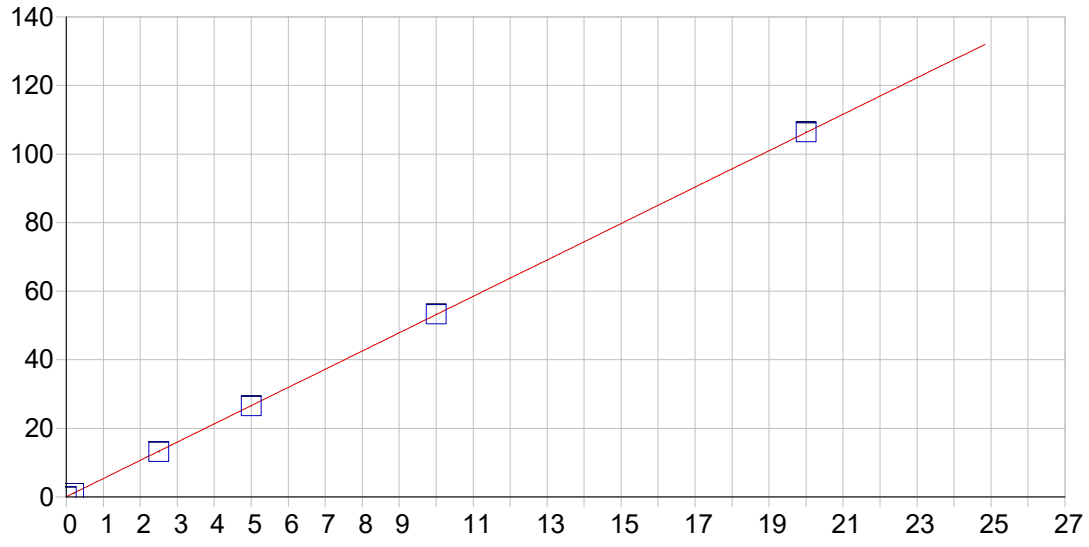
Al 396.152 { 85}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002711	Re-Slope:	1.000000
A1 (Gain):	0.114195	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999924	Status:	OK.
Std Error of Est:	0.000876		
Predicted MDL:	0.015260		
Predicted MQL:	0.050868		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00271	.002	1
S1	.20000	.19408	-.006	-2.96	.01949	.001	1
S2	38.750	37.497	-1.25	-3.23	4.2845	.019	1
S3	77.500	75.886	-1.61	-2.08	8.6737	.018	1
S4	155.00	153.56	-1.44	-.930	17.554	.049	1
S5	310.00	316.07	6.07	1.96	36.133	.061	1
S6	800.00	798.25	-1.75	-.219	91.153	.560	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



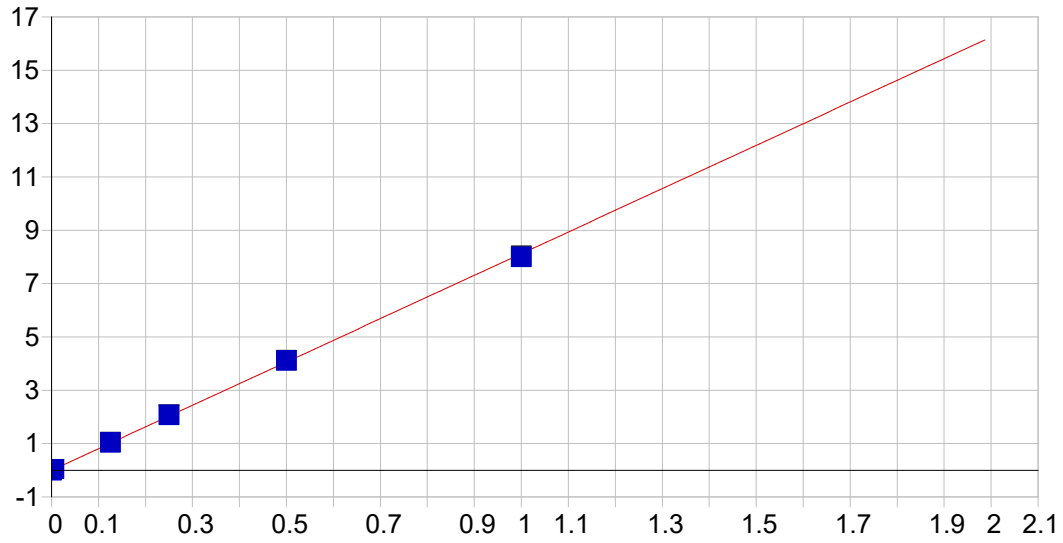
Ba 493.409 { 68}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.051061	Re-Slope:	1.000000
A1 (Gain):	5.312114	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.002779		
Predicted MDL:	0.000968		
Predicted MQL:	0.003228		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.05104	.005	1
S1	.20000	.20750	.008	3.75	1.1533	.002	1
S2	2.5000	2.4647	-.035	-1.41	13.144	.027	1
S3	5.0000	4.9833	-.017	-.334	26.523	.053	1
S4	10.000	10.024	.024	.237	53.298	.060	1
S5	20.000	20.021	.021	.104	106.40	.166	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



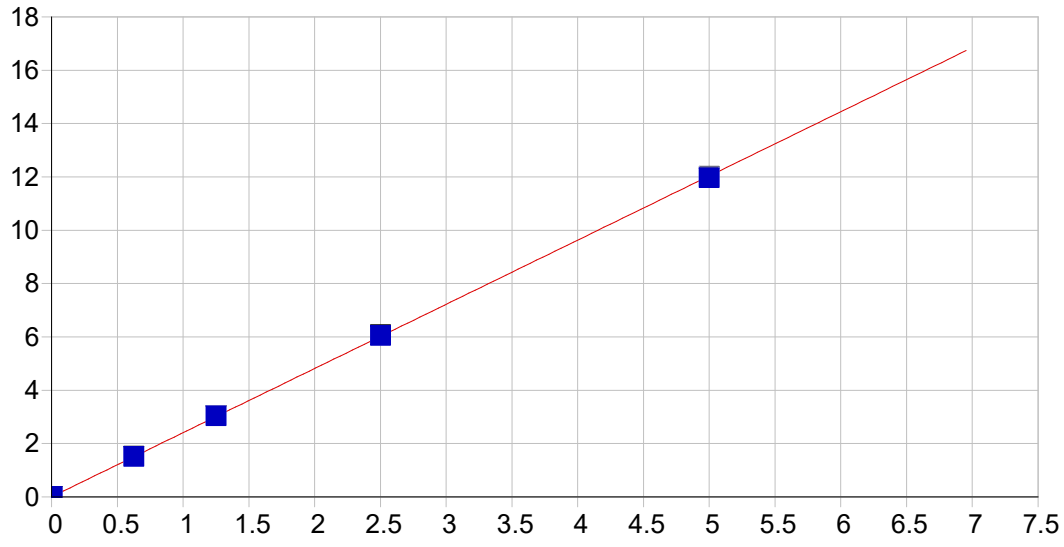
Be 234.861 {144}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001701	Re-Slope:	1.000000
A1 (Gain):	8.123908	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999871	Status:	OK.
Std Error of Est:	0.000488		
Predicted MDL:	0.000125		
Predicted MQL:	0.000415		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00170	.001	1
S1	.00500	.00518	.000	3.62	.04037	.001	1
S2	.12500	.12853	.004	2.82	1.0408	.005	1
S3	.25000	.25509	.005	2.04	2.0674	.012	1
S4	.50000	.50564	.006	1.13	4.0995	.018	1
S5	1.0000	.98556	-.014	-1.44	7.9918	.028	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



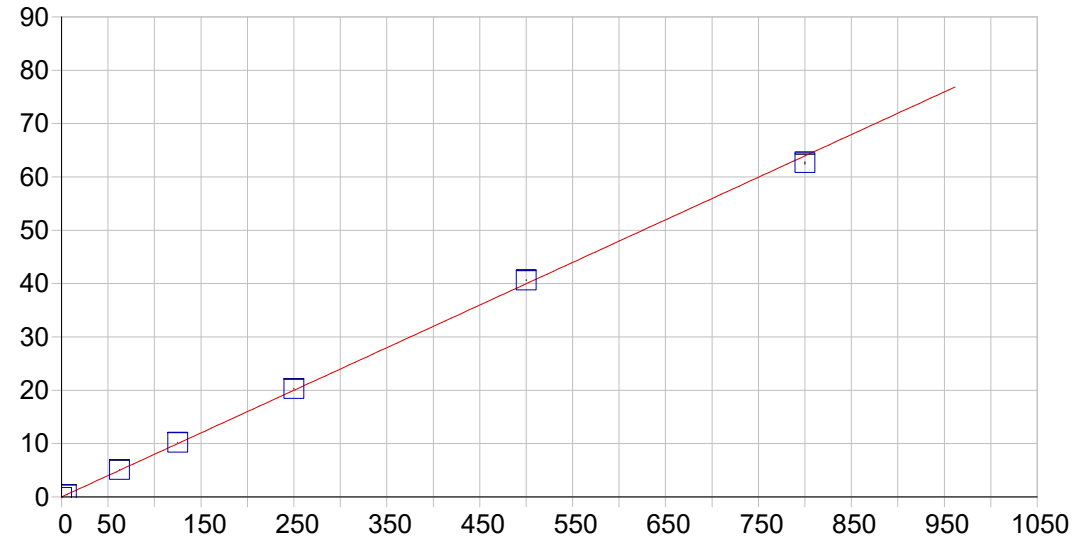
Cd 214.438 {457}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000740	Re-Slope:	1.000000
A1 (Gain):	2.407194	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999980	Status:	OK.
Std Error of Est:	0.000129		
Predicted MDL:	0.000130		
Predicted MQL:	0.000434		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00074	.000	1
S1	.00500	.00513	.000	2.64	.01310	.000	1
S2	.62500	.62858	.004	.572	1.5175	.005	1
S3	1.2500	1.2628	.013	1.02	3.0477	.006	1
S4	2.5000	2.5126	.013	.503	6.0634	.016	1
S5	5.0000	4.9710	-.029	-.581	11.996	.026	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



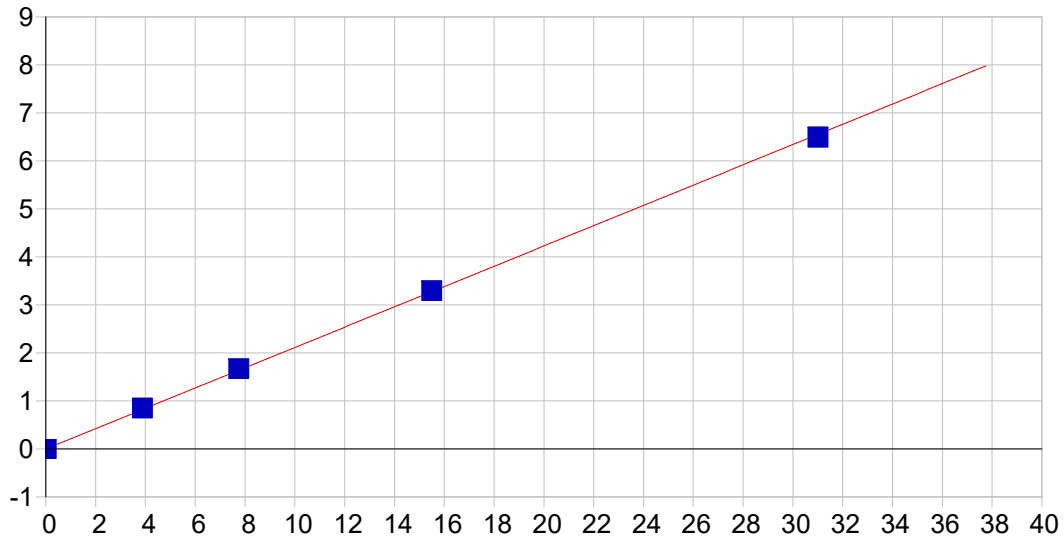
Ca 373.690 { 90}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003398	Re-Slope:	1.000000
A1 (Gain):	0.079926	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999810	Status:	OK.
Std Error of Est:	0.005436		
Predicted MDL:	0.017755		
Predicted MQL:	0.059183		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00063	-.001	.000	.00335	.001	1
S1	5.0000	5.3744	.374	7.49	.43295	.001	1
S2	62.500	63.587	1.09	1.74	5.0856	.030	1
S3	125.00	127.80	2.80	2.24	10.218	.035	1
S4	250.00	253.85	3.85	1.54	20.293	.062	1
S5	500.00	508.54	8.54	1.71	40.648	.103	1
S6	800.00	783.35	-16.7	-2.08	62.613	.217	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



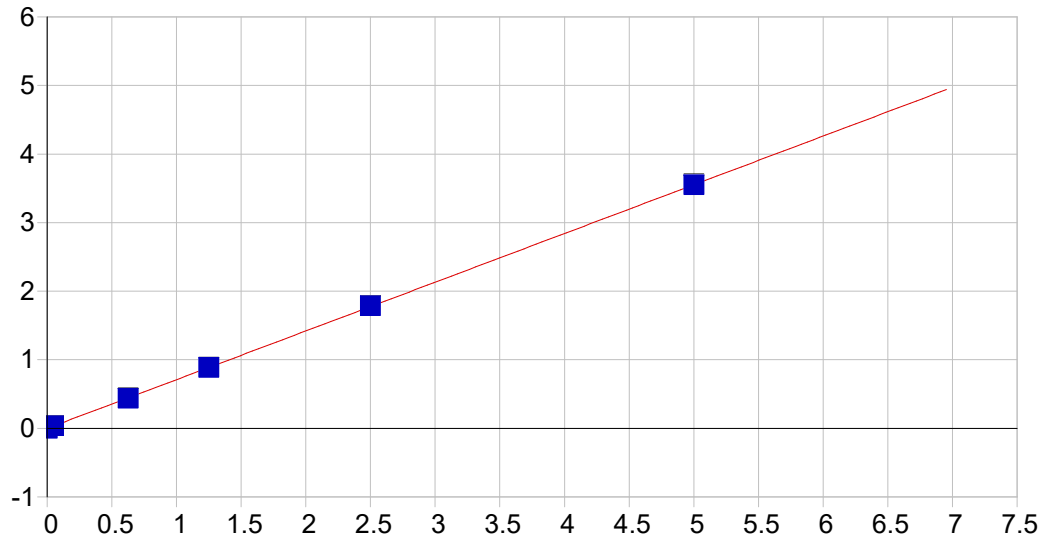
Cr 267.716 {126}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000251	Re-Slope:	1.000000
A1 (Gain):	0.211383	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.000078		
Predicted MDL:	0.001009		
Predicted MQL:	0.003364		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00025	.000	1
S1	.01000	.01100	.001	9.95	.00208	.000	1
S2	3.8750	3.9938	.119	3.07	.84489	.001	1
S3	7.7500	7.8706	.121	1.56	1.6653	.002	1
S4	15.500	15.572	.072	.464	3.2951	.001	1
S5	31.000	30.688	-.312	-1.01	6.4939	.006	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



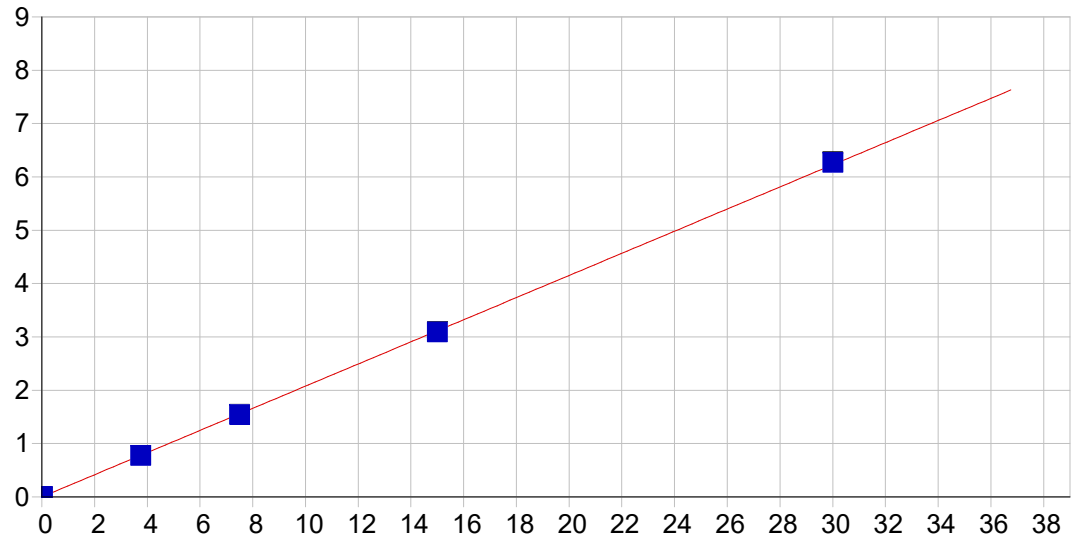
Co 228.616 {448}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000673	Re-Slope:	1.000000
A1 (Gain):	0.710481	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000072		
Predicted MDL:	0.000514		
Predicted MQL:	0.001713		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00067	.000	1
S1	.05000	.04956	-.000	-.883	.03466	.000	1
S2	.62500	.61859	-.006	-1.02	.43937	.000	1
S3	1.2500	1.2494	-.001	-.047	.88810	.003	1
S4	2.5000	2.5126	.013	.504	1.7866	.005	1
S5	5.0000	4.9948	-.005	-.103	3.5524	.010	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



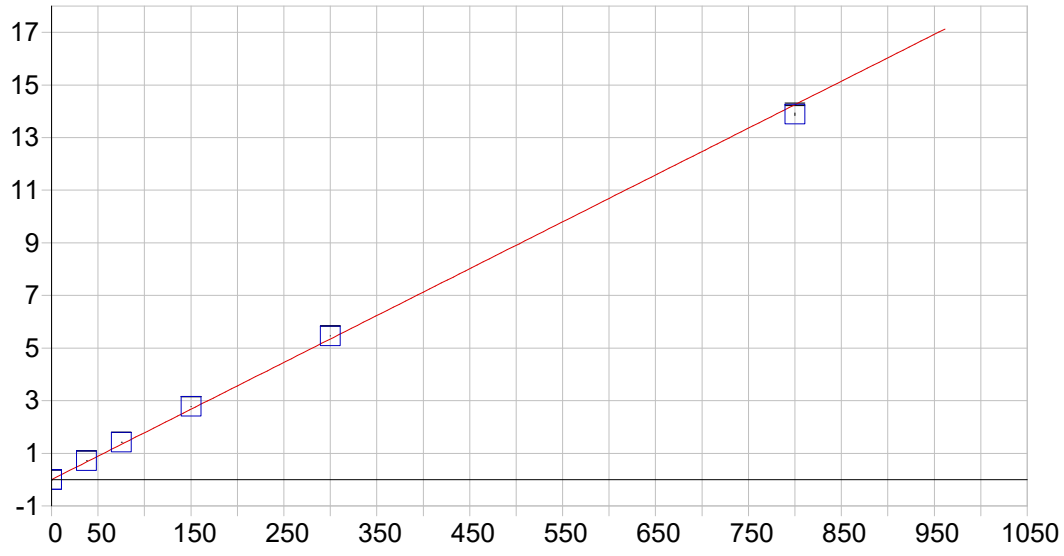
Cu 324.754 {104}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001341	Re-Slope:	1.000000
A1 (Gain):	0.207543	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000070		
Predicted MDL:	0.004268		
Predicted MQL:	0.014227		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00134	.000	1
S1	.02500	.02493	-.000	-.275	.00651	.000	1
S2	3.7500	3.7188	-.031	-.831	.77266	.002	1
S3	7.5000	7.4364	-.064	-.848	1.5437	.002	1
S4	15.000	14.888	-.112	-.748	3.0892	.013	1
S5	30.000	30.207	.207	.690	6.2666	.009	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



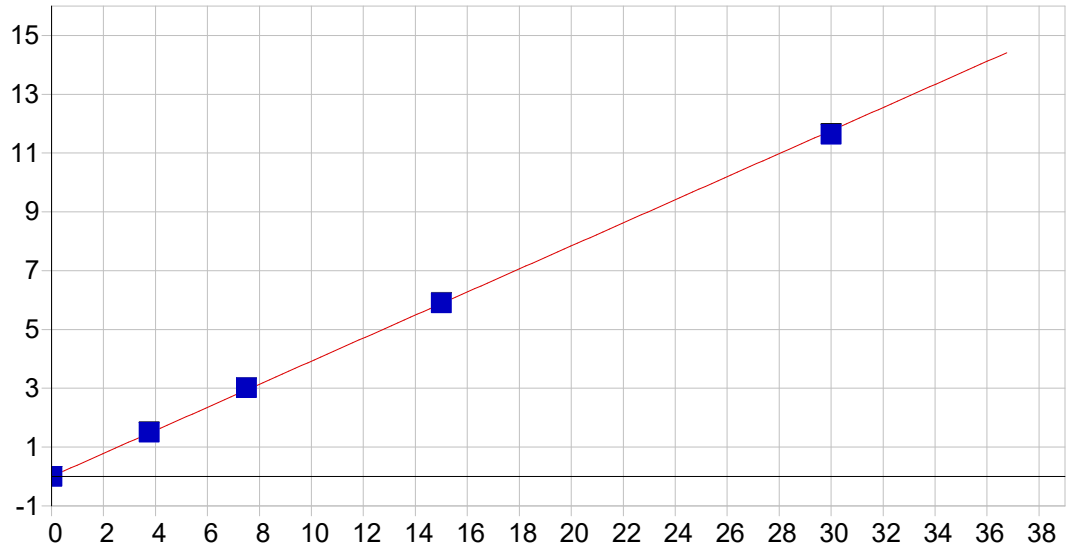
Fe 259.837 {130}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000215	Re-Slope:	1.000000
A1 (Gain):	0.017814	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999483	Status:	OK.
Std Error of Est:	0.000250		
Predicted MDL:	0.023024		
Predicted MQL:	0.076748		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	.00021	.000	1
S1	.10000	.11422	.014	14.2	.00225	.000	1
S2	37.500	40.070	2.57	6.85	.71404	.004	1
S3	75.000	79.885	4.89	6.51	1.4233	.002	1
S4	150.00	156.18	6.18	4.12	2.7825	.006	1
S5	300.00	306.60	6.60	2.20	5.4621	.005	1
S6	800.00	779.75	-20.2	-2.53	13.891	.050	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



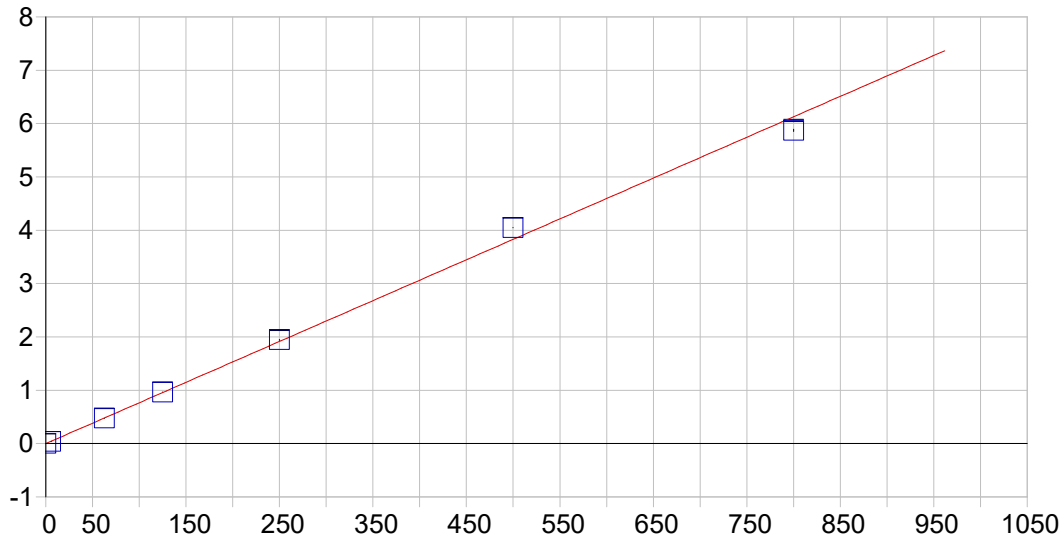
Mn 257.610 {131}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000287	Re-Slope:	1.000000
A1 (Gain):	0.392183	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000190		
Predicted MDL:	0.001106		
Predicted MQL:	0.003688		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00029	.000	1
S1	.01500	.01639	.001	9.28	.00616	.000	1
S2	3.7500	3.8438	.094	2.50	1.5074	.012	1
S3	7.5000	7.6799	.180	2.40	3.0121	.008	1
S4	15.000	15.051	.051	.338	5.9032	.015	1
S5	30.000	29.674	-.326	-1.09	11.639	.015	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



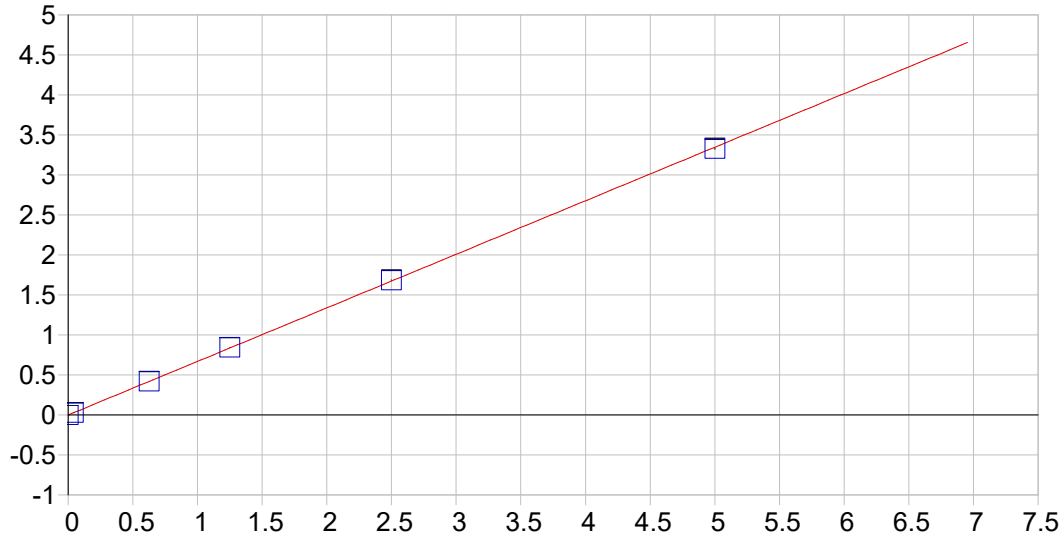
Mg 279.079 {121}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000468	Re-Slope:	1.000000
A1 (Gain):	0.007659	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999113	Status:	OK.
Std Error of Est:	0.001127		
Predicted MDL:	0.063672		
Predicted MQL:	0.212240		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00042	-.000	.000	-.00047	.001	1
S1	5.0000	5.2654	.265	5.31	.03986	.000	1
S2	62.500	62.065	-.435	-.696	.47490	.003	1
S3	125.00	125.97	.966	.773	.96433	.002	1
S4	250.00	253.82	3.82	1.53	1.9436	.008	1
S5	500.00	528.59	28.6	5.72	4.0481	.004	1
S6	800.00	766.80	-33.2	-4.15	5.8726	.020	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



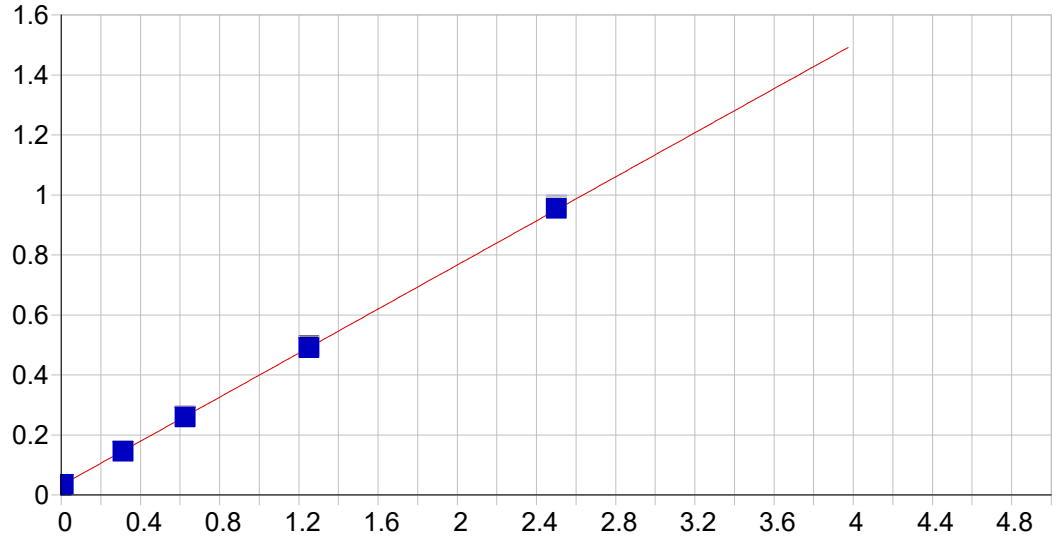
Ni 231.604 {446}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000648	Re-Slope:	1.000000
A1 (Gain):	0.669421	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000111		
Predicted MDL:	0.000583		
Predicted MQL:	0.001944		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00065	.000	1
S1	.04000	.04195	.002	4.87	.02743	.000	1
S2	.62500	.62594	.001	.150	.41837	.001	1
S3	1.2500	1.2590	.009	.721	.84216	.000	1
S4	2.5000	2.5177	.018	.708	1.6848	.004	1
S5	5.0000	4.9704	-.030	-.592	3.3266	.008	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



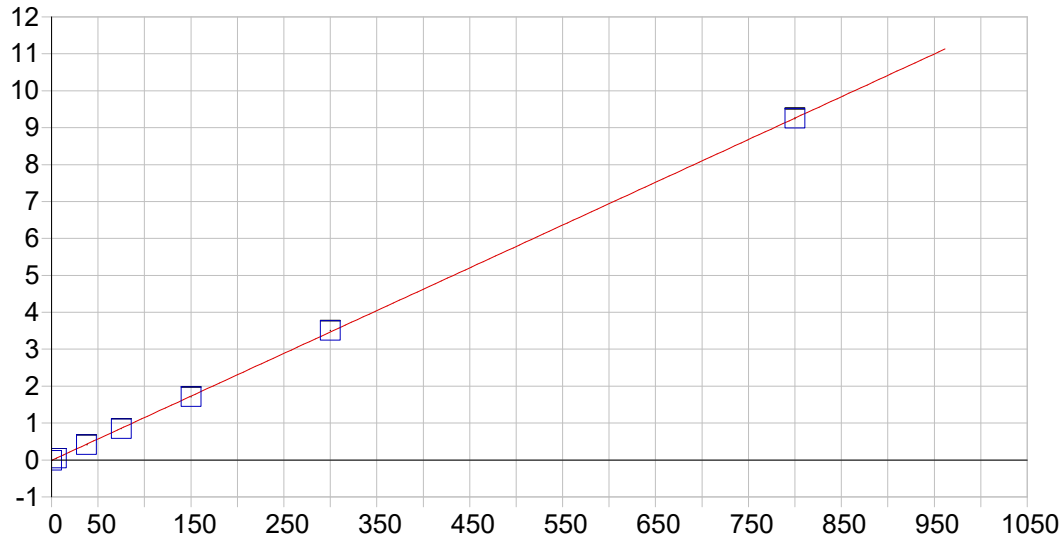
Ag 328.068 {103}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.032060	Re-Slope:	1.000000
A1 (Gain):	0.367244	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.03206	.000	1
S1	.01000	.00943	-.001	-5.74	.03551	.000	1
S2	.31250	.30657	-.006	-1.90	.14588	.001	1
S3	.62500	.61934	-.006	-.906	.26198	.000	1
S4	1.2500	1.2488	-.001	-.099	.49561	.001	1
S5	2.5000	2.5134	.013	.536	.96498	.001	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



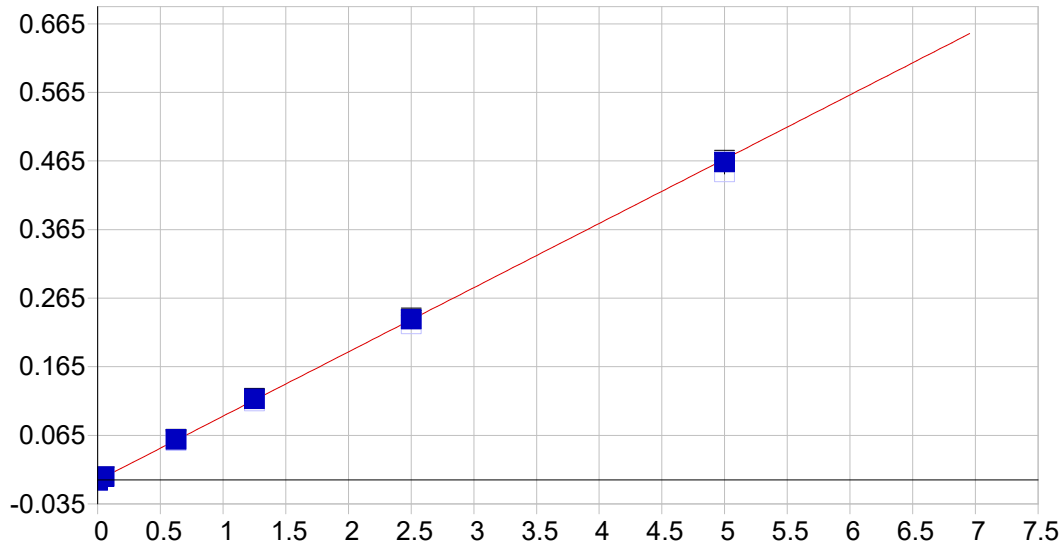
Na 818.326 { 41}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.009996	Re-Slope:	1.000000
A1 (Gain):	0.011586	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000300		
Predicted MDL:	0.317398		
Predicted MQL:	1.057994		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00030	.000	.000	-.00999	.001	1
S1	5.0000	4.8669	-.133	-2.66	.04639	.003	1
S2	37.500	36.569	-.931	-2.48	.41368	.002	1
S3	75.000	74.089	-.911	-1.22	.84836	.006	1
S4	150.00	148.67	-1.33	-.885	1.7125	.007	1
S5	300.00	303.73	3.73	1.24	3.5088	.011	1
S6	800.00	799.58	-.424	-.053	9.2535	.021	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



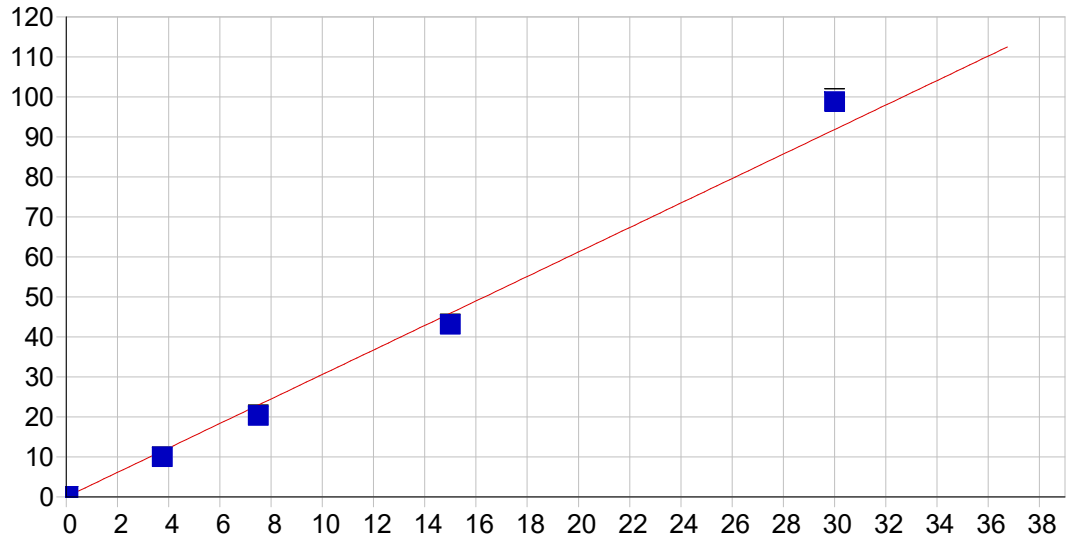
V 292.402 {115}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000741	Re-Slope:	1.000000
A1 (Gain):	0.093672	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999899	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.009398		
Predicted MQL:	0.031327		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00074	.001	1
S1	.05000	.05623	.006	12.5	.00452	.001	1
S2	.62500	.63631	.011	1.81	.05706	.001	1
S3	1.2500	1.2700	.020	1.60	.11462	.001	1
S4	2.5000	2.5100	.010	.400	.22718	.002	1
S5	5.0000	4.9523	-.048	-.953	.44876	.003	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



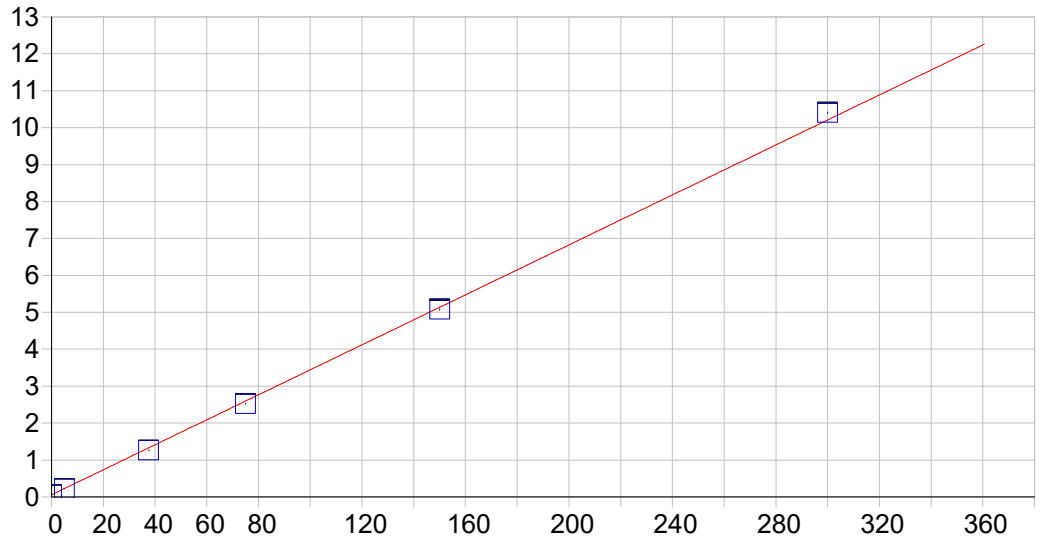
Zn 213.856 {158}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002648	Re-Slope:	1.000000
A1 (Gain):	3.060959	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996541	Status:	OK.
Std Error of Est:	0.018183		
Predicted MDL:	0.000428		
Predicted MQL:	0.001428		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00271	.001	1
S1	.06000	.05313	-.007	-11.4	.16618	.000	1
S2	3.7500	3.2652	-.485	-12.9	10.011	.023	1
S3	7.5000	6.6353	-.865	-11.5	20.341	.144	1
S4	15.000	14.079	-.921	-6.14	43.155	.070	1
S5	30.000	32.277	2.28	7.59	98.913	.695	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



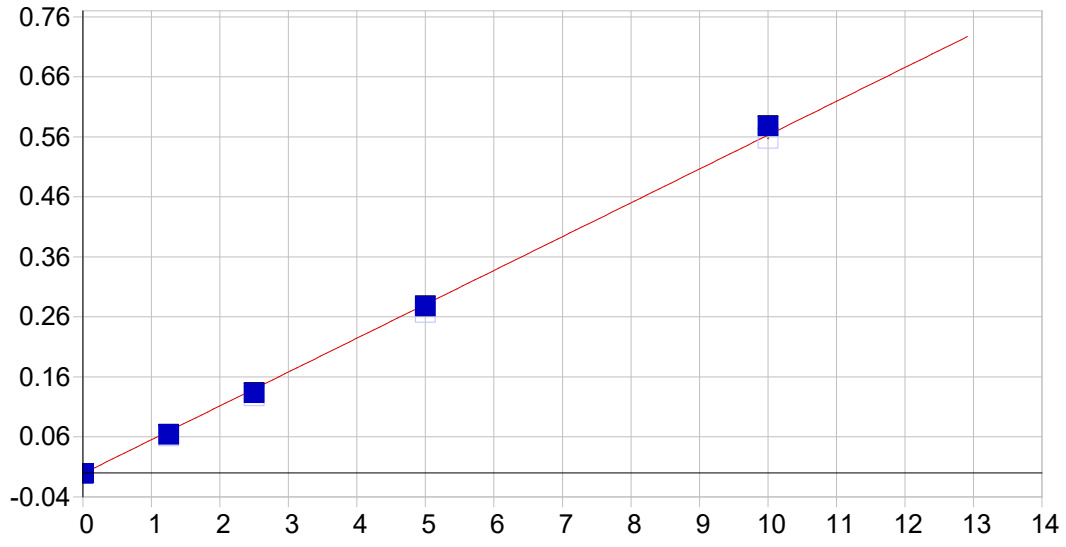
K 769.896 { 44}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.058227	Re-Slope:	1.000000
A1 (Gain):	0.033837	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999743	Status:	OK.
Std Error of Est:	0.001582		
Predicted MDL:	0.140364		
Predicted MQL:	0.467880		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00050	.001	.000	.05824	.002	1
S1	5.0000	4.8436	-.156	-3.13	.22212	.004	1
S2	37.500	35.664	-1.84	-4.90	1.2650	.002	1
S3	75.000	72.865	-2.14	-2.85	2.5237	.007	1
S4	150.00	148.24	-1.76	-1.17	5.0744	.018	1
S5	300.00	305.88	5.88	1.96	10.408	.017	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



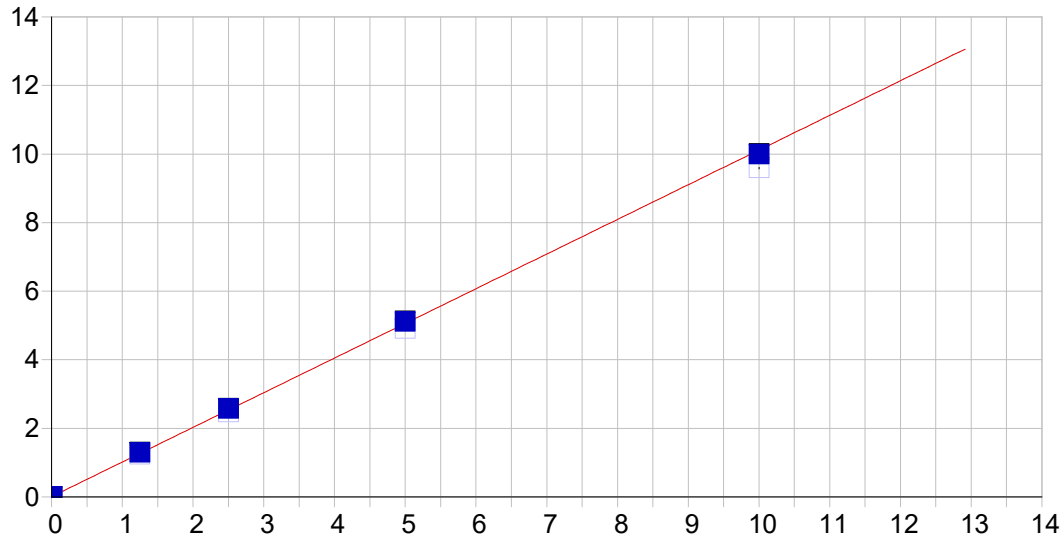
P 177.495 {490}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001147	Re-Slope:	1.000000
A1 (Gain):	0.056399	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999398	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.003411		
Predicted MQL:	0.011370		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00115	.000	1
S1	.01000	.00967	-.000	-3.33	-.00062	.000	1
S2	1.2500	1.1543	-.096	-7.66	.06136	.000	1
S3	2.5000	2.3820	-.118	-4.72	.12801	.000	1
S4	5.0000	4.9419	-.058	-1.16	.26720	.001	1
S5	10.000	10.272	.272	2.72	.55745	.001	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



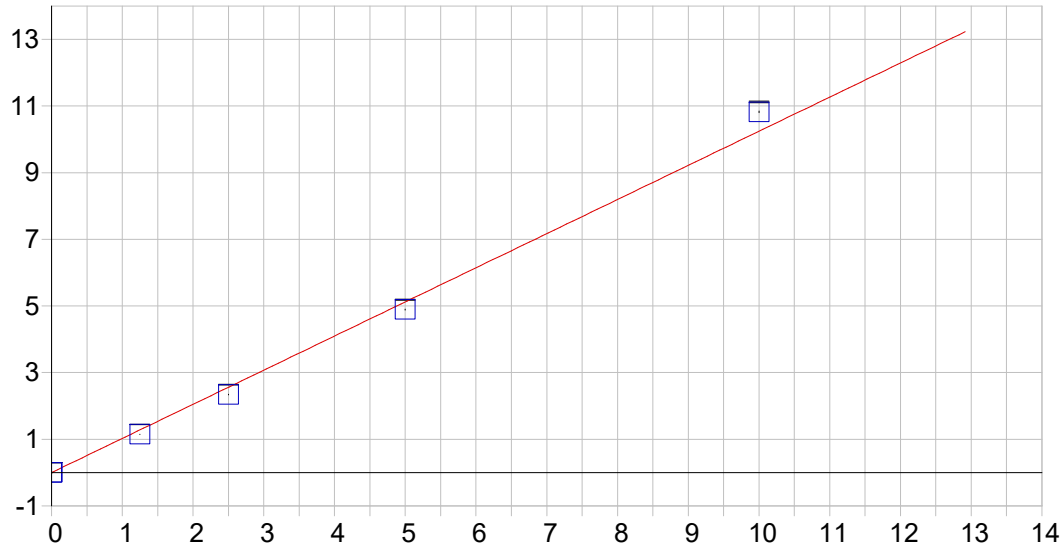
B 249.678 {135}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005843	Re-Slope:	1.000000
A1 (Gain):	1.011025	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999577	Status:	OK.
Std Error of Est:	0.000473		
Predicted MDL:	0.001159		
Predicted MQL:	0.003863		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00585	.001	1
S1	.01000	-.00060	-.011	-106.	.00515	.001	1
S2	1.2500	1.2769	.027	2.15	1.2458	.010	1
S3	2.5000	2.5452	.045	1.81	2.4770	.008	1
S4	5.0000	5.0557	.056	1.11	4.9132	.019	1
S5	10.000	9.8833	-.117	-1.17	9.5900	.021	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



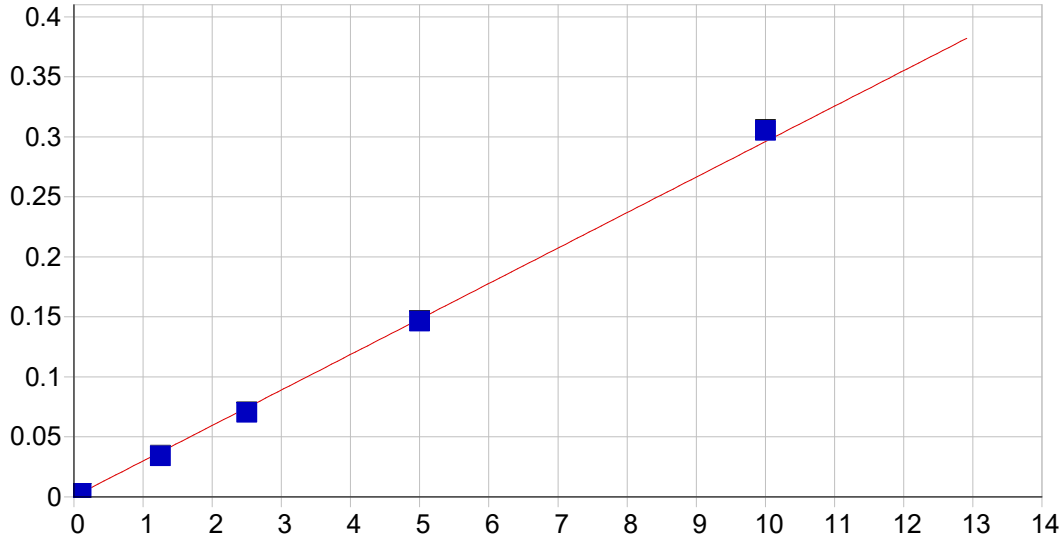
Mo 202.030 {467}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000109	Re-Slope:	1.000000
A1 (Gain):	1.024370	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998036	Status:	OK.
Std Error of Est:	0.001078		
Predicted MDL:	0.000445		
Predicted MQL:	0.001485		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00011	.000	1
S1	.01000	.00941	-.001	-5.94	.00953	.000	1
S2	1.2500	1.1206	-.129	-10.3	1.1478	.003	1
S3	2.5000	2.2867	-.213	-8.53	2.3423	.007	1
S4	5.0000	4.7756	-.224	-4.49	4.8919	.011	1
S5	10.000	10.568	.568	5.68	10.825	.024	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



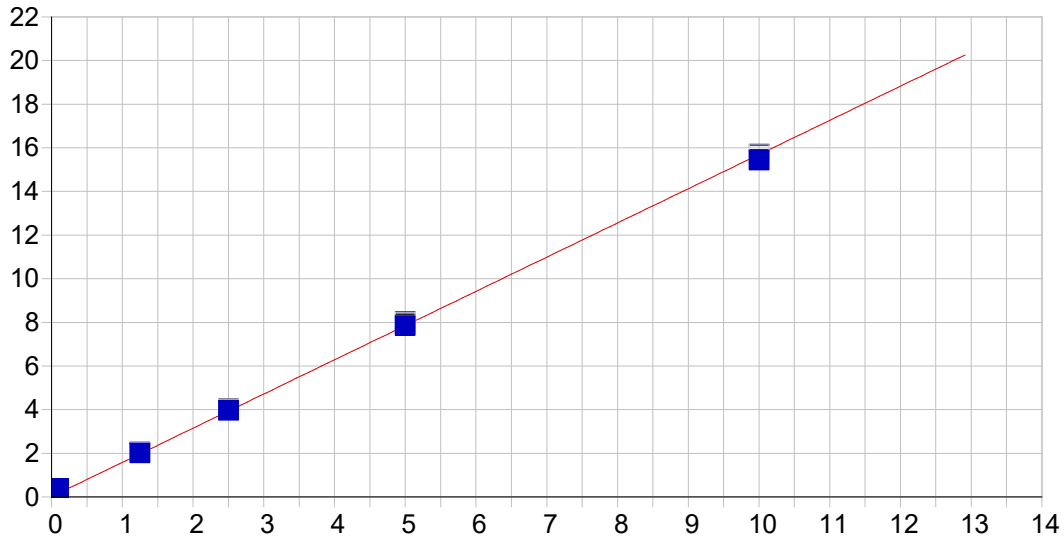
S 182.034 {485}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000409	Re-Slope:	1.000000
A1 (Gain):	0.029555	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999248	Status:	OK.
Std Error of Est:	0.000061		
Predicted MDL:	0.006403		
Predicted MQL:	0.021343		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00041	.000	1
S1	.10000	.08745	-.013	-12.5	.00299	.000	1
S2	1.2500	1.1448	-.105	-8.42	.03425	.000	1
S3	2.5000	2.3641	-.136	-5.44	.07029	.000	1
S4	5.0000	4.9399	-.060	-1.20	.14642	.000	1
S5	10.000	10.314	.314	3.14	.30526	.001	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



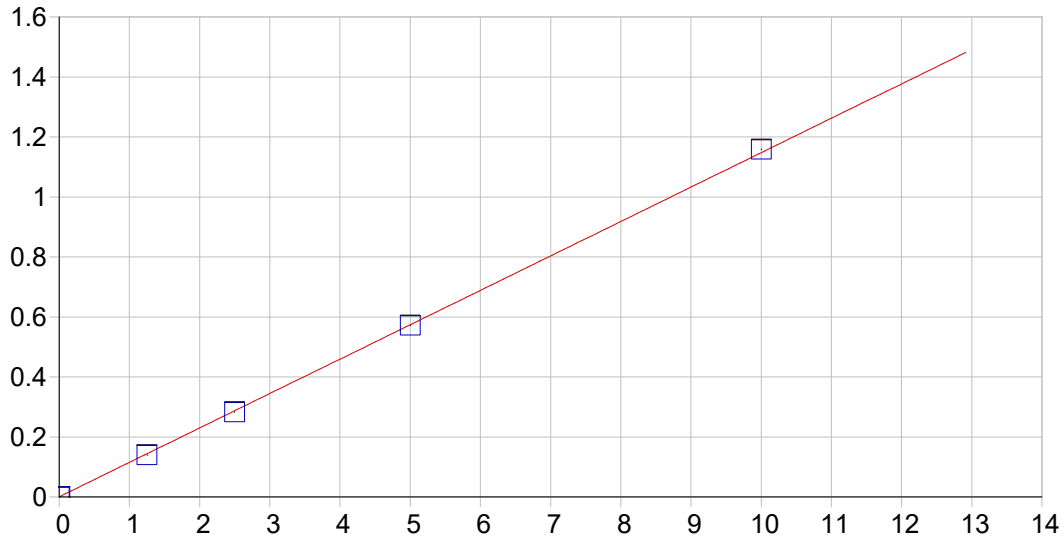
Si 251.611 {134}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014393	Re-Slope:	1.000000
A1 (Gain):	1.567723	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.995181	Status:	OK.
Std Error of Est:	0.008340		
Predicted MDL:	0.000642		
Predicted MQL:	0.002139		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	.01418	.001	1
S1	.10000	.23611	.136	136.	.38560	.002	1
S2	1.2500	1.2731	.023	1.85	2.0419	.014	1
S3	2.5000	2.5160	.016	.639	4.0221	.012	1
S4	5.0000	4.9971	-.003	-.059	7.9752	.043	1
S5	10.000	9.8290	-.171	-1.71	15.677	.035	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



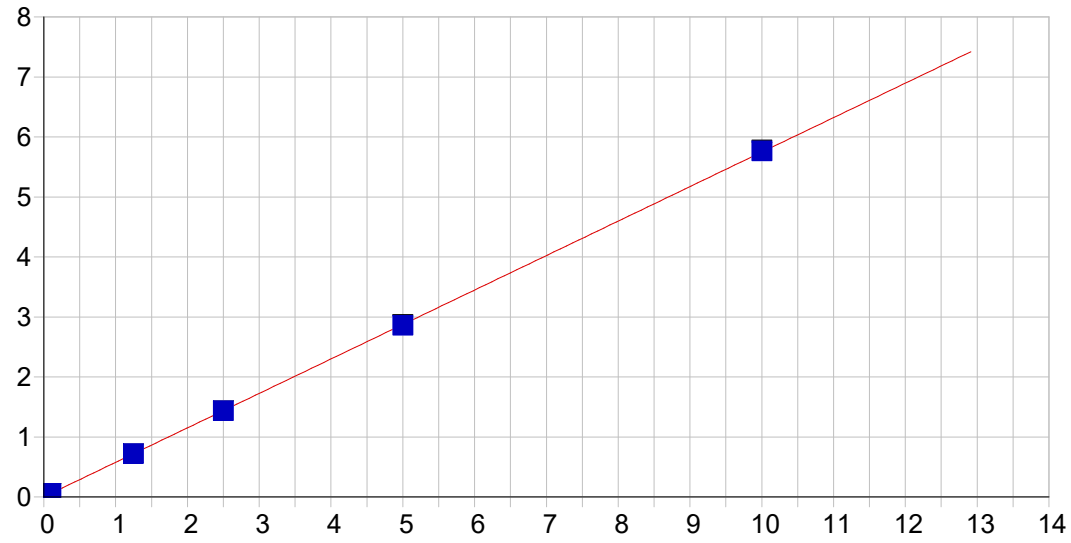
Sn 189.989 {478}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000450	Re-Slope:	1.000000
A1 (Gain):	0.114694	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999902	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.001657		
Predicted MQL:	0.005523		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00045	.000	1
S1	.00700	.00455	-.002	-35.0	.00097	.000	1
S2	1.2500	1.2125	-.038	-3.00	.13951	.000	1
S3	2.5000	2.4602	-.040	-1.59	.28262	.001	1
S4	5.0000	4.9804	-.020	-.392	.57167	.001	1
S5	10.000	10.099	.099	.994	1.1588	.001	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



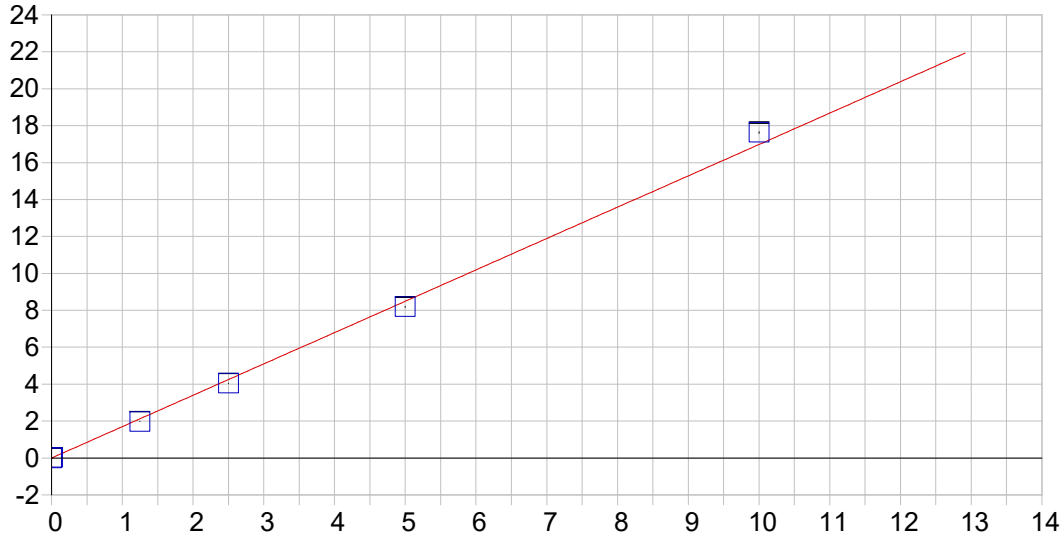
Ti 336.121 {100}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001312	Re-Slope:	1.000000
A1 (Gain):	0.574509	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.000104		
Predicted MDL:	0.001775		
Predicted MQL:	0.005917		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00131	.001	1
S1	.10000	.10066	.001	.658	.05912	.002	1
S2	1.2500	1.2470	-.003	-.238	.71738	.004	1
S3	2.5000	2.4967	-.003	-.132	1.4350	.004	1
S4	5.0000	4.9759	-.024	-.481	2.8586	.009	1
S5	10.000	10.030	.030	.297	5.7606	.017	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5



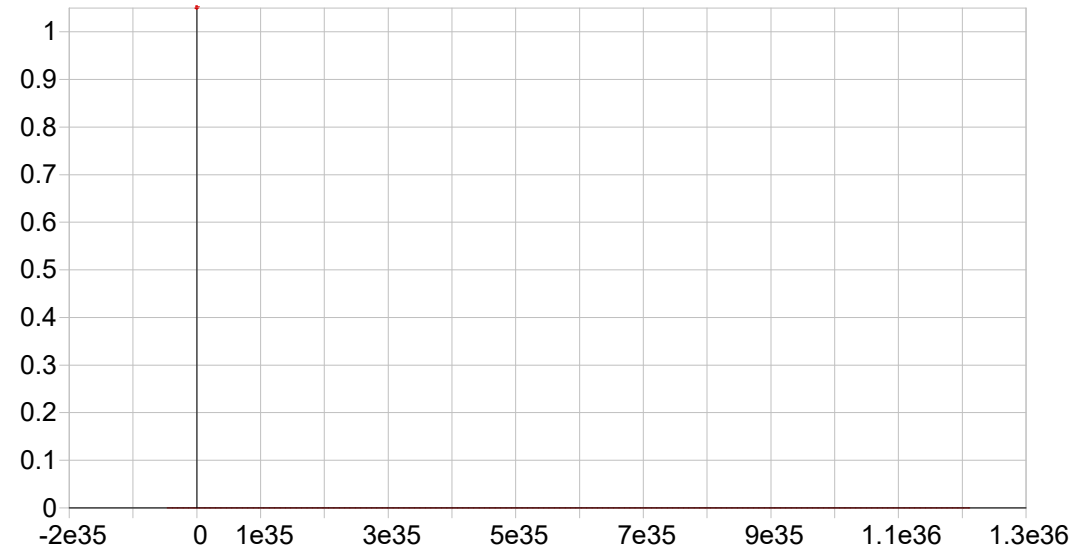
Li 670.784 { 50}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000069	Re-Slope:	1.000000
A1 (Gain):	1.698152	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999130	Status:	OK.
Std Error of Est:	0.001455		
Predicted MDL:	0.002138		
Predicted MQL:	0.007127		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00007	.000	1
S5	10.000	10.383	.383	3.83	17.631	.048	1
S4	5.0000	4.8222	-.178	-3.56	8.1887	.028	1
S3	2.5000	2.3802	-.120	-4.79	4.0418	.015	1
S2	1.2500	1.1640	-.086	-6.88	1.9767	.013	1
S1	.01500	.01587	.001	5.79	.02688	.001	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

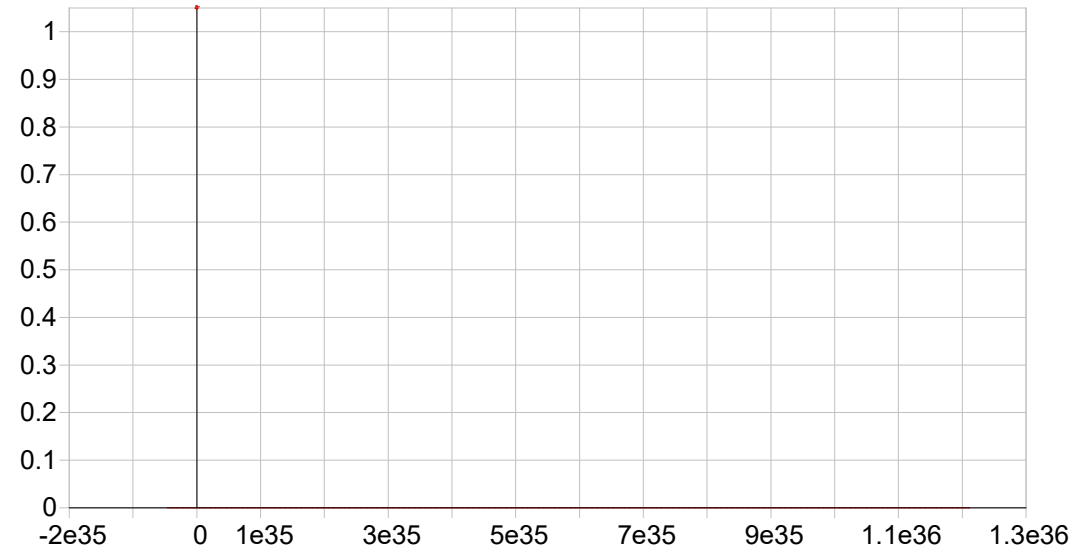


Y 224.306 {450}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 360.073 { 94}*

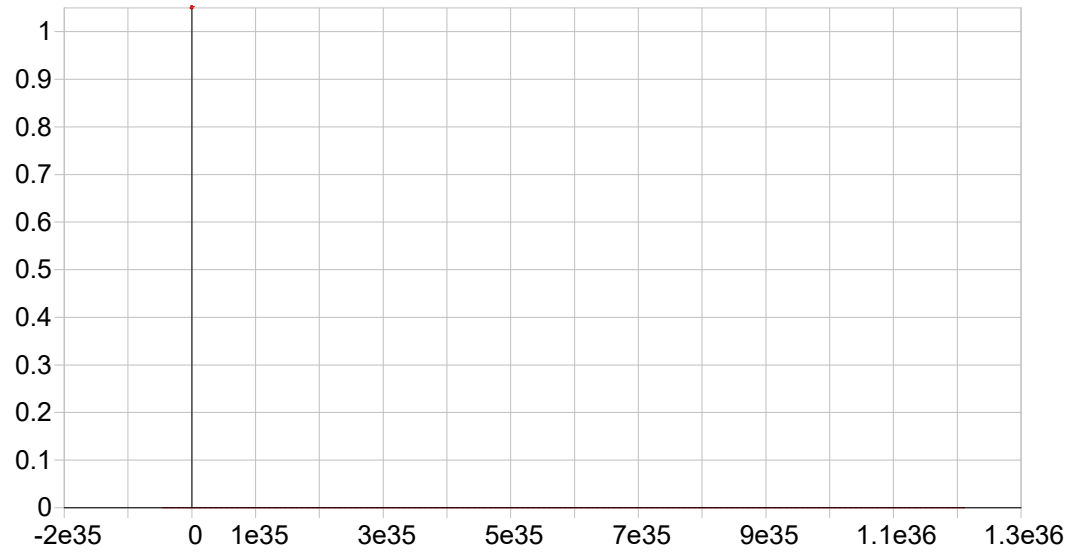
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 371.030 { 91}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

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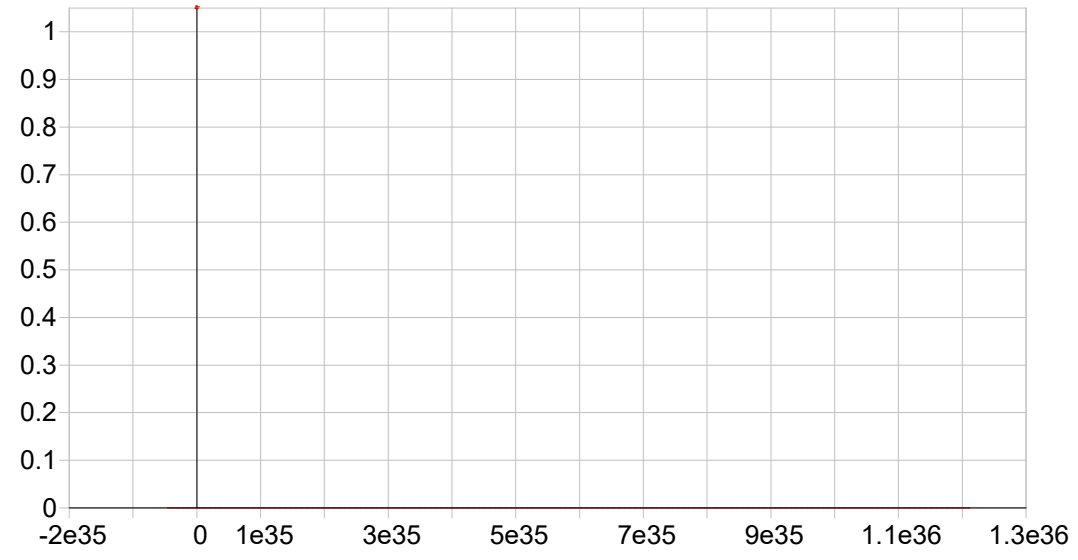
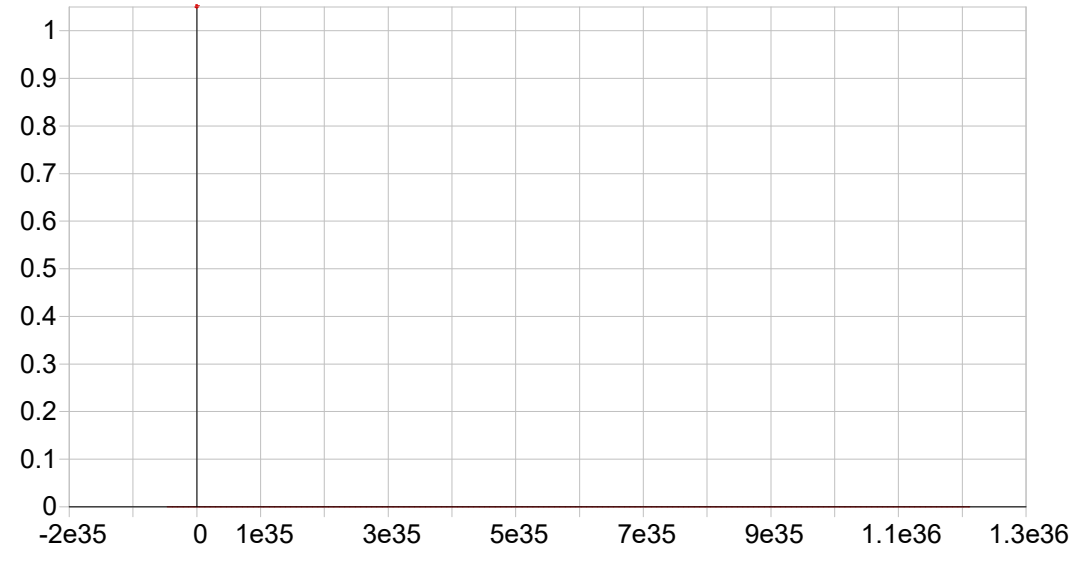


Y 224.306 {150}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

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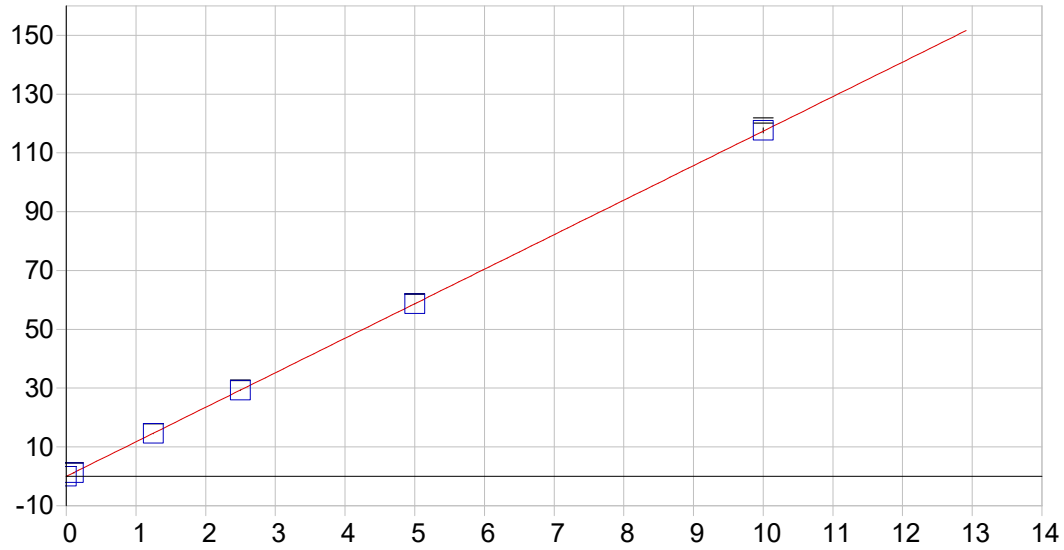
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Sr 407.771 { 83}

Date of Fit:	10/18/2024 5:37:42	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001911	Re-Slope:	1.000000
A1 (Gain):	11.740473	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.002586		
Predicted MDL:	0.000133		
Predicted MQL:	0.000444		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00188	.002	1
S1	.10000	.10390	.004	3.90	1.2217	.002	1
S2	1.2500	1.2390	-.011	-.879	14.548	.049	1
S3	2.5000	2.4919	-.008	-.322	29.259	.095	1
S4	5.0000	4.9944	-.006	-.112	58.639	.098	1
S5	10.000	10.021	.021	.207	117.65	.865	1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S0 Acquired: 10/18/2024 11:34:50 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00005	-.00017	-.00079	.00118	-.00001	-.00271	.05104	-.00170
Stddev	.00007	.00023	.00042	.00007	.00041	.00209	.00524	.00087
%RSD	153.94	140.86	53.799	5.9572	2742.4	77.146	10.262	51.095
#1	-.00004	.00010	-.00123	.00126	-.00048	-.00293	.04577	-.00109
#2	.00008	-.00024	-.00038	.00113	.00016	-.00052	.05624	-.00132
#3	.00009	-.00035	-.00075	.00115	.00028	-.00468	.05110	-.00270

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00074	.00335	-.00025	-.00067	.00134	.00021	-.00029	-.00047
Stddev	.00022	.00142	.00017	.00030	.00046	.00023	.00014	.00077
%RSD	29.485	42.463	69.645	44.584	34.250	108.89	48.436	162.77
#1	.00056	.00313	-.00016	-.00041	.00173	.00048	-.00035	-.00020
#2	.00098	.00487	-.00045	-.00100	.00147	.00011	-.00013	-.00134
#3	.00068	.00205	-.00014	-.00061	.00083	.00005	-.00038	.00012

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00065	.03206	-.00999	-.00074	.00271	.05824	-.00115	.00585
Stddev	.00030	.00034	.00087	.00074	.00084	.00196	.00006	.00084
%RSD	45.722	1.0716	8.7258	100.07	30.957	3.3721	5.5485	14.399
#1	-.00075	.03216	-.00934	-.00141	.00191	.05600	-.00107	.00517
#2	-.00032	.03234	-.00965	-.00087	.00264	.05964	-.00118	.00679
#3	-.00088	.03168	-.01098	.00006	.00359	.05909	-.00119	.00560

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00011	.00041	.01418	.00045	.00131	-.00007	.00188
Stddev	.00022	.00004	.00064	.00011	.00122	.00038	.00197
%RSD	201.70	10.783	4.5140	24.632	92.751	569.09	104.77
#1	-.00032	.00040	.01470	.00036	-.00009	.00020	.00334
#2	-.00010	.00046	.01346	.00042	.00206	-.00050	.00266
#3	.00011	.00037	.01438	.00057	.00196	.00010	-.00036

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S0 Acquired: 10/18/2024 11:34:50 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1010.6	22246.	2631.5	884.19	1869.6
Stddev	1.3	66.	17.5	4.42	2.6
%RSD	.12533	.29582	.66324	.50006	.13745
#1	1009.1	22196.	2640.7	889.13	1866.7
#2	1011.5	22223.	2611.4	880.61	1871.7
#3	1011.2	22321.	2642.5	882.84	1870.3

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S1 Acquired: 10/18/2024 11:39:27 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00027	.00160	.00110	.00349	.01120	.01949	1.1533	.04037
Stddev	.00012	.00012	.00043	.00032	.00026	.00115	.0022	.00122
%RSD	44.997	7.8058	39.401	9.2546	2.3604	5.9119	.18879	3.0217
#1	.00013	.00158	.00067	.00320	.01106	.01975	1.1541	.04110
#2	.00031	.00148	.00153	.00344	.01103	.01823	1.1550	.03896
#3	.00036	.00173	.00111	.00384	.01151	.02049	1.1509	.04104

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01310	.43295	.00208	.03466	.00651	.00225	.00616	.03986
Stddev	.00026	.00113	.00015	.00030	.00037	.00025	.00038	.00040
%RSD	1.9667	.26033	7.3644	.87599	5.6918	10.927	6.1341	.99346
#1	.01318	.43322	.00190	.03431	.00640	.00215	.00659	.04023
#2	.01331	.43392	.00214	.03486	.00693	.00207	.00592	.03945
#3	.01281	.43172	.00218	.03481	.00621	.00253	.00596	.03990

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02743	.03551	.04639	.00452	.16618	.22212	-.00062	.00515
Stddev	.00023	.00017	.00348	.00093	.00046	.00358	.00004	.00105
%RSD	.85575	.48522	7.5033	20.664	.27701	1.6111	6.0901	20.333
#1	.02764	.03568	.04695	.00423	.16604	.22349	-.00058	.00395
#2	.02718	.03552	.04266	.00556	.16669	.21806	-.00062	.00561
#3	.02749	.03533	.04956	.00376	.16580	.22481	-.00065	.00588

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00953	.00299	.38560	.00097	.05912	.02688	1.2217
Stddev	.00015	.00007	.00215	.00005	.00154	.00134	.0022
%RSD	1.5391	2.3732	.55811	5.6379	2.6059	4.9723	.18337
#1	.00963	.00304	.38759	.00092	.06089	.02842	1.2236
#2	.00958	.00303	.38590	.00103	.05833	.02615	1.2224
#3	.00936	.00291	.38331	.00097	.05813	.02606	1.2192

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S1 Acquired: 10/18/2024 11:39:27 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1016.2	22496.	2660.8	891.42	1864.9
Stddev	.6	110.	11.3	3.09	3.3
%RSD	.05795	.49023	.42321	.34643	.17962
#1	1015.6	22378.	2649.1	887.86	1861.1
#2	1016.7	22514.	2661.8	893.44	1866.4
#3	1016.2	22597.	2671.6	892.95	1867.3

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S2 Acquired: 10/18/2024 11:44:02 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03331	.10110	1.0140	.09695	.23614	4.2845	13.144	1.0408
Stddev	.00006	.00053	.0010	.00095	.00076	.0189	.027	.0049
%RSD	.18534	.52036	.09463	.98047	.32159	.44160	.20719	.46716
#1	.03333	.10135	1.0132	.09585	.23590	4.2839	13.151	1.0376
#2	.03324	.10050	1.0137	.09753	.23553	4.3038	13.167	1.0464
#3	.03336	.10146	1.0150	.09747	.23699	4.2660	13.114	1.0385

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.5175	5.0856	.84489	.43937	.77266	.71404	1.5074	.47490
Stddev	.0050	.0305	.00085	.00046	.00160	.00449	.0119	.00279
%RSD	.33181	.59949	.10020	.10455	.20694	.62859	.79080	.58783
#1	1.5119	5.0979	.84584	.43984	.77284	.71843	1.5143	.47723
#2	1.5188	5.1081	.84420	.43892	.77417	.71424	1.5143	.47567
#3	1.5217	5.0509	.84464	.43935	.77098	.70946	1.4936	.47181

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.41837	.14588	.41368	.05706	10.011	1.2650	.06136	1.2458
Stddev	.00108	.00051	.00182	.00061	.023	.0019	.00045	.0098
%RSD	.25832	.34794	.43896	1.0642	.23216	.14810	.73993	.78438
#1	.41892	.14637	.41508	.05763	9.9929	1.2652	.06084	1.2515
#2	.41906	.14536	.41163	.05714	10.037	1.2667	.06164	1.2514
#3	.41712	.14592	.41433	.05642	10.003	1.2630	.06161	1.2345

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1478	.03425	2.0419	.13951	.71738	1.9767	14.548
Stddev	.0035	.00036	.0144	.00020	.00361	.0133	.049
%RSD	.30220	1.0623	.70419	.14583	.50370	.67398	.34006
#1	1.1454	.03426	2.0405	.13975	.71595	1.9792	14.572
#2	1.1463	.03388	2.0570	.13938	.72149	1.9886	14.582
#3	1.1518	.03460	2.0283	.13941	.71471	1.9623	14.492

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S2 Acquired: 10/18/2024 11:44:02 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	963.33	22118.	2666.1	838.88	1696.0
Stddev	2.19	74.	20.0	2.85	2.4
%RSD	.22764	.33361	.74856	.33990	.14180
#1	965.66	22033.	2655.0	838.71	1697.9
#2	963.01	22162.	2654.2	836.12	1693.3
#3	961.31	22159.	2689.2	841.81	1696.9

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S3 Acquired: 10/18/2024 11:48:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06915	.19933	2.0417	.19781	.48819	8.6737	26.523	2.0674
Stddev	.00025	.00088	.0053	.00098	.00167	.0176	.053	.0118
%RSD	.35694	.44307	.25926	.49600	.34265	.20234	.19865	.56993
#1	.06896	.19867	2.0373	.19724	.49012	8.6937	26.582	2.0804
#2	.06943	.19898	2.0403	.19894	.48735	8.6666	26.508	2.0575
#3	.06908	.20033	2.0476	.19724	.48711	8.6607	26.480	2.0642

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.0477	10.218	1.6653	.88810	1.5437	1.4233	3.0121	.96433
Stddev	.0059	.035	.0017	.00287	.0016	.0019	.0078	.00164
%RSD	.19462	.34259	.09929	.32350	.10598	.13348	.25813	.17029
#1	3.0414	10.258	1.6672	.88542	1.5455	1.4246	3.0183	.96413
#2	3.0485	10.201	1.6647	.88774	1.5423	1.4243	3.0146	.96607
#3	3.0532	10.195	1.6640	.89113	1.5433	1.4211	3.0033	.96280

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.84216	.26198	.84836	.11462	20.341	2.5237	.12801	2.4770
Stddev	.00043	.00031	.00604	.00058	.144	.0073	.00042	.0083
%RSD	.05122	.12024	.71170	.50813	.71036	.28926	.33183	.33623
#1	.84197	.26224	.85092	.11528	20.403	2.5319	.12756	2.4865
#2	.84266	.26208	.85270	.11419	20.444	2.5217	.12808	2.4737
#3	.84186	.26163	.84147	.11439	20.176	2.5177	.12840	2.4709

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.3423	.07029	4.0221	.28262	1.4350	4.0418	29.259
Stddev	.0072	.00029	.0122	.00092	.0038	.0148	.095
%RSD	.30897	.41817	.30350	.32405	.26299	.36641	.32311
#1	2.3416	.07055	4.0362	.28203	1.4392	4.0543	29.367
#2	2.3354	.07034	4.0159	.28215	1.4319	4.0457	29.218
#3	2.3498	.06997	4.0143	.28368	1.4338	4.0255	29.191

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S3 Acquired: 10/18/2024 11:48:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	917.49	21765.	2654.8	792.15	1615.3
Stddev	1.72	22.	6.9	4.37	2.0
%RSD	.18743	.10073	.25831	.55204	.12166
#1	917.72	21748.	2646.9	789.98	1617.5
#2	919.08	21757.	2658.9	789.29	1615.0
#3	915.66	21790.	2658.6	797.19	1613.6

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S4 Acquired: 10/18/2024 11:52:35 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.14268	.39559	4.1022	.40876	1.0306	17.554	53.298	4.0995
Stddev	.00037	.00129	.0097	.00050	.0036	.049	.060	.0176
%RSD	.25818	.32678	.23723	.12313	.34610	.28086	.11225	.42889
#1	.14232	.39455	4.0911	.40919	1.0266	17.568	53.330	4.0862
#2	.14306	.39519	4.1064	.40888	1.0319	17.595	53.334	4.1194
#3	.14265	.39704	4.1091	.40821	1.0334	17.499	53.229	4.0929

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.0634	20.293	3.2951	1.7866	3.0892	2.7825	5.9032	1.9436
Stddev	.0163	.062	.0010	.0049	.0126	.0057	.0147	.0077
%RSD	.26919	.30438	.03194	.27198	.40674	.20359	.24989	.39881
#1	6.0460	20.339	3.2962	1.7814	3.0952	2.7890	5.9080	1.9487
#2	6.0659	20.317	3.2948	1.7876	3.0976	2.7797	5.9151	1.9474
#3	6.0783	20.222	3.2942	1.7909	3.0748	2.7788	5.8867	1.9347

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.6848	.49561	1.7125	.22718	43.155	5.0744	.26720	4.9132
Stddev	.0041	.00095	.0067	.00188	.070	.0185	.00067	.0188
%RSD	.24410	.19141	.39382	.82809	.16239	.36392	.25118	.38182
#1	1.6801	.49510	1.7180	.22841	43.095	5.0736	.26664	4.9227
#2	1.6863	.49502	1.7145	.22812	43.232	5.0932	.26703	4.9254
#3	1.6879	.49670	1.7049	.22502	43.138	5.0563	.26795	4.8916

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.8919	.14642	7.9752	.57167	2.8586	8.1887	58.639
Stddev	.0109	.00049	.0427	.00082	.0093	.0280	.098
%RSD	.22249	.33216	.53594	.14284	.32550	.34187	.16734
#1	4.8826	.14587	7.9942	.57073	2.8604	8.2091	58.687
#2	4.8892	.14662	8.0051	.57206	2.8669	8.2002	58.703
#3	4.9039	.14679	7.9262	.57222	2.8485	8.1568	58.526

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S4 Acquired: 10/18/2024 11:52:35 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	841.19	21059.	2591.1	695.88	1511.6
Stddev	2.23	15.	10.0	1.85	3.8
%RSD	.26479	.07252	.38567	.26633	.25285
#1	841.51	21050.	2590.0	697.68	1514.0
#2	843.24	21076.	2581.6	696.00	1513.5
#3	838.82	21049.	2601.5	693.98	1507.1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S5 Acquired: 10/18/2024 11:56:48 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.29720	.77820	8.2837	.90894	2.3762	36.133	106.40	7.9918
Stddev	.00049	.00173	.0152	.00527	.0080	.061	.17	.0276
%RSD	.16599	.22177	.18327	.57978	.33804	.16862	.15640	.34477
#1	.29663	.77634	8.2666	.91077	2.3744	36.085	106.25	8.0045
#2	.29755	.77974	8.2889	.90300	2.3692	36.202	106.58	7.9602
#3	.29741	.77851	8.2955	.91305	2.3850	36.114	106.38	8.0108

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.996	40.648	6.4939	3.5524	6.2666	5.4621	11.639	4.0481
Stddev	.026	.103	.0063	.0097	.0094	.0051	.015	.0043
%RSD	.21581	.25359	.09682	.27221	.14965	.09406	.13234	.10565
#1	11.966	40.696	6.5005	3.5413	6.2570	5.4637	11.655	4.0465
#2	12.006	40.719	6.4880	3.5570	6.2672	5.4662	11.639	4.0530
#3	12.015	40.530	6.4932	3.5589	6.2757	5.4563	11.624	4.0449

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.3266	.96498	3.5088	.44876	98.913	10.408	.55745	9.5900
Stddev	.0083	.00052	.0108	.00286	.695	.017	.00061	.0210
%RSD	.25056	.05432	.30760	.63794	.70251	.16797	.10997	.21951
#1	3.3172	.96552	3.4978	.44582	98.523	10.404	.55730	9.6000
#2	3.3330	.96447	3.5193	.45153	99.715	10.428	.55812	9.5658
#3	3.3297	.96496	3.5094	.44894	98.501	10.393	.55692	9.6043

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.825	.30526	15.677	1.1588	5.7606	17.631	117.65
Stddev	.024	.00052	.035	.0009	.0168	.048	.86
%RSD	.22349	.17077	.22298	.08008	.29241	.27020	.73482
#1	10.825	.30474	15.715	1.1581	5.7506	17.644	118.14
#2	10.801	.30578	15.646	1.1584	5.7800	17.672	118.16
#3	10.849	.30527	15.670	1.1598	5.7511	17.579	116.65

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S5 Acquired: 10/18/2024 11:56:48 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	718.25	20202.	2538.5	539.76	1397.6
Stddev	1.39	29.	4.3	4.77	3.8
%RSD	.19420	.14349	.16883	.88303	.27007
#1	718.61	20171.	2533.7	542.35	1402.0
#2	719.44	20207.	2540.0	534.26	1395.3
#3	716.71	20228.	2541.8	542.67	1395.7

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: S6 Acquired: 10/18/2024 12:01:15 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	91.153	62.613	13.891	5.8726	9.2535
Stddev	.560	.217	.050	.0197	.0206
%RSD	.61396	.34733	.35738	.33486	.22227
#1	91.104	62.632	13.907	5.8765	9.2620
#2	91.735	62.820	13.931	5.8900	9.2686
#3	90.619	62.387	13.835	5.8513	9.2301

Int. Std.	Y_3710
Units	Cts/S
Avg	2501.5
Stddev	13.2
%RSD	.52709
#1	2487.1
#2	2504.3
#3	2513.1

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: ICV003 Acquired: 10/18/2024 12:05:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.013800	.9900993	.9638079	1.055519	1.043573	2.377552
Stddev	.003578	.0050232	.0023168	.002945	.001424	.023920
%RSD	.3529437	.5073425	.2403760	.2789627	.1364139	1.006072
#1	1.009717	.9864112	.9651594	1.057466	1.041943	2.404703
#2	1.016385	.9880664	.9651314	1.052132	1.044202	2.368372
#3	1.015299	.9958204	.9611327	1.056960	1.044573	2.359583

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5066727	.5264657	.4757311	10.20200	.5495463	.4918410
Stddev	.0018329	.0060909	.0005959	.08294	.0022962	.0009408
%RSD	.3617522	1.156949	.1252670	.8129649	.4178400	.1912757
#1	.5087398	.5329538	.4759719	10.29763	.5503735	.4921009
#2	.5060330	.5255729	.4761690	10.15861	.5469510	.4926245
#3	.5052455	.5208704	.4750525	10.14976	.5513143	.4907976

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4828227	10.82171	.5332356	5.698438	.5008785	.2400044
Stddev	.0044184	.11549	.0036551	.111608	.0017294	.0011791
%RSD	.9151185	1.067174	.6854561	1.958577	.3452698	.4912813
#1	.4806479	10.91961	.5374520	5.822839	.5026632	.2406935
#2	.4879070	10.69435	.5312894	5.607087	.5007620	.2386430
#3	.4799133	10.85118	.5309654	5.665389	.4992103	.2406768

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.02277	.5297751	.9931991	9.352033	F .0042573	F .0171382
Stddev	.18897	.0130889	.0066174	.094866	.0007576	.0006567
%RSD	1.885379	2.470657	.6662716	1.014389	17.79626	3.832009
#1	9.95753	.5308455	.9915119	9.439980	.0048459	.0164127
#2	10.23572	.5161838	1.000497	9.364616	.0034025	.0173096
#3	9.87507	.5422959	.987589	9.251504	.0045235	.0176922

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: ICV003 Acquired: 10/18/2024 12:05:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV003 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000274	F .0015508	F .0022829	F -.001208	F -.001299	F .0096704
Stddev	.000370	.0062338	.0002695	.000674	.000422	.0020532
%RSD	134.8603	401.9756	11.80450	55.79994	32.52382	21.23141
#1	-.000387	.0085577	.0019798	-.000660	-.000865	.0111918
#2	-.000575	-.000526	.0023735	-.001004	-.001709	.0073351
#3	.000139	-.003380	.0024954	-.001961	-.001321	.0104844

Elem	Sr4077
Units	ppm
Avg	F .0013731
Stddev	.0000584
%RSD	4.252605
#1	.0014219
#2	.0013084
#3	.0013889

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1002.850	22446.20	2685.816	891.7987	1834.226
Stddev	2.084	72.44	25.887	3.5692	1.330
%RSD	.2077582	.3227163	.9638537	.4002230	.0725051
#1	1002.215	22464.29	2658.484	893.3603	1832.737
#2	1005.177	22507.88	2689.002	887.7148	1834.642
#3	1001.158	22366.43	2709.964	894.3209	1835.297

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: ICB003 Acquired: 10/18/2024 12:11:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003881	-.002825	-.000782	-.003071	-.001497	.0021976	-.000804
Stddev	.002305	.000689	.000924	.003182	.002967	.0098526	.001367
%RSD	59.39170	24.39998	118.1586	103.6195	198.1718	448.3320	170.0313
#1	-.001442	-.003472	-.001849	-.005914	.000623	-.008960	.000652
#2	-.004177	-.002904	-.000217	-.003666	-.004887	.009700	-.002060
#3	-.006024	-.002100	-.000280	.000367	-.000227	.005854	-.001004

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000054	.0000340	.0126864	.0008923	.0006751	.0002269	-.007099
Stddev	.000035	.0001404	.0050123	.0002390	.0003580	.0025397	.011429
%RSD	65.41022	412.5513	39.50869	26.78977	53.02543	1119.101	160.9888
#1	-.000070	.0001274	.0153562	.0006988	.0008300	.0008572	-.014665
#2	-.000078	-.000127	.0157987	.0008186	.0009296	-.002569	.006048
#3	-.000013	.000102	.0069044	.0011595	.0002658	.002392	-.012682

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007358	.0144751	.0002781	.0001893	-.131026	-.002111	-.000091
Stddev	.0012185	.0466295	.0005591	.0005960	.231594	.007827	.000416
%RSD	165.5968	322.1367	201.0547	314.7741	176.7542	370.7285	457.1151
#1	.0012852	.0676400	-.000124	.0004815	-.000073	.003348	.000390
#2	.0015830	-.019485	.000917	-.000496	-.398429	.001397	-.000327
#3	-.000661	-.004730	.000042	.000583	.005424	-.011079	-.000336

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1568476	.0005217	.0041601	-.000221	-.003279	-.000525	.0002616
Stddev	.0490979	.0007540	.0006031	.000268	.002698	.000798	.0021586
%RSD	31.30293	144.5213	14.49734	121.0865	82.28707	151.9573	825.0690
#1	.2084783	.0008128	.0034918	-.000157	-.000170	-.001445	.0003081
#2	.1513127	-.000334	.0043245	.000009	-.005014	-.000113	-.001920
#3	.1107517	.001087	.0046639	-.000516	-.004653	-.000018	.002397

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: ICB003 Acquired: 10/18/2024 12:11:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB003 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001330	.0079579	-.000015
Stddev	.001414	.0017382	.000163
%RSD	106.3103	21.84285	1102.094
#1	-.000597	.0071111	-.000026
#2	-.002960	.0099573	.000154
#3	-.000433	.0068054	-.000172

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	998.4734	22183.77	2632.240	881.7613	1856.349
Stddev	1.6042	76.58	10.475	1.9773	7.302
%RSD	.1606662	.3451856	.3979398	.2242471	.3933314
#1	997.3294	22183.20	2632.446	881.9791	1849.051
#2	1000.307	22260.63	2621.664	883.6207	1863.654
#3	997.784	22107.49	2642.611	879.6841	1856.342

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: ICSA003 Acquired: 10/18/2024 12:15:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019043	-.000195	-.002116	-.008494	.0043448	237.7744
Stddev	.0114345	.005313	.001154	.002684	.0034316	.2945
%RSD	600.4655	2726.721	54.55358	31.59667	78.98083	.1238428
#1	-.008312	.005926	-.000788	-.009707	.0066619	238.1125
#2	-.000231	-.003608	-.002880	-.005418	.0059701	237.5739
#3	.014256	-.002902	-.002678	-.010358	.0004026	237.6368

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048372	.0007073	-.000635	244.3034	.0506067	.0011609
Stddev	.0002251	.0000662	.000107	1.1328	.0001231	.0007523
%RSD	4.652978	9.360043	16.83239	.4636994	.2431616	64.80843
#1	.0049443	.0006335	-.000698	245.4743	.0504898	.0012873
#2	.0045786	.0007614	-.000696	244.2231	.0507351	.0018419
#3	.0049888	.0007271	-.000512	243.2129	.0505951	.0003533

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001241	102.1554	.0117101	243.8718	.0048143	.0030948
Stddev	.001302	.3948	.0001912	.8396	.0002918	.0004387
%RSD	104.8812	.3864918	1.632820	.3442606	6.061911	14.17599
#1	-.002741	102.5271	.0116129	244.7298	.0046233	.0033104
#2	-.000592	102.1983	.0115871	243.8336	.0051503	.0033840
#3	-.000392	101.7409	.0119304	243.0520	.0046694	.0025900

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.027764	.0050365	.0110903	.1524361	.0017931	F .0967829
Stddev	.294958	.0101393	.0001104	.1568011	.0022206	.0008263
%RSD	1062.393	201.3170	.9957310	102.8635	123.8377	.8537408
#1	-.336141	.0106976	.0111678	.1272126	.0000245	.0977167
#2	.251636	-.006669	.0109638	.0097759	.0010697	.0961465
#3	.001214	.011081	.0111391	.3203200	.0042852	.0964855

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: ICSA003 Acquired: 10/18/2024 12:15:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA003 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000201	.0084562	-.000705	-.004733	-.002954	.0089283
Stddev	.000046	.0071567	.000292	.002763	.001021	.0007486
%RSD	22.92570	84.63229	41.46127	58.37656	34.54541	8.384491
#1	-.000175	.0018694	-.000764	-.007776	-.003389	.0097649
#2	-.000255	.0074278	-.000387	-.002380	-.003686	.0083217
#3	-.000174	.0160715	-.000962	-.004045	-.001788	.0086983

Elem	Sr4077
Units	ppm
Avg	F .1008380
Stddev	.0004013
%RSD	.3979703
#1	.1012627
#2	.1004651
#3	.1007862

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	938.0840	21135.97	2603.263	833.5161	1569.469
Stddev	3.1641	70.41	17.302	1.3598	1.335
%RSD	.3372941	.3331449	.6646170	.1631365	.0850401
#1	941.2478	21081.35	2583.502	832.8764	1570.874
#2	938.0844	21111.12	2615.688	832.5942	1569.316
#3	934.9196	21215.44	2610.599	835.0777	1568.219

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: ICSAB003 Acquired: 10/18/2024 13:03:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1013888	.1024811	.0494670	.0281359	.5399149	243.1557
Stddev	.0077340	.0068613	.0075631	.0036261	.0053803	.3192
%RSD	7.628047	6.695146	15.28922	12.88778	.9965038	.1312558
#1	.0931799	.1103410	.0507124	.0241599	.5457743	243.0133
#2	.1085388	.0976889	.0413586	.0289873	.5387735	242.9326
#3	.1024476	.0994134	.0563302	.0312606	.5351968	243.5213

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5176657	.5383620	.9803445	252.8262	.5894556	.5109168
Stddev	.0021260	.0009161	.0016915	.3182	.0005261	.0002787
%RSD	.4106822	.1701647	.1725427	.1258674	.0892515	.0545454
#1	.5172383	.5392206	.9812985	252.9440	.5899896	.5105950
#2	.5157860	.5384679	.9783915	252.4659	.5889377	.5110742
#3	.5199729	.5373976	.9813435	253.0687	.5894396	.5110811

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4778201	105.5710	.5384360	250.4406	1.022158	.2136281
Stddev	.0033722	.1430	.0017013	.3531	.002564	.0012347
%RSD	.7057455	.1354567	.3159640	.1409990	.2508858	.5779619
#1	.4739362	105.5632	.5369807	250.1686	1.023788	.2145902
#2	.4800029	105.7178	.5403064	250.3136	1.019202	.2122359
#3	.4795213	105.4321	.5380209	250.8397	1.023483	.2140583

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2517154	.5244063	.8736088	-.088258	.0057277	F .0977084
Stddev	.3943085	.0053922	.0040094	.127887	.0021541	.0011537
%RSD	156.6486	1.028244	.4589490	144.9015	37.60800	1.180775
#1	.2309733	.5281833	.8702907	-.234830	.0080666	.0982758
#2	-.131813	.5268046	.8724717	-.030541	.0052911	.0963809
#3	.655986	.5182311	.8780639	.000598	.0038253	.0984685

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: ICSAB003 Acquired: 10/18/2024 13:03:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB003 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001584	.0003230	-.000155	F -.007668	-.004136	.0030378
Stddev	.000671	.0038962	.000715	.003752	.000604	.0008739
%RSD	42.32831	1206.333	460.4784	48.92440	14.60555	28.76864
#1	-.000812	-.003732	-.000980	-.006538	-.004519	.0023418
#2	-.001915	.004038	.000220	-.004612	-.003440	.0040186
#3	-.002025	.000663	.000294	-.011855	-.004450	.0027530

Elem	Sr4077
Units	ppm
Avg	F .1023127
Stddev	.0001182
%RSD	.1155714
#1	.1021937
#2	.1024302
#3	.1023141

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	924.3705	21083.13	2636.357	826.9954	1557.197
Stddev	2.1086	66.60	2.997	3.7510	4.003
%RSD	.2281151	.3158764	.1136924	.4535755	.2570910
#1	922.7714	21034.26	2633.451	828.9368	1557.404
#2	926.7601	21158.98	2639.438	829.3777	1561.093
#3	923.5798	21056.15	2636.182	822.6715	1553.094

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCV012 Acquired: 10/18/2024 13:07:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV012 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.874562	4.719749	23.87746	4.609952	4.585793	395.6334	9.867412
Stddev	.020959	.003390	.03486	.016841	.014980	.4178	.004680
%RSD	.4299712	.0718304	.1459789	.3653116	.3266622	.1055917	.0474252
#1	4.897851	4.718037	23.86810	4.605675	4.602524	395.3569	9.872216
#2	4.868617	4.723654	23.91604	4.595662	4.573624	396.1139	9.862868
#3	4.857217	4.717557	23.84824	4.628519	4.581233	395.4293	9.867154

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4936184	2.413196	392.8322	14.85789	2.440336	14.49945	397.3605
Stddev	.0013906	.001075	1.3355	.03362	.000590	.01503	1.2573
%RSD	.2817181	.0445371	.3399668	.2263099	.0241606	.1036798	.3164230
#1	.4932211	2.414244	392.2901	14.84265	2.440123	14.51400	396.4938
#2	.4951645	2.413246	394.3536	14.83459	2.441003	14.48398	398.8026
#3	.4924698	2.412097	391.8531	14.89644	2.439883	14.50037	396.7852

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.43680	396.6357	2.424218	1.237884	393.7243	2.421578	13.67754
Stddev	.05133	1.3643	.001226	.003650	1.0413	.010666	.03971
%RSD	.3555676	.3439698	.0505874	.2948328	.2644670	.4404496	.2903532
#1	14.41090	395.2126	2.425349	1.236455	393.3336	2.409437	13.64195
#2	14.49592	397.9324	2.424391	1.235165	394.9044	2.425860	13.67028
#3	14.40357	396.7621	2.422915	1.242032	392.9349	2.429438	13.72038

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	148.5704	4.825846	4.965187	4.582555	4.910438	4.797986	4.817797
Stddev	.2507	.018203	.006633	.009183	.015666	.005530	.010355
%RSD	.1687315	.3772061	.1335938	.2003804	.3190354	.1152581	.2149241
#1	148.8438	4.843884	4.968175	4.589489	4.897433	4.801225	4.818454
#2	148.3514	4.826172	4.957585	4.572141	4.906050	4.801133	4.807129
#3	148.5159	4.807481	4.969800	4.586036	4.927830	4.791601	4.827807

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCV012 Acquired: 10/18/2024 13:07:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV012 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.830933	4.842506	4.895404
Stddev	.005207	.014445	.008496
%RSD	.1077809	.2983011	.1735533
#1	4.836685	4.830872	4.903005
#2	4.829571	4.858675	4.886232
#3	4.826542	4.837972	4.896975

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	801.9407	20268.38	2560.763	671.6243	1416.181
Stddev	1.2911	20.67	3.813	1.0946	2.325
%RSD	.1610022	.1019912	.1489063	.1629823	.1641739
#1	802.5417	20273.21	2559.128	672.7318	1418.843
#2	802.8218	20286.21	2558.041	671.5979	1415.154
#3	800.4587	20245.72	2565.121	670.5430	1414.546

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCB012 Acquired: 10/18/2024 13:22:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB012 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005001	-.002092	-.000801	-.004125	.0024230	.0560249	-.001015
Stddev	.0079543	.000629	.001871	.001935	.0026193	.0017452	.000514
%RSD	1590.419	30.09017	233.4234	46.90443	108.1028	3.115069	50.58833
#1	-.008552	-.001476	-.002733	-.001974	.0024801	.0579482	-.001579
#2	.006373	-.002065	.001002	-.005723	-.000224	.0545421	-.000574
#3	.003679	-.002735	-.000673	-.004679	.005013	.0555845	-.000894

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000081	.0001028	.0327170	.0004585	.0001495	.0021093	-.009348
Stddev	.000027	.0001361	.0121499	.0002512	.0000160	.0038452	.003435
%RSD	32.94940	132.4026	37.13642	54.78766	10.69920	182.2954	36.74572
#1	-.000096	-.000052	.0200826	.0001699	.0001542	.0021858	-.009808
#2	-.000050	.000155	.0443162	.0006277	.0001627	.0059158	-.012530
#3	-.000096	.000205	.0337522	.0005778	.0001317	-.001774	-.005706

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005004	-.034797	.0003079	-.001047	.1022596	-.002695	.0045519
Stddev	.0002447	.072392	.0004712	.000244	.2701325	.003067	.0003390
%RSD	48.88756	208.0445	153.0613	23.27108	264.1635	113.7909	7.447434
#1	.0003381	-.008350	-.000137	-.001208	-.176554	-.005875	.0043886
#2	.0007818	-.116694	.000259	-.000766	.120553	.000246	.0049416
#3	.0003814	.020654	.000802	-.001165	.362781	-.002458	.0043254

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.093635	.0010829	.0020629	.0001065	.0002227	.0009199	-.000011
Stddev	.195582	.0011190	.0002323	.0003874	.0008520	.0004723	.001198
%RSD	208.8780	103.3336	11.25937	363.7516	382.5836	51.34536	10618.91
#1	-.308370	.0002829	.0021464	-.000104	-.000123	.0011134	-.001046
#2	.074304	.0006042	.0018004	-.000130	-.000402	.0003815	.001302
#3	-.046838	.0023616	.0022418	.000554	.001193	.0012647	-.000290

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCB012 Acquired: 10/18/2024 13:22:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB012 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000950	.0060186	-.000049
Stddev	.002683	.0007863	.000038
%RSD	282.4590	13.06507	77.25199
#1	.001050	.0063896	-.000046
#2	.000100	.0065508	-.000012
#3	-.003999	.0051154	-.000087

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	989.2065	22180.66	2658.206	879.3335	1834.904
Stddev	1.0379	46.55	15.339	2.7671	5.414
%RSD	.1049236	.2098795	.5770381	.3146864	.2950656
#1	988.8743	22138.11	2652.593	876.9980	1830.500
#2	988.3754	22173.51	2646.464	878.6127	1833.263
#3	990.3699	22230.38	2675.561	882.3897	1840.949

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: PB164193BL Acquired: 10/18/2024 13:27:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS193 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033961	-.002122	-.001395	-.008242	-.000281	-.007595	-.001385
Stddev	.0136643	.003499	.003182	.000479	.002037	.007473	.000597
%RSD	402.3583	164.8875	228.1877	5.814658	724.0982	98.39671	43.07226
#1	.0191737	-.006144	-.001922	-.008209	-.000282	-.004115	-.002058
#2	-.004373	-.000441	-.004280	-.008737	.001756	-.016173	-.000922
#3	-.004612	.000219	.002019	-.007780	-.002318	-.002497	-.001175

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000165	-.000062	.0148530	.0007389	.0004597	.0027069	-.005005
Stddev	.000047	.000018	.0030904	.0002889	.0002144	.0054341	.010712
%RSD	28.23077	29.07727	20.80671	39.10362	46.64022	200.7471	214.0504
#1	-.000120	-.000082	.0113082	.0008812	.0002208	.0087298	-.017328
#2	-.000163	-.000054	.0169812	.0009290	.0006353	-.001828	.000233
#3	-.000213	-.000049	.0162695	.0004064	.0005230	.001219	.002081

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005451	.0375090	.0005663	-.000468	.0584636	.0008169	-.000128
Stddev	.0001997	.0264324	.0001303	.000354	.2309134	.0092190	.000259
%RSD	36.62925	70.46941	23.00420	75.59026	394.9694	1128.493	202.6539
#1	.0003991	.0348800	.0006322	-.000866	.2231199	.0019311	.000087
#2	.0007726	.0124894	.0004163	-.000191	-.205488	.0094281	-.000416
#3	.0004637	.0651576	.0006505	-.000346	.157759	-.008909	-.000055

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1082393	.0009062	.0012752	-.000123	.0017969	-.000196	-.001159
Stddev	.0572297	.0017735	.0007484	.000062	.0055785	.000347	.001666
%RSD	52.87335	195.7046	58.68461	50.16569	310.4578	176.3685	143.8097
#1	.1679449	-.000418	.0006490	-.000170	-.003753	-.000372	.000586
#2	.0538574	.000215	.0010727	-.000146	.007404	.000203	-.002734
#3	.1029156	.002921	.0021040	-.000053	.001740	-.000421	-.001328

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: PB164193BL Acquired: 10/18/2024 13:27:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS193 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001015	.0046809	-.000078
Stddev	.000505	.0002912	.000106
%RSD	49.74365	6.221929	136.2904
#1	-.001512	.0047792	-.000146
#2	-.000503	.0043532	-.000131
#3	-.001031	.0049102	.000044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	989.6122	22034.00	2635.387	874.7839	1835.713
Stddev	.8199	26.82	2.852	1.8489	2.234
%RSD	.0828505	.1217392	.1082164	.2113497	.1217175
#1	990.1280	22062.91	2633.393	876.7482	1833.327
#2	990.0418	22029.18	2638.654	873.0777	1836.054
#3	988.6668	22009.91	2634.114	874.5257	1837.757

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: PB164193BS Acquired: 10/18/2024 13:31:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS193 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195349	.0456669	.0207572	.0551036	.1046208	.3707355
Stddev	.0014179	.0016993	.0005760	.0026192	.0017061	.0104406
%RSD	7.258176	3.721155	2.775132	4.753246	1.630776	2.816193
#1	.0179850	.0453011	.0211615	.0550405	.1046076	.3594877
#2	.0207668	.0475193	.0210126	.0525166	.1063336	.3801173
#3	.0198529	.0441802	.0200977	.0577539	.1029214	.3726014

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4032878	.0103331	.0096548	10.42244	.0212740	.0963790
Stddev	.0018410	.0001432	.0000439	.01818	.0006089	.0008184
%RSD	.4565028	1.385926	.4547656	.1744665	2.862079	.8491982
#1	.4053585	.0103534	.0096350	10.44198	.0208704	.0954340
#2	.4026689	.0104650	.0096242	10.40603	.0209773	.0968494
#3	.4018359	.0101808	.0097051	10.41930	.0219744	.0968538

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0539377	.2085776	.0315387	10.19691	.0809641	.0211415
Stddev	.0013920	.0208095	.0003611	.11881	.0003041	.0002241
%RSD	2.580766	9.976839	1.144964	1.165152	.3755683	1.059921
#1	.0523853	.1853723	.0312159	10.32567	.0807478	.0212852
#2	.0550747	.2147796	.0314716	10.17354	.0808327	.0208833
#3	.0543530	.2255809	.0319287	10.09152	.0813118	.0212559

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.14096	.1113399	.1027132	9.776756	.0174165	F .0012737
Stddev	.24654	.0012877	.0009166	.046371	.0036241	.0010582
%RSD	2.431107	1.156552	.8923445	.4743020	20.80822	83.07855
#1	10.07679	.1110461	.1037711	9.767429	.0132515	.0018107
#2	10.41324	.1127492	.1022133	9.735756	.0198503	.0019558
#3	9.93286	.1102245	.1021554	9.827081	.0191477	.0000547

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: PB164193BS Acquired: 10/18/2024 13:31:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS193 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0177325	.1604462	F .4548208	.0117578	.1956440	.0344758
Stddev	.0006452	.0043139	.0031925	.0013898	.0014816	.0005611
%RSD	3.638333	2.688672	.7019169	11.82033	.7572971	1.627620
#1	.0177367	.1600505	.4583738	.0108957	.1939341	.0351237
#2	.0170852	.1563439	.4538951	.0110165	.1964523	.0341468
#3	.0183755	.1649443	.4521934	.0133611	.1965457	.0341569

Elem	Sr4077
Units	ppm
Avg	.2034352
Stddev	.0001532
%RSD	.0752832
#1	.2036119
#2	.2033400
#3	.2033537

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	990.9558	21998.47	2632.502	870.8758	1812.062
Stddev	2.3073	29.43	15.894	1.3904	1.152
%RSD	.2328396	.1338000	.6037529	.1596527	.0635932
#1	990.9431	22021.75	2617.557	871.0306	1811.363
#2	993.2695	22008.27	2630.750	869.4145	1813.392
#3	988.6549	21965.39	2649.199	872.1823	1811.431

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-07 Acquired: 10/18/2024 13:36:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5422991	-.026280	5.157906	-.038772	.0228126	110.8723
Stddev	.0151067	.004287	.008552	.004147	.0025998	.3058
%RSD	2.785680	16.31210	.1658072	10.69481	11.39632	.2757907
#1	.5546481	-.030642	5.148121	-.034303	.0218026	110.7745
#2	.5254551	-.026126	5.163950	-.039516	.0208693	111.2151
#3	.5467942	-.022073	5.161647	-.042495	.0257658	110.6275

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.020023	.0064491	.1351495	89.26160	.3396868	.1062485
Stddev	.002207	.0002364	.0001815	.33252	.0012049	.0004682
%RSD	.1092782	3.665903	.1342669	.3725272	.3547123	.4407075
#1	2.020168	.0067200	.1349629	89.04349	.3410721	.1059679
#2	2.022155	.0062845	.1351603	89.64432	.3388815	.1059884
#3	2.017747	.0063429	.1353253	89.09700	.3391070	.1067890

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.439742	227.8428	5.569082	53.90626	.2722023	-.006177
Stddev	.003012	.7172	.015974	.53056	.0009619	.000239
%RSD	.1234621	.3147980	.2868407	.9842269	.3533738	3.876392
#1	2.438753	227.1072	5.553432	53.57014	.2714276	-.006123
#2	2.437349	228.5402	5.585363	54.51790	.2732790	-.005969
#3	2.443124	227.8810	5.568450	53.63075	.2719003	-.006438

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.977359	.3629708	2.878294	20.31903	F 15.65400	.2442862
Stddev	.146006	.0123839	.011887	.08131	.04576	.0019236
%RSD	7.383914	3.411830	.4129717	.4001834	.2923266	.7874180
#1	1.853026	.3486883	2.864759	20.24782	15.65072	.2421748
#2	2.138135	.3695038	2.887032	20.40763	15.70132	.2459390
#3	1.940916	.3707203	2.883093	20.30163	15.60997	.2447447

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-07 Acquired: 10/18/2024 13:36:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ05 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066181	2.547540	7.724150	.0269009	7.450630	.1500037
Stddev	.0005055	.011883	.034389	.0022686	.034887	.0003590
%RSD	7.638184	.4664663	.4452109	8.433173	.4682368	.2393089
#1	.0071801	2.551920	7.711421	.0280862	7.441073	.1502308
#2	.0062004	2.534088	7.763088	.0242851	7.489299	.1495899
#3	.0064739	2.556611	7.697940	.0283313	7.421518	.1501905

Elem	Sr4077
Units	ppm
Avg	.4203043
Stddev	.0011541
%RSD	.2745766
#1	.4200492
#2	.4215645
#3	.4192991

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1029.181	23520.10	2860.936	910.8862	1648.747
Stddev	.993	20.06	10.630	2.5453	3.205
%RSD	.0964827	.0853064	.3715663	.2794290	.1944115
#1	1028.141	23509.71	2866.095	913.3443	1648.910
#2	1029.283	23507.36	2848.711	911.0524	1645.464
#3	1030.119	23543.23	2868.003	908.2619	1651.869

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-09 Acquired: 10/18/2024 13:40:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ05S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5646136	.0550725	4.712393	.1121847	.1274615	105.9340
Stddev	.0108159	.0038451	.012720	.0116217	.0007624	.1134
%RSD	1.915623	6.981811	.2699369	10.35943	.5981545	.1070367
#1	.5623106	.0507614	4.697731	.1009798	.1283309	105.8274
#2	.5763955	.0563084	4.720487	.1113918	.1269071	106.0531
#3	.5551347	.0581476	4.718961	.1241826	.1271463	105.9213

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.552037	.0974644	.2136009	83.33944	.6070788	1.061697
Stddev	.012486	.0004137	.0005173	.15802	.0018570	.002712
%RSD	.2248936	.4245076	.2421857	.1896144	.3058961	.2554206
#1	5.559425	.0978320	.2132032	83.16026	.6051466	1.059098
#2	5.559065	.0975448	.2134138	83.45889	.6072395	1.061484
#3	5.537620	.0970163	.2141858	83.39918	.6088502	1.064510

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.628372	214.0370	6.077580	49.96461	1.169110	.0843073
Stddev	.006567	.3932	.015969	.17849	.001291	.0005482
%RSD	.2498384	.1837122	.2627596	.3572365	.1104057	.6502738
#1	2.623367	213.7096	6.059141	49.75854	1.168552	.0836762
#2	2.635808	214.4731	6.086642	50.06436	1.168192	.0845804
#3	2.625943	213.9283	6.086958	50.07092	1.170586	.0846654

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.103359	1.294378	3.350728	18.85369	F 14.12522	.2288890
Stddev	.216998	.010438	.003934	.05375	.04670	.0026989
%RSD	10.31675	.8064377	.1173984	.2851068	.3306462	1.179143
#1	1.903108	1.292698	3.348250	18.84625	14.08039	.2274722
#2	2.073051	1.284882	3.348671	18.80404	14.12168	.2320013
#3	2.333918	1.305555	3.355264	18.91077	14.17359	.2271935

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-09 Acquired: 10/18/2024 13:40:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ05S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034296	2.260401	8.259611	.0266806	6.832872	.1381531
Stddev	.0006169	.013622	.027228	.0020352	.002572	.0015263
%RSD	17.98806	.6026307	.3296529	7.627922	.0376451	1.104760
#1	.0029475	2.244754	8.290723	.0265433	6.829940	.1364928
#2	.0032166	2.269616	8.247984	.0247175	6.834751	.1384715
#3	.0041249	2.266833	8.240127	.0287809	6.833926	.1394951

Elem	Sr4077
Units	ppm
Avg	.3900088
Stddev	.0002274
%RSD	.0583033
#1	.3902486
#2	.3897963
#3	.3899814

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1019.071	23370.70	2849.275	906.0038	1660.387
Stddev	3.210	59.79	7.777	2.2816	2.619
%RSD	.3149462	.2558369	.2729366	.2518339	.1577058
#1	1018.332	23434.92	2851.186	908.6327	1662.401
#2	1022.586	23316.64	2840.721	904.5395	1661.334
#3	1016.296	23360.54	2855.918	904.8392	1657.427

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-08 Acquired: 10/18/2024 13:45:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ05D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5071595	-.028532	4.843790	-.027506	.0197141	104.5376
Stddev	.0065654	.000902	.013102	.006525	.0012337	.2865
%RSD	1.294534	3.159779	.2704949	23.72284	6.258020	.2741068
#1	.5117178	-.027850	4.845556	-.022721	.0189688	104.7437
#2	.5101263	-.029554	4.855919	-.024859	.0190353	104.2104
#3	.4996344	-.028192	4.829894	-.034939	.0211382	104.6588

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.910673	.0062107	.1268312	84.66788	.2630208	.0996677
Stddev	.001928	.0003187	.0002181	.47916	.0002315	.0003233
%RSD	.1009286	5.132090	.1719431	.5659325	.0880131	.3243769
#1	1.912265	.0064652	.1266220	84.71766	.2632881	.0997724
#2	1.911227	.0063138	.1270572	84.16576	.2628878	.0999256
#3	1.908529	.0058532	.1268142	85.12020	.2628865	.0993050

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.296734	215.8404	5.261793	51.13415	.2256136	-.006621
Stddev	.002615	.7644	.029955	.07559	.0009297	.000147
%RSD	.1138666	.3541505	.5693021	.1478221	.4120909	2.222116
#1	2.294836	215.8668	5.278465	51.10062	.2259395	-.006744
#2	2.295649	215.0632	5.227211	51.08113	.2263365	-.006659
#3	2.299717	216.5913	5.279704	51.22071	.2245648	-.006458

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.934317	.3442987	2.705671	19.21792	F 14.67594	.2285391
Stddev	.163577	.0090633	.007983	.09393	.03724	.0008302
%RSD	8.456581	2.632405	.2950425	.4887874	.2537819	.3632619
#1	1.745459	.3545649	2.706617	19.21803	14.65171	.2282718
#2	2.026102	.3409257	2.713139	19.12392	14.71882	.2278755
#3	2.031389	.3374056	2.697258	19.31179	14.65728	.2294701

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-08 Acquired: 10/18/2024 13:45:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ05D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042671	2.375963	7.703891	.0296528	7.117397	.1399956
Stddev	.0005139	.005823	.014610	.0030349	.015720	.0009910
%RSD	12.04295	.2450973	.1896482	10.23461	.2208736	.7078941
#1	.0036739	2.382543	7.709907	.0307665	7.121957	.1410294
#2	.0045750	2.371473	7.687233	.0262185	7.099901	.1399035
#3	.0045526	2.373872	7.714532	.0319735	7.130333	.1390538

Elem	Sr4077
Units	ppm
Avg	.3987682
Stddev	.0003747
%RSD	.0939706
#1	.3991897
#2	.3986420
#3	.3984728

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1036.743	23601.16	2887.162	916.4423	1668.031
Stddev	1.718	76.92	7.414	1.2542	3.802
%RSD	.1656800	.3258959	.2568039	.1368565	.2279097
#1	1035.769	23685.10	2892.054	917.4731	1667.153
#2	1035.733	23584.36	2890.801	915.0459	1664.745
#3	1038.726	23534.05	2878.631	916.8079	1672.194

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-01 Acquired: 10/18/2024 13:49:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHHZ8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2443334	-.025282	4.538038	-.026145	.0144528	80.41884
Stddev	.0025508	.003187	.012751	.009880	.0041793	.25157
%RSD	1.043988	12.60590	.2809802	37.79149	28.91694	.3128186
#1	.2423425	-.028944	4.540096	-.017245	.0097494	80.69724
#2	.2434490	-.023131	4.524383	-.024412	.0177401	80.35144
#3	.2472087	-.023771	4.549635	-.036777	.0158688	80.20783

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.629492	.0049002	.0872652	62.52443	.1917018	.0752602
Stddev	.002985	.0000908	.0003103	.01087	.0008662	.0009585
%RSD	.1832067	1.852798	.3555612	.0173905	.4518322	1.273509
#1	1.632755	.0048572	.0873166	62.51941	.1926640	.0758730
#2	1.626898	.0048389	.0869324	62.53691	.1909843	.0741557
#3	1.628824	.0050045	.0875466	62.51698	.1914570	.0757520

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.233475	172.1685	3.936725	38.50328	.1700898	-.005062
Stddev	.008355	.2652	.005839	.13487	.0008908	.000370
%RSD	.6773725	.1540449	.1483129	.3502729	.5237058	7.306613
#1	1.242796	172.4345	3.933925	38.65881	.1691527	-.005486
#2	1.230972	172.1670	3.943436	38.41866	.1701913	-.004887
#3	1.226658	171.9040	3.932814	38.43237	.1709256	-.004811

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.485118	.2862407	2.219001	16.09121	F 15.40303	.1856897
Stddev	.222797	.0056629	.011028	.09852	.00773	.0030041
%RSD	15.00199	1.978359	.4969987	.6122507	.0501931	1.617792
#1	1.712128	.2926270	2.207106	16.18930	15.39807	.1830033
#2	1.476440	.2842639	2.228887	16.09206	15.41194	.1851324
#3	1.266787	.2818311	2.221008	15.99227	15.39909	.1889334

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-01 Acquired: 10/18/2024 13:49:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHHZ8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027215	1.940279	8.751913	.0350551	6.010065	.1159617
Stddev	.0006101	.008350	.021100	.0010974	.018290	.0013778
%RSD	22.41881	.4303689	.2410932	3.130430	.3043206	1.188139
#1	.0020283	1.930718	8.776141	.0363096	6.031093	.1175335
#2	.0031768	1.946137	8.737571	.0345828	5.997856	.1153889
#3	.0029595	1.943983	8.742026	.0342730	6.001245	.1149628

Elem	Sr4077
Units	ppm
Avg	.3770404
Stddev	.0015994
%RSD	.4242048
#1	.3788813
#2	.3762491
#3	.3759909

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1030.197	23415.61	2833.776	908.2564	1688.087
Stddev	2.493	15.72	6.635	4.0399	2.267
%RSD	.2420210	.0671525	.2341412	.4447945	.1342880
#1	1033.051	23416.55	2826.115	912.8916	1690.199
#2	1029.102	23399.44	2837.530	905.4842	1688.372
#3	1028.439	23430.85	2837.683	906.3935	1685.692

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-02 Acquired: 10/18/2024 13:53:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHHZ9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1052246	-.030517	1.040788	-.027265	.0093817	85.52685
Stddev	.0079742	.001571	.007064	.005941	.0016894	.12338
%RSD	7.578307	5.149270	.6786755	21.79189	18.00686	.1442602
#1	.1138585	-.032133	1.037713	-.033717	.0113173	85.59332
#2	.0981364	-.030425	1.035784	-.022019	.0082038	85.38448
#3	.1036788	-.028994	1.048868	-.026059	.0086241	85.60273

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.085911	.0053116	.0330873	31.22891	.2154279	.0789659
Stddev	.003318	.0000721	.0001755	.02546	.0014619	.0002182
%RSD	.3055661	1.358000	.5304281	.0815342	.6786212	.2762876
#1	1.083693	.0053283	.0332236	31.25784	.2139200	.0787425
#2	1.084315	.0053740	.0328893	31.20990	.2168391	.0791785
#3	1.089726	.0052326	.0331490	31.21899	.2155246	.0789768

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4146520	183.1114	3.193021	47.83449	.1991581	-.014615
Stddev	.0039752	.1078	.002767	.09096	.0013571	.000565
%RSD	.9586915	.0588804	.0866451	.1901551	.6814383	3.866859
#1	.4102782	183.0594	3.195829	47.84900	.1980420	-.014188
#2	.4156324	183.0395	3.190297	47.73715	.2006688	-.014401
#3	.4180452	183.2354	3.192938	47.91733	.1987635	-.015256

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.507660	.3213382	.8236717	22.41557	F 10.84262	.1844726
Stddev	.131110	.0129396	.0029531	.17289	.01535	.0006713
%RSD	8.696256	4.026797	.3585244	.7713115	.1415607	.3638894
#1	1.530887	.3355059	.8205111	22.52756	10.84661	.1838554
#2	1.625604	.3101444	.8263605	22.21645	10.82568	.1851873
#3	1.366489	.3183645	.8241435	22.50271	10.85559	.1843750

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-02 Acquired: 10/18/2024 13:53:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHHZ9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009699	.5237623	7.043449	.0118155	7.947669	.1414375
Stddev	.0001093	.0060351	.020461	.0016733	.017353	.0012676
%RSD	11.26781	1.152250	.2905031	14.16142	.2183370	.8962350
#1	.0010365	.5171464	7.065029	.0106403	7.963606	.1405911
#2	.0010293	.5251742	7.040989	.0110751	7.929182	.1428949
#3	.0008437	.5289662	7.024329	.0137313	7.950219	.1408264

Elem	Sr4077
Units	ppm
Avg	.3168138
Stddev	.0006293
%RSD	.1986194
#1	.3173120
#2	.3170228
#3	.3161067

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1048.344	23721.95	2873.485	921.3785	1711.035
Stddev	.375	38.99	7.948	2.3437	1.635
%RSD	.0357951	.1643737	.2766052	.2543714	.0955387
#1	1048.505	23713.48	2865.945	921.0264	1709.366
#2	1047.915	23687.89	2872.724	919.2308	1711.105
#3	1048.612	23764.49	2881.787	923.8784	1712.634

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-03 Acquired: 10/18/2024 14:05:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2849173	-.026097	5.580359	-.027431	.0182221	80.09663
Stddev	.0072540	.002283	.011348	.001524	.0003382	.13219
%RSD	2.546012	8.747021	.2033512	5.556921	1.855730	.1650339
#1	.2770854	-.024562	5.574138	-.029010	.0182282	79.95839
#2	.2914055	-.025008	5.573482	-.025968	.0185572	80.22179
#3	.2862611	-.028720	5.593457	-.027314	.0178810	80.10970

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.520181	.0046352	.1046303	61.07583	.1690701	.0707758
Stddev	.000375	.0000301	.0004047	.01236	.0004965	.0006756
%RSD	.0246825	.6496692	.3867848	.0202375	.2936806	.9545773
#1	1.519767	.0046004	.1050784	61.06504	.1695558	.0703701
#2	1.520275	.0046529	.1045211	61.08932	.1685634	.0704016
#3	1.520499	.0046523	.1042915	61.07315	.1690911	.0715557

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.378731	162.3756	3.351929	36.34108	.1566024	-.003645
Stddev	.005005	.4954	.006750	.15361	.0003996	.000492
%RSD	.3630457	.3051090	.2013857	.4226800	.2551423	13.48982
#1	1.381719	161.9955	3.346080	36.26688	.1566754	-.003360
#2	1.372953	162.9359	3.350392	36.51769	.1561713	-.004212
#3	1.381522	162.1955	3.359316	36.23865	.1569604	-.003361

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.590692	.2570673	2.553770	16.87944	F 12.64725	.1793308
Stddev	.335895	.0098361	.005207	.14344	.04959	.0024569
%RSD	21.11630	3.826262	.2038814	.8498161	.3921151	1.370029
#1	1.824733	.2466656	2.548960	16.71970	12.67741	.1777645
#2	1.205820	.2583181	2.553052	16.99725	12.59001	.1780655
#3	1.741522	.2662181	2.559299	16.92136	12.67432	.1821624

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-03 Acquired: 10/18/2024 14:05:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ01 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030079	1.932451	8.584627	.0521949	6.032312	.1111156
Stddev	.0001505	.002192	.014601	.0054599	.004868	.0004672
%RSD	5.004792	.1134104	.1700816	10.46064	.0806908	.4204944
#1	.0031559	1.930476	8.596984	.0476923	6.032826	.1106244
#2	.0028549	1.932070	8.568516	.0506245	6.036902	.1115545
#3	.0030129	1.934809	8.588382	.0582679	6.027208	.1111679

Elem	Sr4077
Units	ppm
Avg	.3628725
Stddev	.0006438
%RSD	.1774187
#1	.3627845
#2	.3635558
#3	.3622772

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1027.498	23315.82	2823.071	903.6672	1701.242
Stddev	2.100	17.81	2.265	5.1264	4.110
%RSD	.2043994	.0763982	.0802156	.5672868	.2415744
#1	1025.929	23336.37	2825.559	909.4612	1699.037
#2	1029.884	23306.32	2821.129	899.7206	1705.983
#3	1026.682	23304.77	2822.526	901.8196	1698.705

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-04 Acquired: 10/18/2024 14:09:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4101596	-.027198	7.470692	-.031487	.0242181	87.67748
Stddev	.0041574	.002169	.011723	.001850	.0031127	.38078
%RSD	1.013612	7.975577	.1569198	5.875549	12.85264	.4342989
#1	.4125993	-.027561	7.473554	-.033588	.0272877	87.90386
#2	.4053593	-.024871	7.457803	-.030099	.0243025	87.89073
#3	.4125204	-.029164	7.480719	-.030776	.0210641	87.23786

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.709509	.0049578	.1252400	68.33417	.1897480	.0789772
Stddev	.005122	.0001130	.0001653	.33026	.0009516	.0007509
%RSD	.2996305	2.279313	.1319765	.4833074	.5015193	.9507803
#1	1.707784	.0049292	.1253356	68.59197	.1887767	.0781181
#2	1.715271	.0048619	.1250491	68.44864	.1906786	.0793056
#3	1.705472	.0050824	.1253352	67.96190	.1897886	.0795080

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.778268	183.9065	3.811890	39.41271	.1723287	-.000982
Stddev	.004786	.9706	.021573	.28814	.0004751	.000577
%RSD	.2691382	.5277794	.5659330	.7310801	.2757244	58.72685
#1	1.778247	184.5542	3.824186	39.70421	.1720348	-.001444
#2	1.783064	184.3747	3.824503	39.40586	.1728769	-.001168
#3	1.773492	182.7905	3.786980	39.12806	.1720744	-.000336

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.664529	.2826972	2.906228	18.13203	F 14.48082	.2016884
Stddev	.289252	.0066980	.006214	.10358	.03810	.0019361
%RSD	17.37740	2.369337	.2138103	.5712318	.2630814	.9599313
#1	1.843313	.2792037	2.908244	18.15055	14.51775	.2016201
#2	1.819459	.2904198	2.911184	18.22511	14.44165	.2036577
#3	1.330813	.2784682	2.899256	18.02045	14.48307	.1997874

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-04 Acquired: 10/18/2024 14:09:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ02 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042766	2.406076	8.940874	.0584065	6.358229	.1183779
Stddev	.0001241	.008791	.091582	.0014520	.032630	.0009298
%RSD	2.902363	.3653470	1.024312	2.486032	.5131919	.7854874
#1	.0041333	2.403669	8.991528	.0581381	6.385860	.1176261
#2	.0043465	2.398740	8.995939	.0571074	6.366595	.1194177
#3	.0043501	2.415820	8.835154	.0599739	6.322230	.1180900

Elem	Sr4077
Units	ppm
Avg	.4025031
Stddev	.0013655
%RSD	.3392436
#1	.4026938
#2	.4037631
#3	.4010523

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1024.437	23356.81	2818.817	903.9561	1689.490
Stddev	1.186	61.07	24.981	.6442	1.985
%RSD	.1158033	.2614533	.8862309	.0712620	.1174647
#1	1023.189	23374.59	2804.224	904.4132	1688.375
#2	1024.572	23407.02	2804.566	904.2357	1688.313
#3	1025.550	23288.83	2847.662	903.2194	1691.781

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-05 Acquired: 10/18/2024 14:13:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3556455	-.034272	3.569154	-.030544	.0168811	102.3327
Stddev	.0059692	.002578	.009805	.005816	.0011870	.3223
%RSD	1.678404	7.521130	.2747279	19.04029	7.031519	.3149280
#1	.3547934	-.031307	3.578266	-.027669	.0163287	102.5844
#2	.3619950	-.035534	3.570419	-.037238	.0182436	101.9695
#3	.3501483	-.035976	3.558778	-.026727	.0160710	102.4443

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.770860	.0060425	.0858088	63.07268	.2484876	.0988537
Stddev	.003322	.0001386	.0002789	.23672	.0018998	.0004645
%RSD	.1875963	2.292980	.3250016	.3753087	.7645524	.4698526
#1	1.773627	.0061427	.0855582	63.19711	.2491506	.0991029
#2	1.767175	.0058844	.0857590	62.79970	.2499671	.0983178
#3	1.771776	.0061002	.0861093	63.22124	.2463451	.0991403

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.750988	223.0454	4.725682	49.20969	.2230523	-.009079
Stddev	.008155	1.0999	.011712	.08876	.0011502	.000967
%RSD	.4657446	.4931111	.2478288	.1803713	.5156494	10.64884
#1	1.760084	223.1982	4.726136	49.22038	.2227011	-.008635
#2	1.744330	221.8771	4.713750	49.11607	.2221187	-.008414
#3	1.748550	224.0608	4.737160	49.29263	.2243371	-.010188

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.075728	.3885282	1.791073	20.41489	F 20.42592	.2383293
Stddev	.133857	.0111275	.003170	.04476	.04664	.0010336
%RSD	6.448662	2.864020	.1769859	.2192577	.2283296	.4336954
#1	1.993800	.3786180	1.794356	20.43059	20.45700	.2390093
#2	2.003186	.3864007	1.790833	20.36440	20.37229	.2371399
#3	2.230197	.4005659	1.788030	20.44969	20.44846	.2388388

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-05 Acquired: 10/18/2024 14:13:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ03 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027740	3.320254	7.271775	.0497553	7.462459	.1491330
Stddev	.0001238	.011070	.053557	.0015021	.017801	.0004055
%RSD	4.461285	.3334194	.7364988	3.018913	.2385349	.2719188
#1	.0029146	3.317880	7.276192	.0508366	7.479148	.1487598
#2	.0026815	3.310563	7.216147	.0480402	7.443724	.1495645
#3	.0027258	3.332319	7.322986	.0503891	7.464505	.1490748

Elem	Sr4077
Units	ppm
Avg	.4870933
Stddev	.0011936
%RSD	.2450465
#1	.4880852
#2	.4857686
#3	.4874260

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1048.570	23708.08	2883.639	920.5257	1680.435
Stddev	1.036	150.75	9.699	5.2924	.779
%RSD	.0987765	.6358514	.3363427	.5749374	.0463652
#1	1049.730	23644.80	2881.814	919.5021	1679.685
#2	1047.739	23599.29	2894.121	915.8199	1681.240
#3	1048.240	23880.15	2874.982	926.2552	1680.379

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-06 Acquired: 10/18/2024 14:18:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1090452	-.028334	1.277875	-.029147	.0136474	97.48035
Stddev	.0136740	.002247	.006556	.002557	.0015859	.20221
%RSD	12.53972	7.931603	.5130293	8.774365	11.62039	.2074350
#1	.0956227	-.027914	1.282497	-.026405	.0135871	97.63706
#2	.1229574	-.026327	1.270372	-.029568	.0152625	97.55188
#3	.1085555	-.030762	1.280756	-.031468	.0120925	97.25209

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.214502	.0057519	.0347913	54.92682	.2114627	.0822752
Stddev	.001108	.0000700	.0002931	.02277	.0007619	.0008303
%RSD	.0911989	1.216334	.8424943	.0414502	.3602962	1.009182
#1	1.215560	.0058121	.0350545	54.95145	.2107353	.0831993
#2	1.214594	.0057686	.0348441	54.92248	.2122549	.0820345
#3	1.213351	.0056752	.0344754	54.90654	.2113978	.0815919

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4795875	192.4436	3.457953	50.37105	.1895573	-.014294
Stddev	.0006883	.5246	.019971	.49045	.0001982	.000659
%RSD	.1435140	.2725755	.5775487	.9736763	.1045672	4.611662
#1	.4787946	192.7719	3.454340	50.12346	.1893329	-.013761
#2	.4799381	192.7203	3.479484	50.93595	.1896305	-.014089
#3	.4800300	191.8386	3.440034	50.05376	.1897085	-.015031

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.938648	.3301796	2.193716	18.74551	F 10.91843	.1971621
Stddev	.369105	.0149886	.005929	.08334	.00515	.0013709
%RSD	19.03931	4.539520	.2702517	.4445676	.0471608	.6953151
#1	2.345998	.3405567	2.200535	18.80198	10.92431	.1987342
#2	1.843545	.3369867	2.189776	18.78477	10.91627	.1962154
#3	1.626400	.3129955	2.190839	18.64980	10.91472	.1965367

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-06 Acquired: 10/18/2024 14:18:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ04 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013651	.7191488	8.172928	.0118440	7.418723	.1291441
Stddev	.0002641	.0048730	.042078	.0025965	.012351	.0028683
%RSD	19.34501	.6776084	.5148522	21.92284	.1664783	2.220972
#1	.0013668	.7155343	8.136454	.0148105	7.424349	.1286618
#2	.0011002	.7172214	8.218965	.0099844	7.427260	.1322229
#3	.0016284	.7246907	8.163365	.0107370	7.404562	.1265475

Elem	Sr4077
Units	ppm
Avg	.2901959
Stddev	.0007853
%RSD	.2706086
#1	.2911016
#2	.2897048
#3	.2897814

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1046.063	23704.63	2872.533	924.4589	1694.268
Stddev	2.086	144.27	13.224	7.6214	3.634
%RSD	.1993995	.6086194	.4603755	.8244178	.2144980
#1	1043.659	23549.17	2870.703	915.8850	1692.264
#2	1047.394	23730.53	2860.319	927.0273	1692.078
#3	1047.137	23834.20	2886.577	930.4642	1698.464

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-07LX5 Acquired: 10/18/2024 14:30:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ05L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1122296	-.008768	1.067952	-.013827	.0052697	24.05077	.4337501
Stddev	.0062781	.002177	.004853	.007087	.0030028	.18659	.0039838
%RSD	5.594002	24.83070	.4544604	51.25751	56.98185	.7758077	.9184513
#1	.1140039	-.008528	1.070686	-.022009	.0083145	24.25435	.4382967
#2	.1174296	-.011055	1.070822	-.009890	.0051840	24.01005	.4308713
#3	.1052552	-.006721	1.062349	-.009582	.0023107	23.88790	.4320821

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014382	.0277713	19.70203	.0613768	.0209082	.5329467	50.78013
Stddev	.0000198	.0000571	.16074	.0006855	.0001288	.0080155	.50073
%RSD	1.378736	.2054572	.8158784	1.116880	.6160749	1.504002	.9860795
#1	.0014299	.0277667	19.85785	.0606035	.0210471	.5393148	51.35798
#2	.0014609	.0278305	19.71146	.0619099	.0207926	.5355795	50.50839
#3	.0014239	.0277166	19.53677	.0616171	.0208848	.5239459	50.47401

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.230093	11.76814	.0493919	-.002567	.4600258	.0737090	.6426627
Stddev	.007721	.15222	.0001292	.000458	.2068823	.0056295	.0017177
%RSD	.6276740	1.293498	.2615744	17.85222	44.97190	7.637402	.2672786
#1	1.238446	11.86752	.0494560	-.002863	.3971849	.0688665	.6445723
#2	1.228616	11.59290	.0492432	-.002798	.2918502	.0798857	.6421721
#3	1.223217	11.84401	.0494766	-.002039	.6910422	.0723747	.6412437

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.092298	3.163088	.0527758	.0007759	.5010457	1.813103	.0053201
Stddev	.051342	.007445	.0011778	.0001968	.0065584	.008981	.0012362
%RSD	1.254600	.2353857	2.231715	25.36321	1.308937	.4953615	23.23715
#1	4.106066	3.169226	.0541095	.0007965	.4996287	1.818153	.0058360
#2	4.035476	3.154805	.0523400	.0009616	.4953116	1.818423	.0062149
#3	4.135353	3.165232	.0518781	.0005697	.5081967	1.802733	.0039095

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4411-07LX5 Acquired: 10/18/2024 14:30:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MJHJ05L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.631444	.0361678	.0921049
Stddev	.004965	.0010075	.0008938
%RSD	.3043068	2.785621	.9703905
#1	1.637114	.0353421	.0931368
#2	1.629334	.0372904	.0916057
#3	1.627882	.0358709	.0915723

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1010.074	22617.81	2713.517	890.2325	1789.597
Stddev	1.782	19.08	13.078	1.9895	3.545
%RSD	.1763762	.0843414	.4819695	.2234786	.1980655
#1	1008.998	22607.45	2699.549	888.3813	1785.736
#2	1009.094	22639.82	2715.528	892.3361	1792.702
#3	1012.131	22606.15	2725.473	889.9801	1790.354

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCV013 Acquired: 10/18/2024 14:34:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.928152	4.733946	24.08154	4.667118	4.665593	398.4129	9.850148
Stddev	.019336	.007481	.02106	.017632	.002147	1.5586	.014647
%RSD	.3923658	.1580242	.0874322	.3777932	.0460202	.3912011	.1487014
#1	4.949823	4.726844	24.09997	4.681421	4.663400	399.6273	9.867061
#2	4.912660	4.741756	24.08606	4.647418	4.667691	396.6554	9.841785
#3	4.921975	4.733238	24.05860	4.672516	4.665687	398.9561	9.841598

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4995841	2.427523	395.4731	15.06102	2.456594	14.58250	399.0139
Stddev	.0033592	.001415	2.5269	.01761	.001125	.05688	1.9958
%RSD	.6724011	.0582775	.6389528	.1169060	.0457774	.3900679	.5001832
#1	.5028655	2.428715	397.6413	15.04813	2.455773	14.59175	400.1587
#2	.4961521	2.425960	392.6981	15.08108	2.457876	14.52156	396.7094
#3	.4997347	2.427893	396.0801	15.05384	2.456134	14.63418	400.1737

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.50867	399.5571	2.440112	1.257170	399.1196	2.446016	13.91476
Stddev	.09025	2.1176	.004635	.000695	2.3408	.019787	.06450
%RSD	.6220189	.5299833	.1899430	.0553116	.5864890	.8089497	.4635040
#1	14.57971	400.6684	2.444126	1.257181	401.1115	2.459175	13.90988
#2	14.40712	397.1152	2.435039	1.257860	396.5414	2.423260	13.85285
#3	14.53917	400.8877	2.441172	1.256470	399.7059	2.455611	13.98156

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	149.2243	4.897001	5.083449	4.648215	4.956289	4.884233	4.852784
Stddev	.8779	.010303	.012218	.005573	.004611	.023194	.006688
%RSD	.5883301	.2103898	.2403486	.1199018	.0930236	.4748739	.1378225
#1	149.7819	4.907304	5.091013	4.642140	4.961167	4.901774	4.859300
#2	148.2123	4.886699	5.069353	4.649413	4.955695	4.857935	4.853117
#3	149.6787	4.897001	5.089980	4.653092	4.952003	4.892989	4.845936

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCV013 Acquired: 10/18/2024 14:34:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV013 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.857406	4.914379	4.947992
Stddev	.020466	.050253	.018170
%RSD	.4213291	1.022570	.3672289
#1	4.879578	4.956752	4.954674
#2	4.839238	4.858860	4.927426
#3	4.853403	4.927525	4.961874

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	801.3330	20261.35	2541.007	663.4499	1422.099
Stddev	.9898	39.04	8.401	2.6704	1.562
%RSD	.1235132	.1926586	.3305984	.4024985	.1098027
#1	800.5868	20296.54	2534.050	665.2847	1420.323
#2	802.4558	20219.36	2550.339	664.6786	1423.256
#3	800.9565	20268.14	2538.630	660.3863	1422.718

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCB013 Acquired: 10/18/2024 14:39:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013866	-.000976	-.000361	-.006229	-.000434	.1633542	-.000683
Stddev	.0039815	.002579	.006443	.006439	.002155	.0118074	.000703
%RSD	287.1398	264.1086	1786.788	103.3703	496.4644	7.228101	102.8639
#1	.0042433	-.003476	-.003113	.001012	.001975	.1562350	-.001455
#2	-.003161	.001674	.007001	-.011311	-.002179	.1568439	-.000079
#3	.003078	-.001127	-.004970	-.008388	-.001098	.1769837	-.000515

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000098	.0001185	.0373327	.0006347	.0004126	-.001584	.0232306
Stddev	.000093	.0000771	.0158577	.0008898	.0004679	.003059	.0232007
%RSD	95.33253	65.06333	42.47670	140.1846	113.4028	193.1558	99.87134
#1	.000010	.0000362	.0553529	.0009210	.0008486	-.003987	.0156979
#2	-.000150	.0001891	.0255084	.0013461	.0004710	-.002622	.0492617
#3	-.000153	.0001302	.0311367	-.000363	-.000082	.001859	.0047323

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017755	.0266353	.0002298	-.000948	.4462647	.0085506	.0019225
Stddev	.0009019	.0731517	.0008323	.001030	.4108673	.0012362	.0002346
%RSD	50.79706	274.6421	362.1684	108.6535	92.06807	14.45718	12.20351
#1	.0010243	.0924471	.0002701	-.001085	.8680732	.0087951	.0020407
#2	.0015266	-.052127	-.000622	.000143	.0472910	.0072104	.0020745
#3	.0027758	.039585	.001041	-.001904	.4234297	.0096463	.0016523

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.116981	.0024335	.0050057	.0006555	-.001215	.0015918	.0005523
Stddev	.019859	.0025947	.0010231	.0002519	.002664	.0004241	.0005355
%RSD	16.97608	106.6233	20.43919	38.42838	219.2040	26.64427	96.95082
#1	-.139874	.0024848	.0053034	.0005755	.001761	.0014492	.0010736
#2	-.104392	.0050021	.0058471	.0004533	-.003376	.0020688	.0000036
#3	-.106677	-.000186	.0038668	.0009377	-.002031	.0012573	.0005798

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCB013 Acquired: 10/18/2024 14:39:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB013 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002093	.0099437	.0004663
Stddev	.001099	.0011010	.0002020
%RSD	52.52089	11.07278	43.32046
#1	-.001075	.0089050	.0006973
#2	-.001946	.0098282	.0003228
#3	-.003259	.0110979	.0003788

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	996.1062	22050.40	2668.060	872.0559	1861.083
Stddev	1.6165	116.85	59.522	2.9914	1.560
%RSD	.1622801	.5299441	2.230913	.3430264	.0838341
#1	996.8933	22048.26	2735.807	874.8255	1860.452
#2	994.2470	21934.63	2644.214	872.4586	1859.938
#3	997.1785	22168.31	2624.157	868.8836	1862.860

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-03DLX2 Acquired: 10/18/2024 14:59:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3655007	-.039518	.1402298	-.040733	.0067019	137.4343	1.736131
Stddev	.0066185	.004573	.0020406	.005049	.0039136	.8905	.010777
%RSD	1.810815	11.57273	1.455167	12.39482	58.39584	.6479258	.6207430
#1	.3719960	-.034480	.1382672	-.045615	.0110400	138.3395	1.747930
#2	.3657408	-.043407	.1423403	-.035533	.0056293	136.5593	1.726806
#3	.3587654	-.040668	.1400819	-.041052	.0034364	137.4041	1.733658

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067398	.0014414	46.42164	.2901804	.1811296	.3563734	286.3340
Stddev	.0001089	.0001279	.35403	.0020859	.0010000	.0020813	1.8284
%RSD	1.615101	8.871476	.7626467	.7188233	.5521059	.5840270	.6385646
#1	.0066664	.0012948	46.76827	.2906470	.1822596	.3584667	288.3122
#2	.0066882	.0015297	46.06064	.2919934	.1803588	.3563494	284.7060
#3	.0068649	.0014999	46.43601	.2879007	.1807703	.3543042	285.9838

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.464026	66.81288	.3976700	-.027428	1.328324	.6060258	.4770509
Stddev	.052733	.40197	.0022345	.000508	.098725	.0057439	.0015089
%RSD	.7064968	.6016303	.5619046	1.851449	7.432268	.9478046	.3163053
#1	7.518229	67.26581	.3960391	-.027969	1.329602	.6120573	.4787676
#2	7.412897	66.67428	.4002170	-.026961	1.228966	.6006208	.4764508
#3	7.460952	66.49855	.3967540	-.027353	1.426403	.6053991	.4759344

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.55213	7.793983	.2916646	-.001753	.8165131	7.212032	.0042232
Stddev	.06149	.005750	.0025290	.000530	.0020880	.062688	.0018688
%RSD	.3314219	.0737698	.8671069	30.21502	.2557183	.8692185	44.25055
#1	18.53064	7.795973	.2938379	-.001778	.8146879	7.279143	.0063481
#2	18.62148	7.787503	.2888886	-.002270	.8160615	7.154983	.0028350
#3	18.50428	7.798474	.2922671	-.001211	.8187899	7.201971	.0034866

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-03DLX2 Acquired: 10/18/2024 14:59:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.224265	.1271517	.2954531
Stddev	.016799	.0027539	.0016018
%RSD	.7552534	2.165845	.5421319
#1	2.240927	.1301896	.2969017
#2	2.207332	.1264464	.2937329
#3	2.224536	.1248190	.2957248

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1081.369	24410.31	3015.688	947.7436	1688.404
Stddev	2.147	119.25	26.450	3.5140	2.916
%RSD	.1985859	.4885227	.8770780	.3707719	.1727098
#1	1081.835	24457.03	2985.724	949.1462	1689.172
#2	1079.027	24274.77	3035.793	943.7450	1685.180
#3	1083.246	24499.12	3025.546	950.3397	1690.858

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-04DLX2 Acquired: 10/18/2024 15:03:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3174296	-.036330	.1079845	-.040596	.0078119	134.4517	2.150180
Stddev	.0138569	.005427	.0037646	.007258	.0043638	.5043	.005310
%RSD	4.365343	14.93819	3.486249	17.87845	55.86031	.3750801	.2469457
#1	.3107551	-.040786	.1038613	-.032315	.0070301	133.8723	2.144429
#2	.3081731	-.030286	.1088534	-.045853	.0038919	134.7916	2.151217
#3	.3333606	-.037918	.1112386	-.043620	.0125138	134.6913	2.154895

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057774	.0013153	311.9052	.2608161	.1530122	.3495105	249.8123
Stddev	.0001221	.0000873	1.6941	.0003058	.0007711	.0003691	.9977
%RSD	2.113393	6.635763	.5431375	.1172419	.5039594	.1056010	.3993814
#1	.0057757	.0012504	310.0305	.2611649	.1538849	.3491493	248.7857
#2	.0056561	.0012810	313.3261	.2606890	.1524231	.3494954	250.7783
#3	.0059003	.0014145	312.3591	.2605943	.1527284	.3498870	249.8730

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.452289	73.40328	.4012339	-.017198	1.534734	.5483707	.6693384
Stddev	.046306	.32249	.0003819	.000239	.307014	.0069850	.0039692
%RSD	.8492908	.4393404	.0951793	1.389384	20.00438	1.273775	.5930072
#1	5.399997	73.07838	.4013479	-.017457	1.398187	.5450839	.6730690
#2	5.488098	73.40815	.4008081	-.016987	1.886334	.5436353	.6651673
#3	5.468773	73.72331	.4015459	-.017149	1.319681	.5563928	.6697790

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.16368	9.102315	.2642734	-.002310	1.020829	5.423716	.0217647
Stddev	.04756	.026732	.0010586	.000725	.002523	.010224	.0020793
%RSD	.2770810	.2936831	.4005815	31.36819	.2471643	.1885146	9.553674
#1	17.20628	9.091869	.2630594	-.002924	1.018212	5.412260	.0194765
#2	17.11237	9.132693	.2647565	-.001511	1.023247	5.426969	.0222788
#3	17.17240	9.082383	.2650043	-.002495	1.021027	5.431918	.0235387

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-04DLX2 Acquired: 10/18/2024 15:03:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.569973	.1232597	.5953754
Stddev	.006630	.0008576	.0011562
%RSD	.2579648	.6957868	.1942031
#1	2.562319	.1229017	.5940403
#2	2.573882	.1242383	.5960384
#3	2.573720	.1226391	.5960475

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1009.975	23124.58	2862.247	888.5773	1585.476
Stddev	4.366	54.56	2.554	4.1834	3.345
%RSD	.4322945	.2359547	.0892143	.4708014	.2109545
#1	1005.077	23093.51	2864.593	884.0500	1581.674
#2	1013.457	23092.65	2862.621	892.3000	1586.790
#3	1011.390	23187.59	2859.528	889.3818	1587.963

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-05DLX2 Acquired: 10/18/2024 15:07:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3435705	-.037040	.1125522	-.037799	.0127281	132.1904	2.239920
Stddev	.0505463	.005630	.0126931	.011805	.0009704	.2078	.003176
%RSD	14.71205	15.19976	11.27750	31.23230	7.623958	.1571649	.1417882
#1	.3739771	-.041191	.1209984	-.043477	.0126515	132.1731	2.240848
#2	.3715122	-.039298	.1187027	-.045692	.0137345	132.4062	2.242528
#3	.2852220	-.030632	.0979556	-.024227	.0117983	131.9918	2.236383

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060089	.0004091	289.8303	.2681406	.1539628	.3657387	272.1441
Stddev	.0001756	.0017582	.4220	.0020449	.0229341	.0015721	.5980
%RSD	2.922580	429.7922	.1455872	.7626122	14.89586	.4298388	.2197283
#1	.0058160	.0012694	289.3712	.2675723	.1674366	.3640469	271.4712
#2	.0060510	.0015714	290.2011	.2704095	.1669695	.3660146	272.6144
#3	.0061595	-.001614	289.9186	.2664400	.1274821	.3671546	272.3469

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.476101	72.94049	.3779612	-.019221	1.504778	.5855052	.6688713
Stddev	.021236	.11997	.0555341	.000688	.199844	.0040719	.0021859
%RSD	.3279097	.1644740	14.69306	3.580412	13.28060	.6954442	.3267961
#1	6.465949	72.81226	.4117609	-.019701	1.456980	.5867051	.6697704
#2	6.500507	73.05000	.4082547	-.018433	1.333168	.5888422	.6704642
#3	6.461846	72.95921	.3138679	-.019531	1.724187	.5809682	.6663793

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.08969	8.278024	.2834604	-.000937	.9513801	4.709250	.0003449
Stddev	.12025	1.244309	.0009870	.000636	.1555811	.015907	.0013359
%RSD	.7474006	15.03147	.3482040	67.91030	16.35320	.3377765	387.2699
#1	15.95288	9.008635	.2840787	-.000387	1.033804	4.691844	-.000998
#2	16.17868	8.984147	.2839803	-.001634	1.048408	4.723032	.001674
#3	16.13750	6.841289	.2823221	-.000790	.771929	4.712873	.000358

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-05DLX2 Acquired: 10/18/2024 15:07:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.464763	.1266729	.5906875
Stddev	.001616	.0015476	.0007413
%RSD	.0655539	1.221732	.1254895
#1	2.466342	.1281173	.5907798
#2	2.464834	.1268619	.5913783
#3	2.463113	.1250395	.5899045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1083.367	23186.01	2870.897	893.0031	1721.634
Stddev	125.755	63.49	7.786	4.1415	227.052
%RSD	11.60780	.2738357	.2712172	.4637723	13.18815
#1	1012.054	23176.38	2878.886	891.7966	1588.419
#2	1009.479	23127.88	2863.331	889.5987	1592.684
#3	1228.569	23253.76	2870.475	897.6138	1983.799

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-06DLX2 Acquired: 10/18/2024 15:12:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3132956	-.029718	.1089896	-.032822	.0062096	91.08218	.8014105
Stddev	.1244148	.012210	.0311187	.018101	.0033528	1.48722	.0115156
%RSD	39.71163	41.08484	28.55199	55.15098	53.99408	1.632829	1.436917
#1	.3899894	-.035810	.1303011	-.035997	.0083020	91.91569	.8061376
#2	.3801512	-.037683	.1233885	-.049126	.0079843	91.96572	.8098103
#3	.1697461	-.015661	.0732791	-.013343	.0023424	89.36513	.7882836

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052127	-.001834	34.82657	.2369650	.1247012	.2827792	285.5779
Stddev	.0000925	.003406	.60199	.0060630	.0465318	.0061220	5.4158
%RSD	1.774543	185.7469	1.728528	2.558612	37.31464	2.164928	1.896444
#1	.0051836	.000128	35.17349	.2416371	.1511000	.2863745	288.8675
#2	.0051382	.000137	35.17477	.2301135	.1520300	.2862526	288.5391
#3	.0053162	-.005766	34.13146	.2391443	.0709736	.2757105	279.3271

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.841276	43.91664	.1814263	-.025283	1.468281	.6091002	.4651909
Stddev	.130425	.61910	.0653663	.001660	.043892	.0032258	.0121085
%RSD	1.906444	1.409722	36.02911	6.564593	2.989342	.5295947	2.602914
#1	6.914683	44.17636	.2181477	-.024926	1.436544	.6128225	.4758238
#2	6.918456	44.36358	.2201742	-.027092	1.449929	.6073562	.4520117
#3	6.690690	43.20998	.1059569	-.023831	1.518371	.6071218	.4677372

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.13088	4.584102	.2916513	-.000769	.8730587	5.563370	.0030183
Stddev	.22155	1.693822	.0061874	.000443	.3419624	.078028	.0002446
%RSD	1.221928	36.94993	2.121502	57.65283	39.16832	1.402523	8.103329
#1	18.21187	5.569272	.2971387	-.001279	1.065760	5.624676	.0032988
#2	18.30054	5.554772	.2928699	-.000474	1.075184	5.589897	.0028502
#3	17.88024	2.628262	.2849453	-.000554	.478232	5.475538	.0029057

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-06DLX2 Acquired: 10/18/2024 15:12:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.876351	.0875735	.1839861
Stddev	.038465	.0024384	.0030227
%RSD	1.337275	2.784395	1.642882
#1	2.897240	.0894820	.1853315
#2	2.899852	.0884120	.1861024
#3	2.831962	.0848265	.1805243

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1225.974	23262.25	2917.939	910.9426	2079.839
Stddev	331.678	358.73	41.336	17.5905	643.879
%RSD	27.05427	1.542120	1.416611	1.931022	30.95812
#1	1033.021	22948.97	2896.826	895.4926	1710.295
#2	1035.942	23653.58	2891.423	930.0869	1705.900
#3	1608.960	23184.20	2965.567	907.2484	2823.322

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-07DLX2 Acquired: 10/18/2024 15:16:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0659363	-.028234	.0821958	-.029953	.0037419	92.90463	.6833984
Stddev	.0064910	.007401	.0077466	.007188	.0022938	.27846	.0037889
%RSD	9.844404	26.21424	9.424623	23.99846	61.30136	.2997237	.5544160
#1	.0673918	-.034532	.0840884	-.032653	.0057312	92.59782	.6790316
#2	.0715761	-.030089	.0888207	-.035401	.0042617	92.97474	.6853487
#3	.0588411	-.020082	.0736782	-.021806	.0012327	93.14134	.6858147

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041979	-.000895	35.62255	.1163894	.1049683	.2942240	226.1615
Stddev	.0001328	.000909	.13766	.0007560	.0127724	.0023880	.8770
%RSD	3.162381	101.4957	.3864484	.6495364	12.16782	.8116151	.3877948
#1	.0041747	-.000169	35.61690	.1172408	.1123129	.2925836	225.4027
#2	.0043408	-.000603	35.48780	.1161304	.1123720	.2969636	225.9600
#3	.0040783	-.001914	35.76295	.1157969	.0902201	.2931247	227.1217

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.845123	46.85791	.1017611	-.018684	1.163272	.3995423	.4778293
Stddev	.014357	.07422	.0117474	.000185	.107234	.0067116	.0012661
%RSD	.2963281	.1583964	11.54413	.9882122	9.218330	1.679816	.2649769
#1	4.834377	46.80922	.1080555	-.018624	1.040652	.3958024	.4792828
#2	4.839564	46.94333	.1090199	-.018537	1.239498	.3955340	.4772382
#3	4.861429	46.82117	.0882077	-.018891	1.209666	.4072906	.4769667

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.18193	6.074183	.2281436	-.000104	.6250758	4.442153	.0048349
Stddev	.16155	.707533	.0020169	.000269	.0696338	.018986	.0033317
%RSD	.6680655	11.64819	.8840532	259.3513	11.14005	.4274066	68.91026
#1	24.04067	6.483653	.2283236	-.000027	.6704300	4.420731	.0042343
#2	24.14704	6.481701	.2260427	-.000403	.6598974	4.448828	.0084260
#3	24.35807	5.257195	.2300644	.000119	.5448999	4.456901	.0018443

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-07DLX2 Acquired: 10/18/2024 15:16:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.274664	.1005201	.2034177
Stddev	.012103	.0021069	.0007799
%RSD	.2294638	2.095966	.3834049
#1	5.261225	.0980959	.2025699
#2	5.278061	.1019094	.2035786
#3	5.284706	.1015550	.2041047

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1087.435	23297.36	2853.271	904.9635	1809.592
Stddev	102.498	51.09	13.914	2.1581	183.615
%RSD	9.425645	.2192863	.4876487	.2384747	10.14674
#1	1029.050	23238.93	2866.493	902.4780	1705.512
#2	1027.470	23333.62	2854.564	906.3621	1701.663
#3	1205.786	23319.51	2838.755	906.0503	2021.600

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-08DLX2 Acquired: 10/18/2024 15:21:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3299067	-.037705	.1161607	-.042480	.0095360	128.7959	2.057464
Stddev	.0339026	.006426	.0066636	.001845	.0031289	.2998	.005532
%RSD	10.27643	17.04397	5.736547	4.343736	32.81114	.2328093	.2688524
#1	.3395332	-.043696	.1230175	-.044383	.0079735	128.6110	2.053788
#2	.3579551	-.038500	.1157558	-.042358	.0074962	129.1419	2.063825
#3	.2922319	-.030918	.1097088	-.040699	.0131384	128.6349	2.054777

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054303	.0003905	247.9447	.2697131	.1653947	.3556531	274.1984
Stddev	.0000767	.0010696	.4397	.0005327	.0176242	.0018671	.3732
%RSD	1.411990	273.8929	.1773411	.1974933	10.65585	.5249827	.1360986
#1	.0054048	.0012159	247.8104	.2702154	.1769225	.3575143	274.0192
#2	.0055164	.0007736	248.4359	.2691545	.1741547	.3537801	274.6274
#3	.0053696	-.000818	247.5878	.2697693	.1451068	.3556649	273.9487

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.621287	74.62039	.3720939	-.019095	1.235489	.6013442	.9725433
Stddev	.013983	.24707	.0389598	.000708	.272965	.0044049	.0053914
%RSD	.2111892	.3311092	10.47043	3.709696	22.09366	.7325047	.5543635
#1	6.605154	74.68124	.3946197	-.018935	1.085307	.5981183	.9787657
#2	6.629918	74.83135	.3945551	-.018480	1.070592	.5995517	.9692618
#3	6.628791	74.34857	.3271070	-.019869	1.550567	.6063628	.9696024

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.40685	8.123095	.2832944	-.001591	.9272155	4.331103	.0075588
Stddev	.06960	.888675	.0021516	.000503	.0973592	.001852	.0015201
%RSD	.4831370	10.94010	.7594819	31.60055	10.50017	.0427568	20.10973
#1	14.36066	8.622112	.2840021	-.001855	.9807872	4.331007	.0083435
#2	14.48691	8.650105	.2850029	-.001908	.9860239	4.333001	.0085261
#3	14.37298	7.097069	.2808781	-.001012	.8148355	4.329301	.0058067

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-08DLX2 Acquired: 10/18/2024 15:21:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.535747	.1236875	.5795079
Stddev	.004374	.0011025	.0015561
%RSD	.1724751	.8913353	.2685163
#1	2.532565	.1244737	.5789174
#2	2.540734	.1241616	.5812727
#3	2.533941	.1224273	.5783334

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1054.595	22892.02	2841.185	883.2805	1679.285
Stddev	84.033	34.30	8.507	5.5327	147.591
%RSD	7.968290	.1498450	.2994064	.6263856	8.788900
#1	1004.980	22860.17	2838.843	877.8954	1592.193
#2	1007.186	22887.55	2834.095	882.9962	1595.968
#3	1151.620	22928.34	2850.618	888.9499	1849.694

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-09DLX2 Acquired: 10/18/2024 15:25:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3632321	-.042342	.1129699	-.047433	.0126097	157.5808	3.437784
Stddev	.0106738	.002713	.0057376	.003224	.0051125	.1263	.007915
%RSD	2.938551	6.406392	5.078910	6.796327	40.54395	.0801455	.2302216
#1	.3707609	-.044974	.1078731	-.044133	.0067155	157.6290	3.443861
#2	.3679186	-.039556	.1118526	-.050575	.0158419	157.6759	3.440656
#3	.3510169	-.042495	.1191840	-.047590	.0152717	157.4375	3.428834

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068880	.0005609	72.72586	.3000808	.1756644	.3295203	303.9851
Stddev	.0001893	.0001194	.31173	.0010711	.0008224	.0018565	.6841
%RSD	2.748570	21.27864	.4286389	.3569373	.4681910	.5633844	.2250526
#1	.0070718	.0006661	72.37373	.3011162	.1764977	.3273775	303.1961
#2	.0066936	.0005854	72.96657	.3001490	.1748532	.3306448	304.4120
#3	.0068986	.0004312	72.83728	.2989772	.1756423	.3305386	304.3474

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.480436	80.14484	.4661631	-.027325	1.621377	.6266866	.4674157
Stddev	.022851	.08846	.0024735	.000497	.262811	.0092505	.0020464
%RSD	.3054821	.1103723	.5306076	1.818817	16.20914	1.476093	.4378206
#1	7.455608	80.12863	.4658845	-.026820	1.924348	.6351838	.4650530
#2	7.500587	80.06560	.4638407	-.027342	1.454846	.6280431	.4685620
#3	7.485113	80.24028	.4687641	-.027813	1.484938	.6168327	.4686320

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.95066	8.688960	.3121570	-.001879	.5389690	4.600279	.0095149
Stddev	.02063	.040511	.0018612	.000261	.0064985	.004033	.0004843
%RSD	.1217355	.4662325	.5962312	13.87189	1.205726	.0876740	5.089861
#1	16.95940	8.698897	.3108829	-.002146	.5428354	4.600739	.0098307
#2	16.92709	8.644405	.3142929	-.001865	.5314664	4.596035	.0089573
#3	16.96548	8.723578	.3112952	-.001625	.5426053	4.604062	.0097568

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-09DLX2 Acquired: 10/18/2024 15:25:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9Q9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.683028	.1489150	.5169152
Stddev	.004017	.0013260	.0010130
%RSD	.1497111	.8904146	.1959723
#1	2.687402	.1494826	.5178478
#2	2.682177	.1473997	.5170603
#3	2.679505	.1498626	.5158375

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1057.290	23964.87	2945.832	924.5001	1654.847
Stddev	.741	79.48	3.812	2.6556	2.090
%RSD	.0700513	.3316420	.1293978	.2872444	.1262966
#1	1057.646	23878.54	2942.761	926.5029	1655.050
#2	1057.785	23981.09	2950.098	921.4878	1656.828
#3	1056.438	24034.99	2944.637	925.5096	1652.663

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-10DLX2 Acquired: 10/18/2024 15:29:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3684276	-.037975	.1629871	-.049880	.0091383	146.8809	2.440574
Stddev	.0058063	.001846	.0023938	.002944	.0031458	.2937	.002648
%RSD	1.575973	4.861651	1.468695	5.902211	34.42417	.1999660	.1084885
#1	.3735450	-.038821	.1617876	-.049390	.0125453	147.0307	2.440271
#2	.3696202	-.035858	.1657435	-.053038	.0063438	147.0695	2.443360
#3	.3621176	-.039247	.1614302	-.047211	.0085258	146.5425	2.438090

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064345	.0024103	246.2759	.2916818	.2147654	.5153047	296.9793
Stddev	.0000859	.0000397	.8297	.0011658	.0011122	.0064275	.4275
%RSD	1.334652	1.649382	.3368996	.3996936	.5178502	1.247330	.1439544
#1	.0064343	.0024337	247.0819	.2906959	.2160346	.5145062	297.4283
#2	.0063488	.0023643	246.3215	.2929686	.2143007	.5093138	296.9326
#3	.0065205	.0024327	245.4244	.2913809	.2139610	.5220942	296.5771

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.766302	83.11009	.4614383	-.022352	1.430774	.6181488	.5439883
Stddev	.017499	.27869	.0004237	.000246	.182314	.0047319	.0026677
%RSD	.2253230	.3353323	.0918183	1.101392	12.74232	.7654896	.4903987
#1	7.784158	83.41536	.4618582	-.022237	1.386589	.6229587	.5470659
#2	7.765566	83.04562	.4614459	-.022184	1.631120	.6179887	.5425635
#3	7.749183	82.86927	.4610109	-.022634	1.274615	.6134991	.5423355

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.83233	9.598803	.3031323	-.001300	1.062522	4.718184	.0051807
Stddev	.05032	.038215	.0009514	.000431	.007597	.004973	.0009284
%RSD	.2989222	.3981245	.3138603	33.15876	.7149894	.1054006	17.92078
#1	16.86615	9.622384	.3035495	-.001210	1.053781	4.712852	.0047799
#2	16.77451	9.619314	.3038039	-.000920	1.067534	4.722695	.0062422
#3	16.85633	9.554711	.3020436	-.001768	1.066250	4.719006	.0045200

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-10DLX2 Acquired: 10/18/2024 15:29:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.587807	.1360259	.5553528
Stddev	.008580	.0008620	.0005056
%RSD	.3315356	.6337110	.0910482
#1	2.596987	.1350340	.5559323
#2	2.586443	.1365936	.5551248
#3	2.579992	.1364502	.5550014

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1020.512	23459.59	2904.168	906.9721	1598.869
Stddev	2.095	91.75	7.057	4.5969	2.651
%RSD	.2052677	.3910812	.2429839	.5068429	.1658045
#1	1019.555	23434.17	2899.900	901.9622	1597.337
#2	1019.067	23383.23	2900.291	907.9577	1597.340
#3	1022.914	23561.36	2912.314	910.9962	1601.930

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-11DLX2 Acquired: 10/18/2024 15:34:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3701459	-.042920	.2084796	-.051474	.0121733	95.48510	1.189316
Stddev	.0029558	.000519	.0050403	.009401	.0036898	.00916	.002034
%RSD	.7985564	1.208611	2.417669	18.26397	30.31079	.0095956	.1710579
#1	.3669384	-.043379	.2070045	-.040630	.0138964	95.47944	1.188468
#2	.3727599	-.042357	.2140929	-.056473	.0146865	95.48019	1.191637
#3	.3707394	-.043024	.2043413	-.057320	.0079372	95.49567	1.187842

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062098	.0021554	20.14505	.3006697	.1567193	.5555967	329.1264
Stddev	.0000834	.0000774	.07470	.0011181	.0004786	.0027481	.2781
%RSD	1.343123	3.589938	.3708220	.3718536	.3053688	.4946286	.0845088
#1	.0062426	.0020962	20.23121	.2995607	.1571411	.5566015	329.1529
#2	.0061150	.0021270	20.10545	.3017966	.1561992	.5577010	328.8360
#3	.0062718	.0022429	20.09848	.3006518	.1568175	.5524875	329.3904

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.891678	45.55503	.3016374	-.029531	1.515806	.6670303	.5517948
Stddev	.024249	.11523	.0019941	.000733	.350473	.0015485	.0041513
%RSD	.3518555	.2529373	.6610888	2.480807	23.12124	.2321548	.7523205
#1	6.916014	45.68547	.3019402	-.030187	1.363113	.6652911	.5511444
#2	6.891504	45.51253	.3034627	-.028740	1.267583	.6675405	.5562329
#3	6.867517	45.46709	.2995092	-.029667	1.916722	.6682594	.5480072

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.24231	5.400894	.3247285	-.000774	.7200247	4.970122	.0055525
Stddev	.04304	.026097	.0001755	.000289	.0092134	.023483	.0011286
%RSD	.1935117	.4832056	.0540399	37.38392	1.279589	.4724868	20.32521
#1	22.19752	5.400453	.3247131	-.001057	.7299535	4.991421	.0063291
#2	22.24605	5.375020	.3245612	-.000479	.7183693	4.974005	.0060705
#3	22.28335	5.427209	.3249112	-.000786	.7117512	4.944939	.0042579

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-11DLX2 Acquired: 10/18/2024 15:34:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.871678	.0924481	.1758162
Stddev	.009266	.0020198	.0002838
%RSD	.3226518	2.184775	.1613932
#1	2.878178	.0930384	.1761438
#2	2.875788	.0901989	.1756519
#3	2.861069	.0941069	.1756528

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1040.989	23631.38	2924.063	917.6358	1709.542
Stddev	1.079	77.08	4.232	7.0312	1.898
%RSD	.1036432	.3261620	.1447165	.7662347	.1110087
#1	1040.223	23711.96	2922.415	922.9868	1710.663
#2	1042.223	23558.37	2920.904	909.6723	1710.612
#3	1040.522	23623.81	2928.871	920.2483	1707.351

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-12DLX2 Acquired: 10/18/2024 15:38:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3941766	-.043536	.1290825	-.045846	.0079071	144.3660	1.432926
Stddev	.0096415	.002911	.0035791	.004594	.0020978	.3382	.000735
%RSD	2.445986	6.685681	2.772757	10.02028	26.53047	.2342405	.0512630
#1	.4044203	-.040184	.1320057	-.044978	.0078451	144.0967	1.433677
#2	.3928310	-.045431	.1301511	-.050812	.0100351	144.7455	1.432209
#3	.3852786	-.044992	.1250908	-.041748	.0058410	144.2558	1.432892

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066400	.0007092	40.63822	.3273028	.1643203	.3410146	298.3008
Stddev	.0004519	.0002294	.15150	.0007689	.0009934	.0027308	1.2956
%RSD	6.805501	32.35259	.3727987	.2349221	.6045289	.8007863	.4343113
#1	.0061642	.0009721	40.46346	.3270540	.1654606	.3411267	297.0031
#2	.0070633	.0006062	40.73232	.3281653	.1638573	.3436877	299.5942
#3	.0066927	.0005493	40.71889	.3266891	.1636429	.3382295	298.3053

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.287208	63.95810	.3653996	-.027065	1.351044	.5711954	.4902810
Stddev	.027816	.25397	.0024467	.000748	.160263	.0010152	.0017579
%RSD	.4424183	.3970825	.6695904	2.764699	11.86215	.1777367	.3585429
#1	6.255198	63.71887	.3647408	-.026262	1.319504	.5715096	.4915398
#2	6.300924	64.22460	.3681082	-.027743	1.524732	.5700602	.4882726
#3	6.305501	63.93083	.3633498	-.027190	1.208896	.5720164	.4910307

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.24560	5.867550	.3064183	-.001085	1.346332	4.960272	.0086941
Stddev	.11939	.005846	.0025803	.000480	.007912	.014948	.0026949
%RSD	.6203243	.0996333	.8420908	44.27555	.5876706	.3013452	30.99741
#1	19.35752	5.872281	.3047073	-.001562	1.351071	4.945438	.0096951
#2	19.25935	5.869355	.3093862	-.000602	1.337198	4.975330	.0056419
#3	19.11994	5.861015	.3051614	-.001090	1.350726	4.960047	.0107453

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-12DLX2 Acquired: 10/18/2024 15:38:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.916024	.1296060	.3314452
Stddev	.008807	.0016422	.0002262
%RSD	.3020112	1.267094	.0682347
#1	2.906166	.1289030	.3316403
#2	2.918791	.1284323	.3314980
#3	2.923115	.1314827	.3311973

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1055.204	23814.93	2951.185	922.8525	1680.201
Stddev	2.116	96.33	5.636	8.4803	2.974
%RSD	.2005608	.4044970	.1909584	.9189272	.1770321
#1	1053.580	23703.96	2949.197	913.1204	1677.218
#2	1057.598	23876.99	2946.813	928.6571	1680.220
#3	1054.435	23863.85	2957.545	926.7800	1683.167

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-13DLX2 Acquired: 10/18/2024 15:42:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3280392	-.038263	.1309513	-.037393	.0092069	135.1631	1.724231
Stddev	.0615557	.006522	.0102562	.012974	.0009096	.1678	.001577
%RSD	18.76474	17.04428	7.832083	34.69675	9.879907	.1241125	.0914748
#1	.3657626	-.039617	.1360213	-.041597	.0102535	135.2446	1.723197
#2	.3613485	-.044001	.1376852	-.047743	.0086064	134.9702	1.723450
#3	.2570065	-.031171	.1191475	-.022838	.0087609	135.2746	1.726046

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067114	.0002872	46.46361	.2892029	.1660715	.3530212	284.5395
Stddev	.0001455	.0019594	.14117	.0005690	.0255271	.0035604	.6004
%RSD	2.167527	682.1489	.3038396	.1967416	15.37117	1.008540	.2109969
#1	.0065573	.0016392	46.48549	.2898598	.1806198	.3556740	284.2509
#2	.0067305	.0011823	46.31277	.2888793	.1809987	.3489749	284.1379
#3	.0068463	-.001960	46.59256	.2888694	.1365962	.3544148	285.2297

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.468080	66.59366	.3634784	-.027188	1.465061	.6066185	.4756553
Stddev	.022315	.21981	.0529198	.000364	.166324	.0147365	.0013709
%RSD	.2988020	.3300799	14.55928	1.339073	11.35272	2.429278	.2882187
#1	7.458346	66.51228	.3946660	-.026786	1.275212	.6201775	.4754754
#2	7.452287	66.42614	.3933930	-.027283	1.585121	.5909352	.4771073
#3	7.493609	66.84256	.3023763	-.027496	1.534850	.6087426	.4743832

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.40490	7.215144	.2900065	-.001344	.7659626	6.503907	.0055796
Stddev	.16270	1.095846	.0012662	.000563	.1270935	.025736	.0038492
%RSD	.8840208	15.18814	.4366238	41.89394	16.59265	.3956979	68.98707
#1	18.35945	7.851183	.2898274	-.000837	.8414072	6.476368	.0061897
#2	18.26976	7.844473	.2913527	-.001950	.8372534	6.508005	.0090872
#3	18.58550	5.949775	.2888393	-.001245	.6192273	6.527348	.0014617

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-13DLX2 Acquired: 10/18/2024 15:42:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.117456	.1286484	.2861343
Stddev	.010266	.0007137	.0004650
%RSD	.4848085	.5547355	.1625208
#1	2.116993	.1283150	.2856207
#2	2.107429	.1281625	.2865268
#3	2.127944	.1294677	.2862554

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1166.704	24420.58	3000.825	952.4471	1843.943
Stddev	138.764	52.04	11.463	1.7874	249.723
%RSD	11.89368	.2130863	.3819954	.1876644	13.54290
#1	1085.679	24375.30	3012.512	952.3917	1697.566
#2	1087.502	24409.01	3000.363	950.6881	1701.976
#3	1326.931	24477.43	2989.600	954.2616	2132.288

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-14DLX2 Acquired: 10/18/2024 15:47:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1665244	-.018789	.0561965	-.021716	.0054083	57.15424	.5081448
Stddev	.0169333	.004427	.0058025	.007132	.0008446	.09106	.0011207
%RSD	10.16863	23.56165	10.32541	32.84208	15.61734	.1593252	.2205413
#1	.1734650	-.023041	.0566638	-.028530	.0060424	57.06740	.5086505
#2	.1788847	-.019120	.0617511	-.014304	.0057330	57.14632	.5089235
#3	.1472236	-.014206	.0501744	-.022313	.0044495	57.24901	.5068604

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030443	-.000269	35.48759	.1316567	.0731398	.1677553	147.2281
Stddev	.0001416	.000697	.12041	.0012947	.0064609	.0057212	.3240
%RSD	4.652658	259.1744	.3393115	.9833722	8.833671	3.410425	.2200894
#1	.0031206	.000235	35.41360	.1329661	.0771186	.1633627	146.8562
#2	.0031314	.000022	35.62653	.1316267	.0766157	.1742248	147.4496
#3	.0028808	-.001064	35.42264	.1303773	.0656850	.1656783	147.3785

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.440807	29.83041	.1212404	-.013594	.6592236	.2817944	.3248688
Stddev	.004737	.08502	.0102278	.000593	.2483068	.0032527	.0011194
%RSD	.1376794	.2850105	8.435932	4.358898	37.66656	1.154264	.3445695
#1	3.435555	29.92858	.1268700	-.013910	.6806657	.2805492	.3242413
#2	3.444757	29.78071	.1274165	-.012911	.8961140	.2854857	.3261612
#3	3.442109	29.78193	.1094346	-.013962	.4008910	.2793484	.3242040

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.93815	3.898845	.1562813	-.000148	.9466085	6.016332	.0023262
Stddev	.04353	.337214	.0008728	.000455	.0820795	.017570	.0001157
%RSD	.2731408	8.649070	.5585034	307.2889	8.670904	.2920320	4.973872
#1	15.89563	4.097292	.1554066	-.000420	.9985161	5.996506	.0023603
#2	15.93619	4.089755	.1571523	.000377	.9893296	6.022516	.0021973
#3	15.98263	3.509488	.1562849	-.000401	.8519797	6.029973	.0024210

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-14DLX2 Acquired: 10/18/2024 15:47:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.944737	.0637334	.1458984
Stddev	.002384	.0005291	.0003521
%RSD	.1226102	.8302392	.2413244
#1	1.942406	.0631322	.1455978
#2	1.944633	.0639400	.1458116
#3	1.947172	.0641281	.1462858

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1067.487	22984.38	2787.381	896.5201	1842.107
Stddev	78.204	78.93	6.167	2.6391	139.115
%RSD	7.325980	.3434038	.2212382	.2943752	7.551946
#1	1022.906	23010.54	2794.134	895.7792	1759.613
#2	1021.769	22895.69	2782.049	894.3307	1763.985
#3	1157.787	23046.91	2785.960	899.4505	2002.723

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-15DLX2 Acquired: 10/18/2024 15:51:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0679981	-.016427	.0541873	-.019687	.0041020	82.11295	.6570666
Stddev	.0524101	.013956	.0165772	.016578	.0022520	.23282	.0037149
%RSD	77.07585	84.95597	30.59247	84.20889	54.90133	.2835411	.5653816
#1	.1012511	-.020397	.0632392	-.026377	.0056069	81.85891	.6528264
#2	.0951609	-.027968	.0642680	-.031875	.0051861	82.16376	.6586239
#3	.0075823	-.000917	.0350548	-.000809	.0015129	82.31616	.6597493

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037804	-.002191	28.91186	.0989258	.0623425	.1811369	178.6433
Stddev	.0002314	.003369	.14302	.0020264	.0423268	.0028660	.2765
%RSD	6.121167	153.7791	.4946828	2.048442	67.89410	1.582229	.1547720
#1	.0038817	-.000215	28.93192	.0986346	.0888398	.1816069	178.5288
#2	.0035156	-.000277	28.75987	.1010820	.0846604	.1780650	178.4424
#3	.0039438	-.006081	29.04380	.0970606	.0135272	.1837389	178.9586

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.410678	38.45346	.0689699	-.016910	1.119286	.3267600	.3281850
Stddev	.015494	.06155	.0430402	.000603	.262912	.0024282	.0011386
%RSD	.4542927	.1600571	62.40433	3.564059	23.48924	.7431111	.3469513
#1	3.404115	38.52257	.0956119	-.017163	.922774	.3287957	.3294900
#2	3.399545	38.40457	.0919821	-.017345	1.417941	.3240724	.3273943
#3	3.428374	38.43323	.0193156	-.016222	1.017142	.3274120	.3276706

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.605323	2.886140	.1740707	-.000816	.1342789	3.322938	.0056679
Stddev	.167614	1.834595	.0011085	.000790	.0965325	.004733	.0053507
%RSD	2.990259	63.56568	.6368139	96.75255	71.88956	.1424238	94.40348
#1	5.443043	3.999898	.1749515	-.001680	.1838628	3.319542	.0095832
#2	5.595122	3.889837	.1728260	-.000640	.1959426	3.320928	.0078493
#3	5.777804	.768686	.1744347	-.000130	.0230312	3.328344	-.000429

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-15DLX2 Acquired: 10/18/2024 15:51:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.023474	.0869410	.1852005
Stddev	.010274	.0019863	.0004199
%RSD	.3398028	2.284596	.2267181
#1	3.011618	.0867095	.1847634
#2	3.029041	.0850806	.1856007
#3	3.029763	.0890328	.1852375

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1605.405	23482.81	2859.915	921.6019	2816.809
Stddev	964.252	38.31	4.912	3.6746	1826.741
%RSD	60.06286	.1631537	.1717541	.3987208	64.85143
#1	1035.542	23439.38	2865.399	917.4227	1736.191
#2	1061.950	23497.23	2858.427	924.3270	1788.303
#3	2718.724	23511.82	2855.918	923.0558	4925.934

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-16DLX2 Acquired: 10/18/2024 15:56:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2804040	-.027893	.1643796	-.034488	.0081552	109.2832	1.272280
Stddev	.1891462	.022746	.0755371	.030798	.0049647	.4349	.002533
%RSD	67.45488	81.54473	45.95283	89.30147	60.87823	.3979511	.1990832
#1	.3987292	-.041952	.2142760	-.056057	.0099484	109.1469	1.271751
#2	.3802246	-.040077	.2013881	-.048191	.0119741	108.9329	1.270054
#3	.0622583	-.001651	.0774749	.000784	.0025430	109.7700	1.275036

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066886	-.001051	35.13118	.2889247	.1242667	.6080001	302.2887
Stddev	.0002983	.006973	.24499	.0007427	.0764852	.0047390	1.7173
%RSD	4.460206	663.2047	.6973626	.2570614	61.54920	.7794394	.5680923
#1	.0065582	.003162	35.17429	.2891140	.1698504	.6035240	302.4539
#2	.0064777	.002783	34.86749	.2895544	.1669851	.6075122	300.4948
#3	.0070299	-.009100	35.35175	.2881056	.0359647	.6129642	303.9174

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.670962	53.60613	.2679397	-.026766	1.570693	.5939041	.5871110
Stddev	.041441	.19131	.1595813	.000370	.235016	.0156212	.0010685
%RSD	.6212097	.3568760	59.55865	1.381938	14.96257	2.630254	.1819876
#1	6.667487	53.54452	.3622604	-.027190	1.317778	.5828123	.5883389
#2	6.631368	53.45323	.3578701	-.026511	1.782344	.5871313	.5863932
#3	6.714030	53.82066	.0836885	-.026596	1.611956	.6117687	.5866009

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.13230	4.990429	.3063695	-.000511	.7847837	6.357506	.0044022
Stddev	.11338	3.022956	.0030020	.000452	.4959169	.043722	.0049771
%RSD	.5365353	60.57506	.9798577	88.61764	63.19154	.6877154	113.0599
#1	21.19377	6.799424	.3058679	-.000958	1.085173	6.348820	.0076282
#2	21.00145	6.671258	.3036498	-.000520	1.056796	6.318779	.0069082
#3	21.20167	1.500605	.3095906	-.000054	.212383	6.404919	-.001330

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-16DLX2 Acquired: 10/18/2024 15:56:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.495295	.1083695	.2049549
Stddev	.011388	.0014758	.0006177
%RSD	.4563969	1.361797	.3013848
#1	2.487994	.1083187	.2046136
#2	2.489474	.1069198	.2045831
#3	2.508417	.1098701	.2056679

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1537.180	23825.49	2937.115	932.3992	2633.823
Stddev	824.389	60.81	18.721	5.1369	1600.378
%RSD	53.62994	.2552263	.6373995	.5509297	60.76255
#1	1056.094	23768.96	2943.074	928.3826	1700.366
#2	1066.363	23817.69	2952.131	930.6276	1719.356
#3	2489.084	23889.82	2916.140	938.1874	4481.748

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-17DLX2 Acquired: 10/18/2024 16:00:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3997584	-.043290	.1734571	-.051157	.0110332	143.8946	1.943880
Stddev	.0098314	.004929	.0044204	.002218	.0009656	.4010	.003859
%RSD	2.459324	11.38626	2.548392	4.334816	8.751306	.2786919	.1985290
#1	.4012478	-.042533	.1719435	-.052257	.0109779	143.5451	1.942139
#2	.4087601	-.048553	.1784355	-.048605	.0120251	143.8063	1.941199
#3	.3892674	-.038782	.1699924	-.052610	.0100964	144.3324	1.948304

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071668	.0019734	43.21257	.3541318	.2076949	.4626604	341.7303
Stddev	.0001196	.0005333	.20172	.0013415	.0048783	.0029006	1.0905
%RSD	1.669235	27.02305	.4668035	.3788042	2.348777	.6269481	.3190980
#1	.0071336	.0023467	43.33254	.3545532	.2103277	.4597078	341.0384
#2	.0070672	.0022107	42.97968	.3552120	.2106911	.4655062	341.1652
#3	.0072995	.0013626	43.32548	.3526303	.2020658	.4627673	342.9874

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.08633	72.76261	.4285245	-.031986	1.742534	.6942717	.5891683
Stddev	.04653	.13928	.0064017	.000725	.380216	.0056404	.0039398
%RSD	.3849625	.1914169	1.493902	2.267420	21.81974	.8124185	.6687008
#1	12.08662	72.65858	.4321960	-.032401	1.907350	.7007827	.5918903
#2	12.03966	72.70840	.4322450	-.031149	2.012533	.6908761	.5846506
#3	12.13272	72.92084	.4211324	-.032409	1.307718	.6911565	.5909640

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.37540	7.462028	.3491186	-.000839	1.436186	6.285536	.0080590
Stddev	.15684	.103506	.0025734	.000608	.033833	.031646	.0014171
%RSD	.6180601	1.387109	.7371131	72.53695	2.355735	.5034802	17.58343
#1	25.31427	7.518425	.3481342	-.001293	1.465772	6.280782	.0095185
#2	25.25834	7.525088	.3471826	-.001075	1.443488	6.256536	.0066886
#3	25.55360	7.342570	.3520388	-.000148	1.399299	6.319291	.0079701

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-17DLX2 Acquired: 10/18/2024 16:00:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.651544	.1365720	.3248275
Stddev	.006522	.0028371	.0010408
%RSD	.2459783	2.077358	.3204003
#1	2.646251	.1391342	.3241137
#2	2.649551	.1335230	.3243471
#3	2.658830	.1370587	.3260217

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1084.413	24340.62	3006.238	947.1139	1701.387
Stddev	16.869	75.99	7.591	3.8517	27.313
%RSD	1.555592	.3121862	.2525206	.4066791	1.605349
#1	1073.029	24335.45	3007.119	942.9614	1685.661
#2	1076.417	24267.34	3013.350	950.5698	1685.573
#3	1103.793	24419.06	2998.244	947.8104	1732.925

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-19DLX2 Acquired: 10/18/2024 16:09:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1888134	-.016035	.1010143	-.012861	.0042137	111.5357	1.524179
Stddev	.2249298	.024850	.0645943	.025695	.0056529	.2973	.002221
%RSD	119.1281	154.9720	63.94571	199.7910	134.1548	.2665553	.1457153
#1	.4181869	-.043075	.1682044	-.038698	.0083483	111.4280	1.524064
#2	.1796458	-.010829	.0954647	-.012573	.0065208	111.3072	1.522018
#3	-.031392	.005800	.0393738	.012689	-.002228	111.8718	1.526455

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059524	-.005283	41.34174	.3085833	.0790683	.4101662	286.7753
Stddev	.0002720	.006574	.12072	.0014428	.0833679	.0031436	1.1151
%RSD	4.569482	124.4287	.2919955	.4675387	105.4379	.7664291	.3888368
#1	.0056454	.001458	41.36395	.3090441	.1647570	.4068884	286.3564
#2	.0061635	-.005633	41.21147	.3069665	.0742146	.4104542	285.9303
#3	.0060483	-.011675	41.44981	.3097395	-.001767	.4131559	288.0392

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.929600	56.04473	.1590693	-.026099	1.166192	.5818687	.5269401
Stddev	.018836	.29257	.1592353	.000411	.063337	.0066995	.0025794
%RSD	.2375353	.5220368	100.1043	1.573547	5.431106	1.151380	.4895003
#1	7.929281	55.79841	.3226595	-.025941	1.235638	.5748847	.5243455
#2	7.910926	55.96765	.1499694	-.025791	1.111606	.5824795	.5295040
#3	7.948593	56.36813	.0045792	-.026565	1.151332	.5882420	.5269708

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.51602	2.833766	.3083049	.0001296	.7539717	6.371329	.0017272
Stddev	.05498	2.878649	.0008171	.0000708	.8031699	.027986	.0056592
%RSD	.2555239	101.5839	.2650230	54.65516	106.5252	.4392425	327.6572
#1	21.50471	5.806287	.3090019	.0001356	1.584498	6.352136	.0074848
#2	21.46757	2.635801	.3074057	.0000559	.696131	6.358410	.0015250
#3	21.57577	.059209	.3085072	.0001972	-.018714	6.403440	-.003828

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-19DLX2 Acquired: 10/18/2024 16:09:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.331011	.1071565	.2567195
Stddev	.006141	.0009972	.0008345
%RSD	.2634339	.9306221	.3250609
#1	2.332301	.1073415	.2558651
#2	2.324328	.1080482	.2567609
#3	2.336404	.1060797	.2575325

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2482.499	23680.82	2920.386	921.9869	4578.117
Stddev	1986.412	14.46	9.607	2.7801	4029.192
%RSD	80.01663	.0610647	.3289522	.3015352	88.00980
#1	1050.904	23680.72	2926.154	923.3323	1700.387
#2	1646.287	23666.41	2925.709	918.7900	2851.008
#3	4750.307	23695.33	2909.296	923.8383	9182.956

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-20DLX2 Acquired: 10/18/2024 16:13:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9S0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1392091	-.013621	.1248362	-.012633	.0058742	104.5095	1.395717
Stddev	.2403771	.027911	.1143042	.040862	.0116567	.4038	.005430
%RSD	172.6734	204.9085	91.56333	323.4574	198.4380	.3863347	.3890234
#1	.4129006	-.045435	.2552755	-.059404	.0191539	104.5236	1.396352
#2	.0423737	-.002179	.0770707	.005367	.0011356	104.0989	1.389998
#3	-.037647	.006751	.0421625	.016139	-.002667	104.9060	1.400802

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065933	-.006905	24.88413	.3055937	.0614504	.5423036	319.2319
Stddev	.0004097	.008401	.18238	.0000618	.0891287	.0060390	1.4590
%RSD	6.213280	121.6624	.7329260	.0202223	145.0415	1.113573	.4570325
#1	.0066547	.002671	24.88366	.3055388	.1631214	.5390551	319.0961
#2	.0061564	-.010354	24.70199	.3056606	.0244418	.5492715	317.8455
#3	.0069687	-.013033	25.06675	.3055818	-.003212	.5385842	320.7540

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.064070	50.46129	.1320472	-.029029	1.255589	.6088645	.6959318
Stddev	.041978	.17844	.1782652	.000472	.359889	.0084456	.0041975
%RSD	.5942466	.3536163	135.0011	1.626334	28.66297	1.387102	.6031474
#1	7.069722	50.50759	.3353866	-.028489	1.659860	.6178081	.6997038
#2	7.019552	50.26427	.0580956	-.029367	.970125	.6010257	.6914099
#3	7.102935	50.61202	.0026593	-.029230	1.136781	.6077597	.6966816

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.91085	2.506719	.3213502	.0002537	.5644541	7.702243	.0005965
Stddev	.08990	3.437851	.0022554	.0001881	.8200178	.049665	.0051672
%RSD	.3924022	137.1455	.7018438	74.16063	145.2763	.6448103	866.1974
#1	22.95354	6.432743	.3200221	.0004397	1.500961	7.694326	.0063729
#2	22.80755	1.052203	.3200743	.0002579	.217219	7.657012	-.000997
#3	22.97145	.035210	.3239544	.0000635	-.024817	7.755390	-.003586

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-20DLX2 Acquired: 10/18/2024 16:13:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9S0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.578292	.0962672	.2069452
Stddev	.008372	.0006204	.0008731
%RSD	.3247213	.6444167	.4218887
#1	2.576623	.0968954	.2070334
#2	2.570880	.0956550	.2060314
#3	2.587373	.0962511	.2077709

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2863.826	23863.05	2915.778	929.0685	5374.633
Stddev	1902.325	58.90	13.737	5.6223	3881.631
%RSD	66.42602	.2468211	.4711432	.6051551	72.22132
#1	1059.134	23803.74	2914.733	922.7405	1727.035
#2	2681.663	23863.88	2930.008	933.4883	4942.699
#3	4850.680	23921.53	2902.593	930.9769	9454.165

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-18DLX2 Acquired: 10/18/2024 16:20:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2743637	-.030266	.1781662	-.036451	.0097274	72.26609	.9306084
Stddev	.0118683	.004669	.0007522	.004305	.0034399	14.54713	.1852526
%RSD	4.325743	15.42723	.4221809	11.81079	35.36282	20.12995	19.90661
#1	.2875401	-.034009	.1790214	-.036105	.0106864	55.58111	.7181131
#2	.2710378	-.031755	.1778701	-.032329	.0059098	82.29006	1.058136
#3	.2645132	-.025034	.1776071	-.040918	.0125861	78.92711	1.015576

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045624	.0026745	39.54201	.2372725	.1129509	.4173661	208.0378
Stddev	.0006551	.0014913	12.05738	.0054235	.0009885	.0936682	37.2784
%RSD	14.35958	55.75870	30.49258	2.285767	.8751275	22.44269	17.91907
#1	.0038354	.0043883	25.66112	.2434944	.1140426	.3101685	165.4141
#2	.0051072	.0019631	47.41572	.2335447	.1126936	.4834243	234.5549
#3	.0047447	.0016722	45.54919	.2347785	.1121165	.4585054	224.1444

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.532325	36.68177	.2499143	-.019901	1.236789	.4094344	.4502786
Stddev	.803622	7.21014	.0008575	.004167	.391090	.0717913	.0005049
%RSD	17.73089	19.65592	.3431355	20.93973	31.62139	17.53426	.1121207
#1	3.613906	28.41887	.2489286	-.015296	.801593	.3266806	.4505186
#2	5.106369	41.69607	.2503257	-.023413	1.349961	.4550361	.4506187
#3	4.876702	39.93038	.2504886	-.020994	1.558812	.4465865	.4496985

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.53766	5.067064	.2296560	-.000254	1.825072	7.503855	.0047712
Stddev	3.41070	.007453	.0428796	.000577	.008943	1.144020	.0015593
%RSD	21.95121	.1470863	18.67125	226.8878	.4900250	15.24576	32.68293
#1	11.62271	5.070760	.1805846	-.000920	1.830228	6.197548	.0029929
#2	17.86635	5.058486	.2599070	.000100	1.830243	8.327165	.0059052
#3	17.12391	5.071947	.2484762	.000057	1.814745	7.986853	.0054154

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-18DLX2 Acquired: 10/18/2024 16:20:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9R8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.913861	.0666964	.2166617
Stddev	.404606	.0148595	.0585013
%RSD	21.14082	22.27928	27.00119
#1	1.449665	.0501675	.1493162
#2	2.191759	.0789484	.2548983
#3	2.100158	.0709734	.2457707

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1043.746	23700.58	3165.977	922.6279	1739.605
Stddev	.912	50.22	524.282	1.0090	2.629
%RSD	.0873309	.2119009	16.55989	.1093626	.1511037
#1	1044.399	23648.76	3767.615	921.7876	1741.127
#2	1042.705	23703.96	2806.886	922.3492	1736.570
#3	1044.135	23749.03	2923.429	923.7470	1741.119

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-20LDLX10 Acquired: 10/18/2024 16:24:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9S0L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0937545	-.009859	.0593672	-.018913	.0050088	25.29913	.3288189
Stddev	.0075756	.001653	.0013385	.003886	.0027390	.04155	.0009987
%RSD	8.080299	16.76373	2.254672	20.54847	54.68279	.1642317	.3037173
#1	.0850882	-.007951	.0592903	-.020617	.0061833	25.32165	.3279825
#2	.0991181	-.010779	.0580687	-.014466	.0018785	25.32455	.3299246
#3	.0970572	-.010847	.0607425	-.021656	.0069648	25.25118	.3285495

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015223	.0003785	6.194770	.0729206	.0368389	.1302191	78.59164
Stddev	.0001371	.0001332	.012349	.0005265	.0007039	.0019223	.20626
%RSD	9.007008	35.18346	.1993417	.7220387	1.910637	1.476229	.2624470
#1	.0013748	.0002298	6.205118	.0723130	.0362220	.1302449	78.71212
#2	.0015463	.0004191	6.198094	.0732068	.0376056	.1321284	78.70933
#3	.0016458	.0004867	6.181100	.0732421	.0366890	.1282840	78.35348

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.733207	12.03197	.0753229	-.008428	.6042620	.1522502	.1902608
Stddev	.004272	.03226	.0010976	.000626	.1845715	.0055747	.0009537
%RSD	.2464746	.2681146	1.457246	7.433044	30.54495	3.661566	.5012339
#1	1.734939	12.04068	.0756431	-.007749	.5115513	.1467677	.1900772
#2	1.736340	11.99625	.0762249	-.008984	.4844241	.1520703	.1912929
#3	1.728341	12.05899	.0741008	-.008552	.8168106	.1579128	.1894124

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.327338	1.429633	.0769468	-.000406	.3335064	1.901477	.0021027
Stddev	.072585	.006965	.0010200	.000148	.0072172	.005444	.0027779
%RSD	1.362508	.4872021	1.325578	36.51031	2.164042	.2863045	132.1140
#1	5.244981	1.421826	.0765013	-.000320	.3296985	1.895842	.0002773
#2	5.381997	1.435211	.0762253	-.000321	.3418301	1.906708	.0007311
#3	5.355034	1.431862	.0781137	-.000577	.3289906	1.901880	.0052997

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-20LDLX10 Acquired: 10/18/2024 16:24:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9S0L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6173859	.0250560	.0492305
Stddev	.0028846	.0018905	.0001019
%RSD	.4672296	7.545116	.2069663
#1	.6159303	.0239908	.0493418
#2	.6155190	.0272388	.0492078
#3	.6207082	.0239385	.0491418

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1019.274	22787.02	2746.245	900.7904	1815.338
Stddev	1.883	83.38	4.826	4.7397	2.528
%RSD	.1846979	.3658966	.1757461	.5261714	.1392556
#1	1019.618	22693.60	2743.932	898.5265	1817.817
#2	1020.960	22813.58	2743.011	897.6072	1815.432
#3	1017.243	22853.89	2751.793	906.2375	1812.764

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-21DLX2 Acquired: 10/18/2024 16:29:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9S0D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4097271	-.040724	.2555682	-.050499	.0095719	102.8237	1.364433
Stddev	.0055155	.002765	.0061323	.002150	.0019353	.2333	.003094
%RSD	1.346138	6.790344	2.399470	4.257322	20.21859	.2269259	.2267961
#1	.4054322	-.040544	.2603457	-.052979	.0079922	103.0717	1.367394
#2	.4159471	-.038053	.2577056	-.049169	.0089929	102.7910	1.364686
#3	.4078020	-.043574	.2486533	-.049348	.0117307	102.6085	1.361221

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064622	.0028297	24.95009	.3007900	.1609752	.5290525	316.0474
Stddev	.0001101	.0000304	.13710	.0029790	.0005874	.0036182	.7672
%RSD	1.703401	1.075602	.5494836	.9903801	.3649062	.6839000	.2427584
#1	.0063663	.0028447	25.08428	.3040658	.1616515	.5250194	316.9324
#2	.0065824	.0028497	24.81026	.2982432	.1606811	.5320135	315.6391
#3	.0064379	.0027947	24.95574	.3000610	.1605928	.5301246	315.5707

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.956093	49.66408	.3279504	-.028633	1.440876	.6082804	.6407106
Stddev	.008200	.06053	.0020614	.000782	.239626	.0019622	.0039443
%RSD	.1178826	.1218867	.6285784	2.730375	16.63057	.3225889	.6156149
#1	6.963142	49.68889	.3292363	-.028174	1.474563	.6091761	.6442196
#2	6.947093	49.70827	.3290422	-.029535	1.186189	.6060301	.6364416
#3	6.958043	49.59508	.3255728	-.028188	1.661876	.6096349	.6414705

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.74444	6.336570	.3168702	.0004380	1.480640	7.639426	.0073641
Stddev	.14497	.040403	.0014541	.0006945	.001021	.046628	.0018202
%RSD	.6373882	.6376148	.4588887	158.5775	.0689733	.6103652	24.71698
#1	22.91055	6.364056	.3179200	.0008169	1.480972	7.631263	.0094565
#2	22.64349	6.355473	.3152105	-.000364	1.479493	7.689597	.0061458
#3	22.67926	6.290181	.3174802	.000861	1.481453	7.597419	.0064901

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-21DLX2 Acquired: 10/18/2024 16:29:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9S0D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.548120	.0928256	.2035257
Stddev	.005956	.0036125	.0004859
%RSD	.2337593	3.891717	.2387286
#1	2.553960	.0965688	.2039283
#2	2.548346	.0893598	.2036628
#3	2.542053	.0925484	.2029860

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1060.312	23846.67	2920.547	929.5675	1730.622
Stddev	2.301	166.34	9.581	6.8191	6.583
%RSD	.2169683	.6975474	.3280409	.7335769	.3803602
#1	1058.644	23706.38	2919.522	924.4163	1730.292
#2	1059.356	24030.43	2911.521	937.3005	1724.211
#3	1062.937	23803.20	2930.599	926.9856	1737.364

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCV014 Acquired: 10/18/2024 16:33:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV014 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.946414	4.784699	24.11053	4.696072	4.704030	402.6840	9.952327
Stddev	.024430	.002036	.02619	.044091	.030431	2.7239	.075204
%RSD	.4939019	.0425448	.1086100	.9388890	.6469162	.6764297	.7556380
#1	4.932047	4.784838	24.12332	4.655523	4.689727	400.6311	9.899278
#2	4.932572	4.782597	24.08041	4.689684	4.683386	405.7741	10.03839
#3	4.974622	4.786662	24.12787	4.743008	4.738978	401.6468	9.91931

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4925991	2.429524	400.6817	15.16349	2.466164	14.75696	402.4267
Stddev	.0035532	.006172	3.0148	.03072	.004324	.06903	3.1651
%RSD	.7213225	.2540348	.7524109	.2025651	.1753508	.4677624	.7864932
#1	.4902120	2.431968	398.4485	15.15124	2.465397	14.69308	400.2107
#2	.4966826	2.422504	404.1110	15.19844	2.462275	14.83018	406.0515
#3	.4909027	2.434099	399.4856	15.14080	2.470821	14.74763	401.0178

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.67603	402.3846	2.448723	1.255655	404.5556	2.461052	13.92568
Stddev	.10148	2.5746	.006453	.002852	3.3749	.018028	.03180
%RSD	.6914794	.6398394	.2635238	.2271243	.8342283	.7325479	.2283843
#1	14.60459	400.2883	2.449985	1.254233	401.7679	2.460648	13.91236
#2	14.79219	405.2584	2.441732	1.253793	408.3078	2.479279	13.90270
#3	14.63131	401.6072	2.454451	1.258938	403.5912	2.443229	13.96197

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.2389	4.963483	5.188671	4.693597	4.981265	4.932811	4.867675
Stddev	1.0177	.012273	.052297	.020285	.020290	.053243	.005815
%RSD	.6774144	.2472607	1.007908	.4321813	.4073183	1.079361	.1194715
#1	149.5552	4.976790	5.151605	4.682498	4.960983	4.891924	4.865863
#2	151.4085	4.952610	5.248490	4.681284	5.001563	4.993017	4.862980
#3	149.7530	4.961048	5.165918	4.717009	4.981248	4.913493	4.874180

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCV014 Acquired: 10/18/2024 16:33:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV014 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.912979	5.016510	4.993006
Stddev	.040768	.036751	.033571
%RSD	.8298038	.7325979	.6723603
#1	4.880099	4.980793	4.963662
#2	4.958595	5.054214	5.029615
#3	4.900245	5.014523	4.985741

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	800.2410	20209.16	2537.326	665.9312	1424.185
Stddev	3.3459	29.03	17.209	3.5275	2.579
%RSD	.4181130	.1436340	.6782290	.5297125	.1810860
#1	802.5853	20189.40	2549.594	665.1928	1424.173
#2	801.7285	20242.49	2517.654	669.7694	1426.770
#3	796.4093	20195.60	2544.730	662.8312	1421.612

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCB014 Acquired: 10/18/2024 16:37:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB014 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005889	-.000358	-.001286	-.005947	-.000338	.1589240	-.001374
Stddev	.0021978	.001748	.002024	.005928	.001962	.0224290	.000696
%RSD	373.1925	488.0449	157.4290	99.68978	580.6480	14.11306	50.61600
#1	.0030854	-.001973	-.000351	-.004795	-.002443	.1456045	-.000774
#2	-.000264	.001498	.000102	-.000679	-.000010	.1848193	-.002137
#3	-.001055	-.000600	-.003608	-.012366	.001440	.1463482	-.001213

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000162	.0001183	.0379348	.0005483	.0004942	-.000166	.0408044
Stddev	.000098	.0000765	.0142871	.0007334	.0002668	.001938	.0069920
%RSD	60.55513	64.63417	37.66232	133.7440	53.98349	1167.606	17.13533
#1	-.000179	.0001385	.0214375	.0013794	.0002680	-.001533	.0451564
#2	-.000250	.0001827	.0462344	-.000008	.0004263	-.001017	.0445175
#3	-.000056	.0000338	.0461323	.000273	.0007884	.002052	.0327392

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020760	.0042299	.0004329	.0006705	.1509172	-.002028	.0022819
Stddev	.0004024	.0355730	.0004009	.0005800	.1612089	.003922	.0002777
%RSD	19.38467	840.9818	92.61887	86.50140	106.8195	193.3387	12.17144
#1	.0025395	-.004933	-.000020	.0013193	-.009730	.002063	.0025760
#2	.0018158	.043488	.000742	.0004900	.312682	-.005754	.0022455
#3	.0018726	-.025865	.000577	.0002022	.149799	-.002395	.0020241

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.051768	.0024125	.0058905	.0004451	-.004745	.0024732	.0001335
Stddev	.129835	.0020476	.0007297	.0002206	.005386	.0002409	.0013616
%RSD	250.8011	84.87622	12.38835	49.55130	113.5147	9.741710	1019.917
#1	-.052229	.0047755	.0064315	.0003652	-.008698	.0025388	-.000045
#2	.078297	.0011593	.0061795	.0006945	-.006927	.0026745	.001576
#3	-.181372	.0013028	.0050605	.0002757	.001390	.0022062	-.001130

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCB014 Acquired: 10/18/2024 16:37:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB014 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001019	.0103853	.0003171
Stddev	.000404	.0008825	.0000618
%RSD	39.64785	8.497856	19.49049
#1	-.000795	.0093822	.0003881
#2	-.001485	.0107313	.0002751
#3	-.000777	.0110425	.0002880

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	972.6417	21559.98	2586.395	851.2196	1822.388
Stddev	3.5085	50.07	20.001	3.7976	1.913
%RSD	.3607170	.2322468	.7733231	.4461379	.1049662
#1	968.8846	21504.10	2599.189	846.9780	1820.656
#2	973.2079	21575.06	2596.650	854.3040	1824.441
#3	975.8328	21600.77	2563.346	852.3769	1822.067

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-22DLX2 Acquired: 10/18/2024 16:42:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9S0S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4923357	.0509850	.2933209	.1054967	.1701746	107.4960	5.128757
Stddev	.0040383	.0052363	.0014333	.0038886	.0035760	.3393	.021196
%RSD	.8202360	10.27020	.4886461	3.685964	2.101373	.3156096	.4132760
#1	.4914046	.0449715	.2923657	.1093280	.1679052	107.2511	5.122509
#2	.4888443	.0534478	.2926280	.1015533	.1742968	107.3535	5.111388
#3	.4967583	.0545359	.2949690	.1056088	.1683218	107.8832	5.152375

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0987645	.0961106	25.07239	.7056788	1.146812	.9702004	321.6728
Stddev	.0002880	.0001995	.11455	.0024045	.000430	.0021227	.9733
%RSD	.2915869	.2075957	.4568819	.3407401	.0374719	.2187916	.3025605
#1	.0987800	.0961807	24.96453	.7062304	1.146334	.9725351	320.8253
#2	.0984690	.0962655	25.06002	.7077596	1.147166	.9683865	321.4573
#3	.0990443	.0958854	25.19263	.7030464	1.146937	.9696797	322.7357

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.021626	50.25559	1.314683	.0625663	1.373334	1.581429	1.405332
Stddev	.039245	.11191	.002740	.0006890	.298598	.003659	.002268
%RSD	.4892406	.2226882	.2084445	1.101303	21.74254	.2313853	.1613662
#1	7.977716	50.15386	1.313061	.0622020	1.140379	1.579993	1.407788
#2	8.033880	50.23742	1.317847	.0633610	1.709947	1.585589	1.403319
#3	8.053282	50.37547	1.313142	.0621358	1.269676	1.578706	1.404887

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.92204	6.444353	.3251015	-.000016	1.483044	7.598614	.0085345
Stddev	.09793	.024537	.0028149	.000331	.004354	.031250	.0024128
%RSD	.4272320	.3807542	.8658639	2008.467	.2935560	.4112635	28.27165
#1	22.96117	6.425250	.3244630	-.000263	1.487374	7.607700	.0062137
#2	22.81059	6.472026	.3226606	.000360	1.483089	7.563828	.0083598
#3	22.99435	6.435784	.3281808	-.000146	1.478667	7.624315	.0110299

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4248-22DLX2 Acquired: 10/18/2024 16:42:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD9S0S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.579022	.0942188	.2057549
Stddev	.007239	.0029404	.0002816
%RSD	.2806703	3.120843	.1368421
#1	2.572497	.0958548	.2056141
#2	2.577761	.0959773	.2055715
#3	2.586809	.0908242	.2060791

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1046.364	23739.42	2908.963	924.4346	1715.309
Stddev	2.172	48.52	4.907	2.2838	1.562
%RSD	.2075305	.2043870	.1686977	.2470526	.0910696
#1	1048.704	23723.95	2908.893	923.6624	1716.482
#2	1045.974	23700.52	2913.905	922.6369	1713.536
#3	1044.413	23793.79	2904.091	927.0044	1715.909

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-01DLX2 Acquired: 10/18/2024 16:46:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2166605	-.040923	.2801504	-.038649	.0078119	196.1463	.9307854
Stddev	.0039123	.004610	.0091233	.002819	.0011761	.6086	.0021014
%RSD	1.805722	11.26456	3.256584	7.293542	15.05481	.3102864	.2257705
#1	.2121458	-.037178	.2737297	-.039080	.0086046	196.4439	.9312462
#2	.2187814	-.039521	.2905937	-.035640	.0064606	196.5489	.9326182
#3	.2190544	-.046072	.2761277	-.041228	.0083704	195.4462	.9284918

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121660	.0024260	45.45652	.3200356	.1315403	.5438708	291.5587
Stddev	.0001903	.0005758	.24128	.0010848	.0017086	.0024246	1.2410
%RSD	1.564101	23.73424	.5307979	.3389487	1.298928	.4458098	.4256600
#1	.0122337	.0017647	45.66451	.3189063	.1295697	.5412074	292.2940
#2	.0119511	.0026972	45.51308	.3201308	.1326089	.5444551	292.2562
#3	.0123131	.0028161	45.19199	.3210695	.1324423	.5459499	290.1258

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.118146	65.01698	.2516479	-.027177	1.479850	.5183710	.5249752
Stddev	.034678	.18790	.0036152	.000899	.328063	.0050292	.0010746
%RSD	.3803148	.2890049	1.436594	3.307381	22.16867	.9701929	.2046990
#1	9.155852	65.21978	.2474750	-.027652	1.695091	.5207877	.5239907
#2	9.110965	64.84879	.2538315	-.027738	1.642191	.5217356	.5248132
#3	9.087621	64.98235	.2536372	-.026140	1.102269	.5125896	.5261216

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.84686	3.055068	.3099594	-.001366	1.007250	6.677585	.0104099
Stddev	.12664	.053843	.0020403	.000573	.022188	.053454	.0017180
%RSD	.7516903	1.762415	.6582603	41.98680	2.202828	.8005022	16.50302
#1	16.96526	2.993755	.3079338	-.000866	.985673	6.735862	.0085393
#2	16.71334	3.076802	.3120142	-.001992	1.030003	6.630833	.0107735
#3	16.86196	3.094646	.3099303	-.001240	1.006075	6.666061	.0119171

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-01DLX2 Acquired: 10/18/2024 16:46:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.403895	.1302995	.2251929
Stddev	.005546	.0014717	.0002693
%RSD	.2307279	1.129453	.1195665
#1	2.407340	.1292812	.2253240
#2	2.406848	.1296304	.2253715
#3	2.397496	.1319868	.2248832

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1070.991	24070.01	2993.288	941.4128	1697.141
Stddev	8.474	41.12	20.278	2.3814	17.854
%RSD	.7912701	.1708388	.6774495	.2529642	1.051979
#1	1080.750	24115.10	2969.909	943.8536	1717.724
#2	1065.496	24060.37	3006.096	941.2894	1687.850
#3	1066.725	24034.58	3003.860	939.0955	1685.849

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-02DLX2 Acquired: 10/18/2024 16:50:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1798840	-.029604	.1784330	-.032145	.0079918	152.7556	1.110691
Stddev	.0029978	.001980	.0017070	.005202	.0028007	.4262	.002083
%RSD	1.666492	6.688805	.9566572	16.18352	35.04457	.2789805	.1875653
#1	.1764274	-.028619	.1803753	-.027437	.0047685	152.3497	1.112978
#2	.1817712	-.031883	.1777526	-.037730	.0098308	153.1995	1.110195
#3	.1814534	-.028309	.1771711	-.031268	.0093760	152.7176	1.108901

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097371	.0006830	34.73673	.2513183	.0979640	.3287768	228.8524
Stddev	.0002367	.0000298	.25588	.0015444	.0004250	.0033457	1.1356
%RSD	2.431242	4.366883	.7366123	.6145401	.4338123	1.017624	.4962090
#1	.0095049	.0006695	34.51381	.2529742	.0984422	.3276124	227.7355
#2	.0099781	.0006623	35.01612	.2499170	.0976295	.3261689	230.0058
#3	.0097281	.0007172	34.68025	.2510636	.0978203	.3325491	228.8157

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.467667	49.56698	.1899273	-.022904	1.124378	.4198071	.3606478
Stddev	.045154	.40180	.0006507	.000033	.177803	.0076486	.0025920
%RSD	.4769310	.8106161	.3426103	.1455390	15.81348	1.821927	.7186990
#1	9.424177	49.16730	.1905980	-.022893	1.137808	.4218175	.3600257
#2	9.514319	49.97087	.1898855	-.022942	1.295085	.4113541	.3584235
#3	9.464503	49.56277	.1892986	-.022878	.940240	.4262496	.3634943

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.446204	1.995570	.2427936	-.000471	.4775529	4.631341	.0065284
Stddev	.092518	.003192	.0016925	.000122	.0016401	.033753	.0038362
%RSD	.9794167	.1599561	.6970937	25.97322	.3434420	.7287930	58.76156
#1	9.361049	1.994861	.2433213	-.000498	.4781033	4.601098	.0049648
#2	9.544647	1.999058	.2441594	-.000578	.4757084	4.667753	.0037210
#3	9.432916	1.992793	.2409001	-.000337	.4788471	4.625172	.0108995

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-02DLX2 Acquired: 10/18/2024 16:50:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.924822	.1016718	.1761879
Stddev	.008668	.0031766	.0001600
%RSD	.4503126	3.124384	.0908001
#1	1.917224	.0997444	.1760629
#2	1.934263	.1053382	.1763682
#3	1.922978	.0999327	.1761326

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1063.873	23909.22	2943.016	936.4968	1728.886
Stddev	3.491	21.48	22.541	4.0993	5.561
%RSD	.3281339	.0898304	.7659234	.4377248	.3216371
#1	1060.800	23885.01	2964.856	935.2148	1722.893
#2	1067.669	23916.67	2919.833	941.0839	1733.879
#3	1063.150	23925.98	2944.358	933.1918	1729.885

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-03DLX2 Acquired: 10/18/2024 16:55:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1763267	-.033166	.1896058	-.030628	.0051286	167.6220	.7942787
Stddev	.0048778	.004690	.0011843	.009133	.0033113	.1058	.0028791
%RSD	2.766318	14.14200	.6245873	29.81779	64.56509	.0631056	.3624731
#1	.1798344	-.036687	.1889688	-.028295	.0017479	167.7215	.7957248
#2	.1783892	-.027842	.1909722	-.022889	.0052722	167.5109	.7909632
#3	.1707565	-.034970	.1888763	-.040701	.0083658	167.6336	.7961480

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104864	.0002840	37.27403	.3245792	.1089843	.3227823	237.6934
Stddev	.0000314	.0001952	.06252	.0010487	.0002520	.0061702	.7033
%RSD	.2999215	68.73553	.1677230	.3230879	.2312428	1.911576	.2958849
#1	.0104688	.0005011	37.20703	.3256191	.1087790	.3212900	237.2652
#2	.0105227	.0001231	37.33081	.3235219	.1092656	.3295618	238.5051
#3	.0104678	.0002277	37.28423	.3245965	.1089083	.3174951	237.3099

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.943253	56.65818	.2169823	-.022410	1.549317	.4354445	.3634988
Stddev	.029015	.05135	.0016497	.000547	.209920	.0048786	.0030037
%RSD	.3652736	.0906371	.7602822	2.443010	13.54920	1.120364	.8263319
#1	7.932772	56.63897	.2150783	-.021912	1.546664	.4339259	.3601188
#2	7.976051	56.71637	.2179850	-.022323	1.340735	.4409018	.3645152
#3	7.920935	56.61920	.2178836	-.022996	1.760550	.4315060	.3658625

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.613088	1.703929	.2580380	-.000746	.4955467	6.550878	.0105097
Stddev	.151815	.016361	.0029716	.000444	.0055277	.024029	.0009804
%RSD	1.579254	.9601806	1.151609	59.55369	1.115483	.3668124	9.328122
#1	9.507028	1.711412	.2590824	-.001253	.4907496	6.527675	.0113754
#2	9.786995	1.685165	.2603464	-.000423	.4942989	6.549304	.0094451
#3	9.545240	1.715210	.2546852	-.000562	.5015917	6.575656	.0107086

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-03DLX2 Acquired: 10/18/2024 16:55:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.223775	.1123220	.1900336
Stddev	.011275	.0004498	.0002834
%RSD	.5070389	.4004165	.1491551
#1	2.214460	.1123102	.1903560
#2	2.236310	.1127775	.1898235
#3	2.220557	.1118782	.1899213

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1052.753	23635.96	2923.305	919.5711	1704.286
Stddev	1.368	123.95	2.829	.9863	2.535
%RSD	.1299846	.5244294	.0967680	.1072553	.1487681
#1	1054.326	23512.35	2922.423	920.4704	1705.381
#2	1052.095	23635.29	2921.022	918.5163	1706.089
#3	1051.838	23760.25	2926.470	919.7266	1701.387

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-04DLX2 Acquired: 10/18/2024 16:59:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1481248	-.029402	.1578681	-.035089	.0049207	126.2216	1.021142
Stddev	.0032788	.006295	.0033326	.001467	.0013715	3.1194	.025387
%RSD	2.213564	21.41172	2.110977	4.182023	27.87182	2.471371	2.486104
#1	.1492670	-.029201	.1610174	-.033493	.0049420	122.6523	.992390
#2	.1444276	-.035795	.1543784	-.036380	.0062814	127.5872	1.030572
#3	.1506797	-.023209	.1582085	-.035393	.0035386	128.4253	1.040465

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080544	.0001415	28.78863	.2413719	.0846574	.2222180	198.8679
Stddev	.0002667	.0001748	.63003	.0005013	.0008347	.0040541	5.0435
%RSD	3.310884	123.6016	2.188474	.2076699	.9860033	1.824360	2.536111
#1	.0077493	.0002532	28.06121	.2417792	.0849887	.2188644	193.1241
#2	.0082428	-.000060	29.16170	.2415244	.0852756	.2210662	200.9073
#3	.0081712	.000231	29.14298	.2408121	.0837079	.2267233	202.5724

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.09754	41.20001	.1685915	-.019368	1.418681	.3906722	.3108429
Stddev	.24884	.98872	.0017007	.001007	.111474	.0073809	.0027192
%RSD	2.464395	2.399803	1.008774	5.201807	7.857569	1.889281	.8747792
#1	9.81481	40.05857	.1702200	-.018386	1.414818	.3867819	.3107328
#2	10.19453	41.75086	.1687278	-.020399	1.532035	.3991844	.3081804
#3	10.28328	41.79060	.1668268	-.019318	1.309188	.3860501	.3136154

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.016381	1.476332	.2133231	-.000351	.3595362	7.140869	.0073337
Stddev	.095142	.012349	.0071582	.000201	.0126019	.179330	.0009147
%RSD	1.355995	.8364619	3.355566	57.35855	3.505051	2.511322	12.47199
#1	6.942439	1.487207	.2052489	-.000200	.3730999	6.933923	.0062780
#2	6.982987	1.478881	.2158288	-.000273	.3573183	7.238070	.0078880
#3	7.123719	1.462907	.2188916	-.000579	.3481905	7.250615	.0078351

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-04DLX2 Acquired: 10/18/2024 16:59:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.869846	.0844601	.1571823
Stddev	.044775	.0027656	.0036856
%RSD	2.394603	3.274401	2.344797
#1	1.818488	.0815828	.1530449
#2	1.890371	.0846991	.1583882
#3	1.900680	.0870984	.1601140

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1045.929	23396.82	2935.737	912.0331	1730.324
Stddev	4.616	134.36	72.747	3.7254	7.054
%RSD	.4413364	.5742465	2.477968	.4084721	.4076669
#1	1041.589	23260.55	3019.129	909.9701	1724.656
#2	1045.418	23529.17	2902.784	916.3337	1728.092
#3	1050.778	23400.74	2885.299	909.7956	1738.224

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-05DLX2 Acquired: 10/18/2024 17:04:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1428173	-.024178	.1573664	-.034807	.0051782	128.9263	1.039096
Stddev	.0114745	.002317	.0032658	.005590	.0011053	.3730	.001397
%RSD	8.034385	9.583029	2.075259	16.06013	21.34610	.2892752	.1344062
#1	.1480790	-.026029	.1596575	-.028445	.0064050	128.7275	1.039787
#2	.1296555	-.024926	.1588147	-.038931	.0048696	129.3566	1.040013
#3	.1507173	-.021579	.1536269	-.037045	.0042599	128.6950	1.037489

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082547	-.000308	28.91191	.2342369	.0825923	.2196554	202.9765
Stddev	.0001700	.000137	.06379	.0016494	.0011267	.0015343	.8172
%RSD	2.058826	44.37309	.2206471	.7041611	1.364174	.6985151	.4025875
#1	.0082766	-.000178	28.87213	.2329291	.0829267	.2214269	202.1761
#2	.0080748	-.000296	28.98549	.2336916	.0813363	.2187875	203.8095
#3	.0084126	-.000451	28.87811	.2360898	.0835140	.2187517	202.9438

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.31853	42.06397	.1653888	-.020085	1.279988	.3941776	.2829927
Stddev	.03385	.14341	.0012142	.000385	.421457	.0062652	.0017825
%RSD	.3280417	.3409264	.7341290	1.919177	32.92664	1.589435	.6298567
#1	10.28069	42.03085	.1651193	-.019758	1.622819	.3891269	.2809821
#2	10.34592	42.22104	.1667151	-.020510	.809447	.4011886	.2843793
#3	10.32898	41.94002	.1643321	-.019987	1.407699	.3922174	.2836166

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.128754	1.449260	.2193431	-.001076	.3087361	7.299863	.0054644
Stddev	.182742	.007286	.0014374	.000177	.0033115	.031205	.0006813
%RSD	2.563446	.5027715	.6553069	16.45075	1.072608	.4274712	12.46788
#1	7.234755	1.457547	.2183589	-.001115	.3104087	7.264138	.0057338
#2	6.917743	1.446374	.2209926	-.001230	.3108777	7.313658	.0059698
#3	7.233764	1.443858	.2186777	-.000883	.3049218	7.321792	.0046896

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-05DLX2 Acquired: 10/18/2024 17:04:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.903032	.0846697	.1597482
Stddev	.005480	.0013076	.0001406
%RSD	.2879352	1.544359	.0879810
#1	1.900876	.0857646	.1596091
#2	1.909262	.0832218	.1598902
#3	1.898959	.0850226	.1597454

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1045.592	23480.22	2857.742	917.3310	1736.623
Stddev	3.165	34.84	5.665	3.2712	2.869
%RSD	.3027260	.1483793	.1982429	.3565992	.1652335
#1	1049.110	23440.93	2864.028	920.8658	1739.303
#2	1042.976	23507.33	2856.165	916.7165	1736.970
#3	1044.689	23492.42	2853.032	914.4106	1733.595

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-04LDLX10 Acquired: 10/18/2024 17:08:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0295866	-.006912	.0328984	-.003471	.0024569	27.62530	.2198947
Stddev	.0076621	.003575	.0039729	.001470	.0004474	.05281	.0011958
%RSD	25.89705	51.71868	12.07612	42.35911	18.20980	.1911692	.5438096
#1	.0383186	-.010677	.0313699	-.002943	.0029583	27.56870	.2191825
#2	.0239870	-.006495	.0299168	-.002339	.0020984	27.63394	.2192264
#3	.0264543	-.003564	.0374085	-.005133	.0023140	27.67326	.2212753

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018191	-.000073	6.414201	.0506390	.0176049	.0493464	44.75627
Stddev	.0001012	.000155	.012434	.0004229	.0001531	.0022737	.21246
%RSD	5.561650	213.0504	.1938571	.8350646	.8695052	4.607674	.4746964
#1	.0017358	.000095	6.401476	.0507333	.0177180	.0482881	44.54865
#2	.0019317	-.000211	6.414805	.0501770	.0174307	.0519564	44.97326
#3	.0017898	-.000102	6.426322	.0510068	.0176660	.0477948	44.74689

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.270643	9.046875	.0341752	-.005774	.6862824	.0852824	.0660934
Stddev	.007514	.081520	.0007324	.000221	.3143862	.0051191	.0006974
%RSD	.3309342	.9010839	2.143003	3.822759	45.81003	6.002472	1.055150
#1	2.264733	8.980631	.0334483	-.006027	.6957110	.0911876	.0668974
#2	2.279100	9.022080	.0341646	-.005672	.9958482	.0825572	.0657304
#3	2.268097	9.137913	.0349129	-.005622	.3672879	.0821025	.0656523

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.242383	.2878641	.0469466	-.000035	.0613323	1.599737	.0012012
Stddev	.039133	.0022158	.0009748	.000028	.0064076	.002987	.0004748
%RSD	3.149794	.7697358	2.076411	79.44477	10.44730	.1867423	39.52636
#1	1.204005	.2880153	.0480614	-.000066	.0540737	1.596576	.0006789
#2	1.240916	.2855766	.0462543	-.000011	.0662032	1.602513	.0013182
#3	1.282229	.2900005	.0465242	-.000029	.0637199	1.600124	.0016066

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-04LDLX10 Acquired: 10/18/2024 17:08:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4080874	.0230236	.0341278
Stddev	.0035556	.0008903	.0002281
%RSD	.8712750	3.866733	.6683452
#1	.4084173	.0220069	.0342654
#2	.4043784	.0234005	.0338645
#3	.4114665	.0236635	.0342535

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1011.389	22608.26	2696.648	894.0723	1825.887
Stddev	2.125	25.19	1.045	4.1771	3.459
%RSD	.2100970	.1114406	.0387697	.4672047	.1894516
#1	1009.701	22619.87	2697.796	889.2601	1822.782
#2	1013.775	22579.36	2696.397	896.1949	1829.616
#3	1010.692	22625.57	2695.751	896.7619	1825.264

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-06DLX2 Acquired: 10/18/2024 17:13:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2155575	.0761397	.1933182	.1388432	.1809686	127.1108	5.103010
Stddev	.0054728	.0024448	.0034271	.0050481	.0030009	.2838	.005484
%RSD	2.538908	3.210905	1.772755	3.635847	1.658265	.2232759	.1074640
#1	.2163432	.0759419	.1905132	.1401091	.1791541	127.1303	5.103077
#2	.2097342	.0737998	.1971381	.1332826	.1793193	127.3844	5.108461
#3	.2205949	.0786773	.1923033	.1431379	.1844325	126.8178	5.097493

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1104783	.1020686	28.30795	.6681697	1.149377	.6916140	198.4693
Stddev	.0001787	.0001776	.07848	.0006583	.000731	.0053216	.8625
%RSD	.1617729	.1739615	.2772507	.0985274	.0636232	.7694539	.4345798
#1	.1106033	.1018746	28.22312	.6676332	1.149392	.6869772	198.4015
#2	.1105581	.1021082	28.37797	.6679715	1.148639	.6974246	199.3637
#3	.1102736	.1022230	28.32276	.6689043	1.150101	.6904403	197.6427

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.03534	40.32589	1.232551	.0822622	1.293787	1.456049	1.118458
Stddev	.04534	.03474	.001836	.0008730	.413020	.004406	.003295
%RSD	.4108338	.0861451	.1489921	1.061231	31.92334	.3025941	.2946310
#1	11.02834	40.31641	1.230837	.0813625	1.352374	1.451009	1.115521
#2	11.08376	40.36438	1.232325	.0823182	.854602	1.459168	1.117833
#3	10.99390	40.29687	1.234489	.0831058	1.674386	1.457971	1.122022

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.661007	1.380356	.2122334	-.000888	.3034227	6.958155	.0076603
Stddev	.118415	.003595	.0029393	.000228	.0020202	.028100	.0020771
%RSD	1.777729	.2604308	1.384945	25.69029	.6658008	.4038371	27.11565
#1	6.692617	1.383343	.2118296	-.000704	.3042723	6.988552	.0058124
#2	6.760409	1.376366	.2153538	-.000817	.3048793	6.952783	.0099084
#3	6.529995	1.381358	.2095169	-.001144	.3011164	6.933128	.0072601

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-06DLX2 Acquired: 10/18/2024 17:13:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B8S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.825652	.0840551	.1524469
Stddev	.007394	.0004449	.0003495
%RSD	.4050124	.5292732	.2292310
#1	1.829170	.0838804	.1520900
#2	1.830631	.0845609	.1527884
#3	1.817156	.0837242	.1524623

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1036.875	23516.64	2887.327	914.8131	1729.180
Stddev	1.528	35.30	12.928	1.7355	1.676
%RSD	.1474124	.1501056	.4477380	.1897161	.0969103
#1	1038.220	23545.72	2877.815	916.7663	1730.949
#2	1035.212	23477.37	2882.119	914.2250	1728.975
#3	1037.192	23526.84	2902.046	913.4481	1727.617

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-07DLX2 Acquired: 10/18/2024 17:17:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3648158	-.043985	.2130454	-.050750	.0083282	130.1772	1.213540
Stddev	.0084818	.002979	.0023199	.007674	.0015204	.5529	.005369
%RSD	2.324963	6.771920	1.088908	15.12167	18.25563	.4247483	.4424468
#1	.3738283	-.047361	.2103953	-.044541	.0067344	129.9927	1.216249
#2	.3636296	-.042864	.2140323	-.048379	.0097626	130.7988	1.217015
#3	.3569895	-.041729	.2147087	-.059331	.0084876	129.7402	1.207356

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055299	.0033738	21.15456	.2943184	.1700761	.6112783	315.9172
Stddev	.0001001	.0002704	.14237	.0015522	.0003824	.0039507	1.3269
%RSD	1.809917	8.015157	.6729904	.5273705	.2248150	.6463047	.4200036
#1	.0056337	.0031410	21.07995	.2952245	.1705116	.6075942	315.5150
#2	.0054339	.0033100	21.31873	.2925261	.1697952	.6154503	317.3986
#3	.0055223	.0036704	21.06501	.2952045	.1699217	.6107904	314.8379

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.380992	67.08164	.2934973	-.029144	1.553409	.7198324	.5820870
Stddev	.036516	.14768	.0009530	.000054	.228734	.0021755	.0004924
%RSD	.4947305	.2201542	.3247162	.1859144	14.72465	.3022257	.0845996
#1	7.365568	66.96327	.2938759	-.029142	1.309655	.7211030	.5816113
#2	7.422689	67.24713	.2924131	-.029090	1.587211	.7173203	.5825947
#3	7.354719	67.03452	.2942028	-.029199	1.763361	.7210737	.5820549

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.00766	4.518250	.3177792	-.000777	.7750389	6.410486	.0093166
Stddev	.07551	.004638	.0009220	.000372	.0045318	.013447	.0037910
%RSD	.3773809	.1026458	.2901447	47.85744	.5847128	.2097578	40.69112
#1	20.05678	4.523494	.3177056	-.001146	.7708894	6.409574	.0074815
#2	20.04549	4.514687	.3187357	-.000784	.7798747	6.424366	.0067924
#3	19.92072	4.516569	.3168961	-.000402	.7743526	6.397519	.0136761

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-07DLX2 Acquired: 10/18/2024 17:17:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.391888	.1166613	.2640333
Stddev	.020248	.0032245	.0012447
%RSD	.5969487	2.763972	.4714268
#1	3.387725	.1135975	.2646065
#2	3.413894	.1200254	.2648881
#3	3.374046	.1163611	.2626052

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1066.317	24118.26	2968.780	938.0282	1712.797
Stddev	1.223	37.48	5.217	.9510	1.325
%RSD	.1146650	.1553802	.1757204	.1013866	.0773541
#1	1065.890	24082.85	2972.452	936.9394	1711.546
#2	1067.696	24157.51	2962.809	938.6966	1714.185
#3	1065.366	24114.43	2971.080	938.4485	1712.659

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-08DLX2 Acquired: 10/18/2024 17:21:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3756492	-.055781	.1151130	-.058868	.0102825	194.8277	1.612432
Stddev	.0014214	.002672	.0076154	.002396	.0034313	.3470	.004801
%RSD	.3783903	4.789606	6.615627	4.070780	33.37021	.1780930	.2977240
#1	.3754773	-.053018	.1111331	-.058290	.0066737	195.1913	1.616545
#2	.3743215	-.055974	.1103120	-.056813	.0135033	194.5001	1.607157
#3	.3771487	-.058351	.1238937	-.061500	.0106705	194.7917	1.613594

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072598	.0008409	34.04572	.4213021	.2033161	.4750034	378.0163
Stddev	.0001155	.0002290	.01827	.0017047	.0004040	.0068278	.4121
%RSD	1.590620	27.22787	.0536587	.4046364	.1986881	1.437413	.1090164
#1	.0071266	.0005824	34.06613	.4221234	.2028655	.4732047	378.1549
#2	.0073212	.0009221	34.04011	.4224407	.2036459	.4825504	377.5528
#3	.0073316	.0010182	34.03091	.4193422	.2034369	.4692550	378.3413

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.584923	83.37052	.3833234	-.036923	1.623455	.8771878	.4629541
Stddev	.002573	.14627	.0009794	.000240	.218802	.0071285	.0010897
%RSD	.0339279	.1754424	.2555136	.6505436	13.47754	.8126518	.2353744
#1	7.586334	83.32780	.3832141	-.036648	1.859141	.8721464	.4617860
#2	7.586482	83.53339	.3824032	-.037027	1.426788	.8740734	.4631334
#3	7.581952	83.25037	.3843529	-.037094	1.584436	.8853435	.4639431

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.69464	4.901354	.3828747	-.000990	.9185435	4.656181	.0094306
Stddev	.03428	.022487	.0014491	.000713	.0077715	.018091	.0015335
%RSD	.3205483	.4588007	.3784846	71.99007	.8460633	.3885401	16.26122
#1	10.67156	4.882669	.3845286	-.001333	.9108938	4.641661	.0076651
#2	10.73403	4.926312	.3818276	-.000171	.9264313	4.650434	.0104319
#3	10.67833	4.895082	.3822680	-.001467	.9183052	4.676447	.0101949

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-08DLX2 Acquired: 10/18/2024 17:21:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.832481	.1678049	.4375613
Stddev	.003227	.0019832	.0007059
%RSD	.0842009	1.181867	.1613344
#1	3.833661	.1664253	.4377248
#2	3.828829	.1700777	.4367879
#3	3.834951	.1669119	.4381711

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1113.237	25069.09	3093.043	975.2619	1680.336
Stddev	1.808	71.83	5.187	3.0821	1.720
%RSD	.1623703	.2865461	.1677138	.3160324	.1023690
#1	1112.093	25020.97	3096.390	978.2240	1678.700
#2	1112.298	25034.64	3095.672	972.0723	1682.129
#3	1115.321	25151.66	3087.068	975.4892	1680.179

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-09DLX2 Acquired: 10/18/2024 17:26:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3202379	-.041289	.0729746	-.044680	.0068112	138.6511	1.078196
Stddev	.0117137	.003716	.0014556	.000830	.0020658	.3497	.002956
%RSD	3.657826	8.998911	1.994653	1.857629	30.32894	.2522094	.2742072
#1	.3273239	-.045379	.0737561	-.045628	.0083030	138.5387	1.080893
#2	.3266725	-.040365	.0738725	-.044326	.0044534	139.0432	1.078660
#3	.3067172	-.038122	.0712952	-.044085	.0076772	138.3715	1.075035

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049889	-.000053	26.78576	.2868751	.1539804	.3500170	275.8348
Stddev	.0001819	.000182	.12653	.0016819	.0013415	.0026386	.8940
%RSD	3.645541	344.1612	.4723949	.5862906	.8712180	.7538432	.3240969
#1	.0050279	.000156	26.74684	.2887262	.1555120	.3528155	275.1393
#2	.0047906	-.000135	26.92718	.2854406	.1534150	.3475744	276.8432
#3	.0051481	-.000180	26.68325	.2864586	.1530141	.3496612	275.5219

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.694943	62.42636	.2661555	-.027439	1.148717	.6176998	.3486325
Stddev	.033360	.34432	.0013052	.000721	.230432	.0094885	.0000382
%RSD	.5857826	.5515572	.4903776	2.627307	20.05991	1.536101	.0109662
#1	5.685548	62.46962	.2675897	-.026993	1.373379	.6136232	.3486137
#2	5.731993	62.74700	.2658396	-.027054	1.159853	.6285453	.3486765
#3	5.667288	62.06245	.2650373	-.028271	.912920	.6109308	.3486074

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.370208	3.063494	.2777034	-.000788	.4315502	5.390307	.0074928
Stddev	.041178	.014664	.0025542	.000470	.0030720	.017835	.0008934
%RSD	.6464077	.4786558	.9197517	59.61118	.7118526	.3308679	11.92355
#1	6.408875	3.075315	.2748914	-.000655	.4348861	5.391167	.0066143
#2	6.374838	3.068081	.2798797	-.001309	.4309269	5.372058	.0084004
#3	6.326911	3.047085	.2783389	-.000399	.4288377	5.407697	.0074636

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-09DLX2 Acquired: 10/18/2024 17:26:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.348826	.1194961	.3155929
Stddev	.007497	.0023442	.0003187
%RSD	.2238662	1.961704	.1009898
#1	3.343393	.1221898	.3157658
#2	3.357379	.1183803	.3157877
#3	3.345706	.1179184	.3152251

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1079.487	24317.22	2993.405	943.6731	1713.028
Stddev	3.943	95.78	3.374	1.2480	2.327
%RSD	.3652934	.3938828	.1126977	.1322523	.1358269
#1	1077.458	24288.63	2995.157	944.7628	1710.583
#2	1076.971	24238.99	2989.516	942.3115	1713.285
#3	1084.032	24424.04	2995.543	943.9448	1715.215

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-10DLX2 Acquired: 10/18/2024 17:30:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5479940	-.044899	.0727164	-.047214	.0063612	139.3407	1.140784
Stddev	.0137044	.001626	.0034744	.004353	.0032798	.3426	.005899
%RSD	2.500835	3.621541	4.778054	9.218881	51.55984	.2458500	.5170853
#1	.5475896	-.043865	.0729464	-.050235	.0053375	139.7031	1.147567
#2	.5344963	-.046773	.0760702	-.049182	.0037153	139.0223	1.136851
#3	.5618962	-.044059	.0691327	-.042225	.0100307	139.2966	1.137935

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052249	.0001360	25.71012	.2892171	.1536520	.3024039	306.1256
Stddev	.0001573	.0002209	.13101	.0026419	.0007242	.0047148	.8163
%RSD	3.010287	162.4404	.5095483	.9134742	.4713221	1.559096	.2666501
#1	.0053789	-.000116	25.85185	.2915727	.1532955	.3077755	307.0681
#2	.0050645	.000297	25.59347	.2863606	.1531751	.2989510	305.6586
#3	.0052312	.000227	25.68504	.2897178	.1544853	.3004852	305.6500

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.481488	69.78170	.2712660	-.029608	1.146260	.6705613	.3884780
Stddev	.019222	.24531	.0015188	.000441	.309588	.0061269	.0021915
%RSD	.2965633	.3515392	.5598910	1.488395	27.00850	.9136949	.5641268
#1	6.495849	69.90085	.2698809	-.029126	.973743	.6728665	.3865540
#2	6.459652	69.49957	.2710269	-.029989	.961367	.6636162	.3908635
#3	6.488963	69.94468	.2728901	-.029710	1.503669	.6752012	.3880165

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.297238	3.419215	.3067181	-.001891	.3710679	6.107542	.0057136
Stddev	.089838	.007169	.0016664	.000158	.0054718	.016103	.0019376
%RSD	1.426627	.2096688	.5433000	8.340873	1.474618	.2636559	33.91275
#1	6.374871	3.412103	.3085231	-.002047	.3756995	6.117762	.0048886
#2	6.318009	3.419103	.3052382	-.001732	.3724740	6.088980	.0043250
#3	6.198834	3.426440	.3063930	-.001894	.3650303	6.115885	.0079272

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-10DLX2 Acquired: 10/18/2024 17:30:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.698518	.1304270	.3182063
Stddev	.006265	.0014214	.0010440
%RSD	.2321799	1.089796	.3280964
#1	2.705716	.1318498	.3194093
#2	2.694290	.1304241	.3176723
#3	2.695549	.1290070	.3175372

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1080.337	24293.90	2965.198	946.5295	1708.378
Stddev	1.394	37.24	11.221	4.5430	1.051
%RSD	.1290660	.1532935	.3784318	.4799677	.0615390
#1	1078.945	24251.34	2952.691	947.8523	1707.646
#2	1080.331	24309.84	2974.385	941.4718	1709.582
#3	1081.734	24320.52	2968.516	950.2643	1707.905

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-11DLX2 Acquired: 10/18/2024 17:35:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6014448	-.035011	1.022023	-.045425	.0178947	93.86334	.8971064
Stddev	.0052680	.005924	.005260	.004118	.0024577	.39627	.0049228
%RSD	.8758834	16.91973	.5146735	9.065468	13.73450	.4221758	.5487405
#1	.5966751	-.035541	1.016011	-.047562	.0191229	94.18408	.9024630
#2	.6005602	-.040652	1.024279	-.040678	.0194963	93.98560	.8960755
#3	.6070990	-.028840	1.025778	-.048035	.0150650	93.42035	.8927807

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054474	.0076613	8.944875	.1984294	.1253427	2.782898	268.5459
Stddev	.0001535	.0002191	.077722	.0072483	.0013726	.006719	1.3400
%RSD	2.817258	2.859865	.8688982	3.652813	1.095057	.2414399	.4989778
#1	.0053922	.0074083	8.989703	.1900703	.1237936	2.787103	269.5310
#2	.0053292	.0077824	8.989793	.2022457	.1258272	2.786441	269.0866
#3	.0056208	.0077930	8.855130	.2029721	.1264073	2.775149	267.0200

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.473040	31.59057	.1601061	-.019697	1.027487	.4714401	.7887337
Stddev	.043117	.29535	.0007309	.003251	.234576	.0115350	.0260540
%RSD	.5769615	.9349445	.4565175	16.50484	22.83008	2.446764	3.303275
#1	7.503101	31.70479	.1593556	-.023435	1.183833	.4816731	.7587700
#2	7.492379	31.81177	.1601472	-.018122	1.140868	.4737075	.8013815
#3	7.423639	31.25517	.1608156	-.017533	.757760	.4589397	.8060495

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.90911	5.090338	.2652404	.0023699	.4898821	5.340272	.0115360
Stddev	.06626	.026976	.0035280	.0000906	.0055542	.038650	.0011149
%RSD	.3699553	.5299526	1.330106	3.820901	1.133788	.7237385	9.664563
#1	17.97508	5.071839	.2680283	.0024731	.4846646	5.313873	.0110042
#2	17.84257	5.077885	.2664188	.0023036	.4957208	5.384634	.0128172
#3	17.90969	5.121292	.2612740	.0023331	.4892610	5.322309	.0107865

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-11DLX2 Acquired: 10/18/2024 17:35:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.614614	.0702582	.1085725
Stddev	.012859	.0027518	.0006108
%RSD	.4917995	3.916745	.5625486
#1	2.626707	.0732286	.1092774
#2	2.616027	.0677958	.1082396
#3	2.601107	.0697500	.1082006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1046.835	24069.53	2897.450	943.0891	1753.700
Stddev	2.381	724.21	16.486	26.6577	3.937
%RSD	.2274943	3.008806	.5689686	2.826639	.2245185
#1	1048.633	24905.64	2896.493	973.8691	1758.157
#2	1047.738	23638.60	2881.464	927.4178	1752.249
#3	1044.134	23664.35	2914.393	927.9805	1750.694

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-12DLX2 Acquired: 10/18/2024 17:39:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2581914	-.028881	.1501754	-.033834	.0094120	104.2592	1.091684
Stddev	.0119373	.002223	.0043842	.004834	.0010514	1.2092	.013612
%RSD	4.623435	7.697229	2.919364	14.28864	11.17043	1.159800	1.246910
#1	.2638631	-.028464	.1552329	-.034947	.0106022	104.4654	1.094098
#2	.2444756	-.031284	.1478390	-.028540	.0090242	102.9601	1.077027
#3	.2662354	-.026897	.1474542	-.038015	.0086097	105.3520	1.103929

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057697	.0146509	11.55536	.1864573	.1282445	1.864099	240.3170
Stddev	.0001083	.0001085	.17318	.0009933	.0010571	.017229	2.8712
%RSD	1.877624	.7406050	1.498692	.5327237	.8243057	.9242611	1.194736
#1	.0058657	.0145964	11.60380	.1853333	.1291174	1.863122	240.7570
#2	.0057911	.0145805	11.36312	.1872170	.1270691	1.847379	237.2513
#3	.0056523	.0147759	11.69917	.1868217	.1285469	1.881796	242.9428

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.452780	30.14411	.1677684	-.023632	1.107102	.4245890	.9148834
Stddev	.117711	.43267	.0018095	.000470	.331337	.0136203	.0077315
%RSD	1.392573	1.435342	1.078547	1.987755	29.92836	3.207880	.8450824
#1	8.461574	30.19624	.1680404	-.023501	1.398111	.4168063	.9062689
#2	8.330918	29.68774	.1658384	-.023241	1.176702	.4166446	.9171612
#3	8.565848	30.54836	.1694265	-.024153	.746493	.4403161	.9212202

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.51571	3.819127	.2372729	.0017036	.4374210	4.478600	.0054267
Stddev	.24554	.059664	.0024244	.0001600	.0086692	.053031	.0014669
%RSD	1.401853	1.562250	1.021768	9.391734	1.981882	1.184091	27.03164
#1	17.52348	3.839728	.2383091	.0016468	.4275137	4.490716	.0039229
#2	17.26637	3.751892	.2345026	.0015799	.4436151	4.420560	.0055035
#3	17.75727	3.865761	.2390070	.0018843	.4411342	4.524525	.0068537

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-12DLX2 Acquired: 10/18/2024 17:39:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.440913	.0895969	.1320832
Stddev	.031157	.0015527	.0015480
%RSD	1.276431	1.732973	1.171969
#1	2.437346	.0898719	.1325324
#2	2.411694	.0879251	.1303603
#3	2.473700	.0909938	.1333569

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1067.567	23892.62	2930.083	939.1477	1765.373
Stddev	11.857	37.01	32.337	5.2862	20.714
%RSD	1.110675	.1549116	1.103613	.5628709	1.173329
#1	1062.000	23855.74	2920.833	945.1973	1757.674
#2	1081.183	23892.36	2966.037	936.8272	1788.834
#3	1059.517	23929.76	2903.379	935.4187	1749.612

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-13DLX2 Acquired: 10/18/2024 17:43:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1106415	-.027692	.0832487	-.030451	.0054084	103.7648	.8892681
Stddev	.0020434	.002163	.0057876	.005236	.0018569	.1530	.0019224
%RSD	1.846876	7.810542	6.952153	17.19339	34.33355	.1474963	.2161776
#1	.1119519	-.028544	.0777136	-.034531	.0074613	103.6027	.8898299
#2	.1082870	-.025233	.0827729	-.032275	.0038461	103.7850	.8871273
#3	.1116856	-.029300	.0892594	-.024548	.0049178	103.9068	.8908470

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048626	.0039494	13.70057	.3690025	.1037825	.2924426	205.9019
Stddev	.0000933	.0001378	.02337	.0001195	.0009567	.0028670	.3575
%RSD	1.919226	3.489011	.1705822	.0323915	.9218126	.9803455	.1736023
#1	.0047677	.0039703	13.67419	.3688763	.1045068	.2913424	205.7802
#2	.0048658	.0038023	13.71868	.3690173	.1026981	.2902888	205.6211
#3	.0049542	.0040755	13.70883	.3691140	.1041427	.2956967	206.3043

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.730832	32.56305	.1627917	-.019430	.9298712	.3796823	.7467431
Stddev	.004768	.06855	.0005717	.000585	.2508416	.0092625	.0041821
%RSD	.1007765	.2105121	.3511911	3.012894	26.97595	2.439540	.5600508
#1	4.725965	32.49191	.1631969	-.019808	1.187177	.3888897	.7447855
#2	4.731037	32.56857	.1621378	-.018756	.686037	.3797915	.7438987
#3	4.735493	32.62868	.1630406	-.019727	.916400	.3703657	.7515450

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.41448	2.625309	.2068976	.0023554	.3834581	4.422230	.0071013
Stddev	.04880	.013128	.0013376	.0001093	.0054083	.026980	.0034417
%RSD	.3930601	.5000594	.6465275	4.642247	1.410398	.6101061	48.46530
#1	12.40562	2.639454	.2078693	.0022720	.3774428	4.407124	.0096319
#2	12.46710	2.622956	.2074515	.0024792	.3850128	4.406186	.0031823
#3	12.37072	2.613516	.2053719	.0023149	.3879188	4.453379	.0084898

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-13DLX2 Acquired: 10/18/2024 17:43:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.261059	.0862426	.1454848
Stddev	.004942	.0003181	.0004182
%RSD	.2185825	.3688233	.2874399
#1	2.259130	.0858849	.1452910
#2	2.257373	.0864935	.1451986
#3	2.266675	.0863496	.1459647

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1041.057	23397.24	2859.103	917.9540	1755.525
Stddev	3.153	61.58	9.760	4.1147	3.334
%RSD	.3028522	.2632026	.3413566	.4482500	.1899211
#1	1039.830	23362.17	2861.555	915.2614	1753.635
#2	1044.638	23361.20	2867.403	922.6905	1759.375
#3	1038.701	23468.34	2848.351	915.9100	1753.565

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-14DLX2 Acquired: 10/18/2024 17:48:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1525769	-.026616	.0665371	-.037423	.0086758	101.4361	.7813095
Stddev	.0053998	.001712	.0015170	.002406	.0020509	.0947	.0016871
%RSD	3.539049	6.434157	2.279986	6.429348	23.63935	.0933148	.2159341
#1	.1473077	-.026899	.0650311	-.039128	.0098929	101.3305	.7794233
#2	.1580984	-.028169	.0665153	-.038471	.0098265	101.4648	.7826746
#3	.1523246	-.024779	.0680649	-.034671	.0063079	101.5131	.7818306

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037999	-.000847	12.02569	2.510216	.0891045	.2299678	220.1164
Stddev	.0001563	.000052	.07086	.006309	.0003802	.0030043	.1004
%RSD	4.114074	6.126337	.5892462	.2513283	.4266645	1.306423	.0456232
#1	.0039058	-.000848	12.02746	2.502942	.0888017	.2293508	220.2117
#2	.0038735	-.000898	11.95396	2.513511	.0895312	.2332327	220.1260
#3	.0036203	-.000794	12.09565	2.514196	.0889807	.2273198	220.0115

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.121749	44.90769	.2223921	-.020217	1.314178	.3515081	.5679461
Stddev	.005090	.06221	.0011093	.000393	.309076	.0020719	.0021140
%RSD	.0714686	.1385334	.4987963	1.945299	23.51856	.5894241	.3722231
#1	7.119266	44.95691	.2230041	-.020490	1.137254	.3491636	.5679410
#2	7.127603	44.92840	.2211116	-.019766	1.134216	.3530927	.5700627
#3	7.118376	44.83777	.2230606	-.020394	1.671063	.3522680	.5658346

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.145730	2.388312	.2158624	.0279617	.2712236	5.418386	.0099020
Stddev	.059363	.007264	.0006543	.0004636	.0051230	.014409	.0011564
%RSD	.8307419	.3041285	.3031072	1.657849	1.888831	.2659324	11.67857
#1	7.193273	2.393907	.2151483	.0278464	.2707698	5.430448	.0093730
#2	7.079195	2.380103	.2160060	.0275666	.2663427	5.402430	.0091048
#3	7.164721	2.390927	.2164330	.0284720	.2765584	5.422280	.0112284

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-14DLX2 Acquired: 10/18/2024 17:48:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9742853	.0813838	.1227234
Stddev	.0012382	.0019214	.0003170
%RSD	.1270884	2.360891	.2583435
#1	.9729193	.0802510	.1225374
#2	.9746025	.0836023	.1230894
#3	.9753340	.0802982	.1225433

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1008.393	22966.90	2780.094	879.9118	1757.039
Stddev	2.360	85.84	8.971	3.8459	3.622
%RSD	.2339889	.3737565	.3226781	.4370824	.2061417
#1	1010.553	23018.72	2769.880	878.1725	1753.641
#2	1008.752	22867.82	2786.694	877.2428	1760.850
#3	1005.875	23014.16	2783.707	884.3202	1756.627

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-15DLX2 Acquired: 10/18/2024 17:52:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3366133	-.046477	.1607193	-.046860	.0095908	158.0777	1.281748
Stddev	.0085229	.003773	.0043662	.002007	.0026077	.2304	.002704
%RSD	2.531952	8.118117	2.716676	4.283304	27.19017	.1457712	.2109747
#1	.3283807	-.043872	.1570708	-.045393	.0065900	157.8652	1.278856
#2	.3360599	-.044754	.1655569	-.049147	.0108744	158.3226	1.282174
#3	.3453995	-.050803	.1595302	-.046040	.0113079	158.0454	1.284214

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068355	.0023536	31.69221	.4294920	.1985413	.5531428	336.3022
Stddev	.0002132	.0001668	.13217	.0011777	.0006193	.0015706	.9465
%RSD	3.118559	7.086013	.4170277	.2742063	.3119506	.2839438	.2814290
#1	.0066814	.0022160	31.57809	.4281325	.1992265	.5514908	335.3560
#2	.0067463	.0023057	31.83702	.4301987	.1980212	.5546168	337.2489
#3	.0070788	.0025391	31.66152	.4301449	.1983764	.5533207	336.3017

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.624828	68.98122	.4232844	-.030362	1.418729	.6485079	.5921335
Stddev	.033087	.34532	.0015912	.000265	.195631	.0067502	.0011223
%RSD	.3836285	.5005956	.3759205	.8726084	13.78918	1.040888	.1895364
#1	8.605708	68.93975	.4220377	-.030114	1.215214	.6549490	.5909307
#2	8.663034	69.34541	.4227389	-.030641	1.605385	.6490887	.5931526
#3	8.605743	68.65852	.4250766	-.030331	1.435587	.6414860	.5923172

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.40716	5.987082	.3391300	-.000394	.7224769	4.875372	.0097497
Stddev	.06538	.003896	.0006656	.000439	.0078644	.030828	.0007351
%RSD	.2301512	.0650687	.1962729	111.4405	1.088531	.6323239	7.540142
#1	28.34012	5.991478	.3391440	-.000214	.7172318	4.843435	.0097676
#2	28.47074	5.985708	.3397885	-.000895	.7186795	4.877726	.0090058
#3	28.41064	5.984059	.3384574	-.000074	.7315194	4.904956	.0104758

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-15DLX2 Acquired: 10/18/2024 17:52:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.605058	.1264124	.2098220
Stddev	.003814	.0014234	.0002089
%RSD	.1058067	1.126026	.0995580
#1	3.609460	.1265238	.2100271
#2	3.602987	.1277768	.2096095
#3	3.602727	.1249365	.2098294

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1063.444	24175.32	2965.516	945.5963	1695.915
Stddev	1.404	38.52	14.116	3.9750	4.758
%RSD	.1320519	.1593300	.4760090	.4203732	.2805835
#1	1062.231	24136.26	2981.122	942.4227	1696.635
#2	1064.983	24176.40	2961.785	944.3114	1700.272
#3	1063.119	24213.28	2953.640	950.0549	1690.837

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-16DLX2 Acquired: 10/18/2024 17:57:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2690434	-.041329	.1164190	-.038981	.0083330	162.9853	1.187636
Stddev	.0056682	.005918	.0063721	.006881	.0025004	1.0161	.007572
%RSD	2.106785	14.31823	5.473381	17.65353	30.00526	.6234595	.6375667
#1	.2751350	-.038067	.1231364	-.046016	.0058961	164.0870	1.194640
#2	.2639247	-.048160	.1156604	-.038662	.0082107	162.7838	1.188666
#3	.2680704	-.037761	.1104602	-.032264	.0108923	162.0849	1.179601

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069769	.0012257	35.62357	.4017968	.1753287	.3985377	307.4496
Stddev	.0001088	.0004148	.28410	.0006893	.0011896	.0021315	2.6085
%RSD	1.559455	33.83981	.7975016	.1715570	.6784833	.5348265	.8484177
#1	.0069508	.0008038	35.93257	.4019979	.1752029	.3994279	310.4527
#2	.0070964	.0012403	35.56448	.4010293	.1742070	.3961054	306.1487
#3	.0068835	.0016329	35.37367	.4023632	.1765762	.4000797	305.7475

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.607462	68.62621	.3992323	-.028059	1.351237	.5859356	.4943876
Stddev	.064481	.57711	.0004935	.000611	.159770	.0052061	.0021680
%RSD	.8476046	.8409422	.1236107	2.176416	11.82397	.8885174	.4385159
#1	7.681229	69.28250	.3987439	-.028759	1.529803	.5911279	.4940216
#2	7.579334	68.39814	.3992222	-.027635	1.302101	.5807157	.4967153
#3	7.561823	68.19799	.3997307	-.027784	1.221805	.5859631	.4924260

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.26559	5.294301	.3114819	-.001349	.5383549	5.245035	.0062029
Stddev	.12227	.021727	.0036518	.000763	.0071265	.037877	.0009526
%RSD	.4484268	.4103906	1.172384	56.57967	1.323758	.7221548	15.35763
#1	27.39573	5.279746	.3156608	-.001139	.5460215	5.287287	.0055163
#2	27.24790	5.283882	.3089047	-.000713	.5319323	5.233695	.0058018
#3	27.15313	5.319276	.3098803	-.002196	.5371109	5.214123	.0072904

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-16DLX2 Acquired: 10/18/2024 17:57:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.864190	.1276018	.1998762
Stddev	.018693	.0013006	.0014156
%RSD	.6526612	1.019249	.7082387
#1	2.884969	.1274359	.2013344
#2	2.858860	.1263922	.1997867
#3	2.848740	.1289774	.1985075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1065.161	24244.72	2956.176	945.2290	1692.331
Stddev	2.861	59.13	16.868	2.9822	3.959
%RSD	.2686122	.2438869	.5705874	.3155021	.2339221
#1	1065.189	24269.79	2937.489	945.2609	1695.529
#2	1068.008	24177.18	2960.765	942.2309	1693.562
#3	1062.286	24287.18	2970.275	948.1951	1687.903

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-17DLX2 Acquired: 10/18/2024 18:01:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2692993	-.049011	.0951430	-.042437	.0095042	177.0681	1.093315
Stddev	.0137055	.002689	.0090748	.006607	.0055812	.3345	.002956
%RSD	5.089312	5.487182	9.538096	15.56892	58.72310	.1888973	.2703417
#1	.2544748	-.046055	.0855131	-.049408	.0147079	176.6828	1.091090
#2	.2815090	-.051313	.1035358	-.041635	.0101949	177.2841	1.092187
#3	.2719141	-.049666	.0963800	-.036268	.0036099	177.2373	1.096669

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072169	-.000014	34.98546	.4132559	.1684597	.3212850	324.0617
Stddev	.0000563	.000134	.12047	.0158881	.0004409	.0020359	.9053
%RSD	.7795032	929.1120	.3443434	3.844606	.2616964	.6336653	.2793642
#1	.0072771	-.000161	34.84666	.4132576	.1687789	.3235419	323.5360
#2	.0071657	.000101	35.04685	.3973671	.1686435	.3195869	325.1071
#3	.0072078	.000016	35.06286	.4291432	.1679567	.3207260	323.5421

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.712638	70.01517	.3950972	-.029181	1.507308	.5830591	.4789418
Stddev	.020182	.19684	.0001608	.003449	.253055	.0050770	.0176169
%RSD	.3006561	.2811433	.0407080	11.81960	16.78856	.8707555	3.678292
#1	6.689412	69.90224	.3951133	-.028591	1.786552	.5781860	.4787199
#2	6.722607	70.24246	.3949289	-.032888	1.442211	.5826733	.4614369
#3	6.725896	69.90080	.3952494	-.026066	1.293160	.5883180	.4966685

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.39285	4.993723	.3284800	-.001206	.3978138	3.601861	.0058188
Stddev	.05743	.013731	.0024966	.000134	.0052506	.015313	.0012168
%RSD	.2261485	.2749598	.7600429	11.07986	1.319856	.4251541	20.91189
#1	25.32938	4.990333	.3261270	-.001189	.4038127	3.611206	.0068899
#2	25.44120	4.982005	.3310989	-.001348	.3955750	3.584189	.0044957
#3	25.40797	5.008831	.3282141	-.001082	.3940537	3.610189	.0060706

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-17DLX2 Acquired: 10/18/2024 18:01:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0C9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.074500	.1328727	.1959604
Stddev	.002441	.0014194	.0004129
%RSD	.0793885	1.068211	.2106998
#1	3.076892	.1330443	.1954849
#2	3.074596	.1341984	.1962284
#3	3.072013	.1313753	.1961679

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1065.722	24096.87	2935.523	944.4238	1695.940
Stddev	3.073	755.72	10.139	29.3632	4.066
%RSD	.2883269	3.136165	.3453847	3.109108	.2397584
#1	1065.773	24002.51	2927.196	945.2860	1696.159
#2	1068.769	24895.33	2932.558	973.3463	1699.892
#3	1062.624	23392.76	2946.813	914.6390	1691.769

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-18DLX2 Acquired: 10/18/2024 18:05:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3233887	-.045045	.0897500	-.047107	.0089825	167.1396	1.021109
Stddev	.0047227	.002799	.0062692	.004038	.0052046	1.5750	.009706
%RSD	1.460376	6.212701	6.985205	8.572395	57.94165	.9423128	.9505345
#1	.3215175	-.041831	.0940084	-.043645	.0149445	168.1114	1.028463
#2	.3198882	-.046943	.0926905	-.046134	.0053467	167.9850	1.024757
#3	.3287602	-.046361	.0825510	-.051543	.0066563	165.3225	1.010108

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066616	-.000070	34.62604	.4509350	.1624920	.3188343	318.6696
Stddev	.0003107	.000119	.47818	.0017116	.0004840	.0013593	3.5971
%RSD	4.663394	169.4677	1.380980	.3795570	.2978860	.4263198	1.128776
#1	.0063037	.000010	34.77845	.4518890	.1619367	.3197619	320.6630
#2	.0068193	-.000207	35.00944	.4519569	.1628246	.3194670	320.8286
#3	.0068618	-.000014	34.09024	.4489590	.1627147	.3172740	314.5172

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.171549	67.85849	.4063841	-.028435	1.678475	.5856685	.4459323
Stddev	.074053	.82398	.0004991	.000434	.188818	.0067732	.0018266
%RSD	1.199908	1.214268	.1228199	1.525560	11.24937	1.156495	.4096089
#1	6.207665	68.26891	.4068563	-.028205	1.630361	.5920173	.4455738
#2	6.220613	68.39666	.4058619	-.028935	1.886695	.5864497	.4443115
#3	6.086367	66.90990	.4064340	-.028165	1.518369	.5785386	.4479115

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.52396	5.010062	.3242522	-.001063	.3855560	5.130284	.0036813
Stddev	.16305	.016741	.0032892	.000504	.0026211	.062701	.0022884
%RSD	.7238932	.3341485	1.014396	47.34780	.6798114	1.222166	62.16463
#1	22.65849	5.019804	.3239057	-.001551	.3852049	5.174543	.0026749
#2	22.57077	4.990731	.3277010	-.000545	.3831282	5.157775	.0020685
#3	22.34263	5.019651	.3211500	-.001095	.3883349	5.058534	.0063004

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-18DLX2 Acquired: 10/18/2024 18:05:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.027090	.1273847	.1906588
Stddev	.028657	.0021262	.0016101
%RSD	.9466687	1.669147	.8444651
#1	3.045256	.1276857	.1918078
#2	3.041959	.1293445	.1913499
#3	2.994055	.1251241	.1888185

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1067.774	24120.13	2956.792	940.6963	1701.897
Stddev	2.815	40.96	32.924	1.1448	4.676
%RSD	.2636733	.1698090	1.113502	.1217023	.2747564
#1	1069.060	24092.83	2932.719	939.8870	1704.262
#2	1069.717	24100.34	2943.346	942.0062	1704.918
#3	1064.545	24167.23	2994.311	940.1957	1696.511

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCV015 Acquired: 10/18/2024 18:10:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV015 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.921773	4.763141	24.04168	4.706853	4.707156	403.8478	9.947078
Stddev	.025514	.025439	.06727	.032145	.021744	1.3705	.019693
%RSD	.5183824	.5340802	.2798021	.6829468	.4619311	.3393605	.1979786
#1	4.894443	4.757692	23.97199	4.671256	4.683860	404.9024	9.958374
#2	4.944964	4.790863	24.10623	4.715541	4.710694	402.2987	9.924339
#3	4.925913	4.740867	24.04681	4.733761	4.726914	404.3424	9.958522

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4975536	2.427588	403.3812	15.12299	2.466016	14.75718	403.4399
Stddev	.0050110	.009357	1.9793	.00440	.008930	.06175	1.5776
%RSD	1.007128	.3854283	.4906763	.0290646	.3621231	.4184361	.3910424
#1	.5022385	2.417327	405.3322	15.11873	2.456939	14.76906	405.0860
#2	.4922702	2.435648	401.3747	15.12272	2.474792	14.69035	401.9411
#3	.4981521	2.429787	403.4366	15.12751	2.466319	14.81213	403.2926

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.75864	404.8798	2.449764	1.264944	407.3076	2.486522	13.91099
Stddev	.07069	1.7377	.010011	.002773	2.0296	.019653	.04045
%RSD	.4789721	.4291842	.4086550	.2192030	.4983027	.7903901	.2908120
#1	14.80904	406.2971	2.441060	1.267425	409.0700	2.500842	13.89492
#2	14.67784	402.9411	2.460704	1.261951	405.0885	2.464116	13.95701
#3	14.78905	405.4011	2.447528	1.265457	407.7641	2.494608	13.88103

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.0757	4.964481	5.216441	4.689437	4.958946	4.975519	4.850649
Stddev	.4091	.028067	.046850	.020258	.022676	.041609	.022741
%RSD	.2726159	.5653624	.8981163	.4319971	.4572670	.8362784	.4688328
#1	150.1796	4.934885	5.259975	4.666811	4.945285	5.015059	4.831669
#2	149.6247	4.990717	5.166863	4.695607	4.985122	4.932111	4.875855
#3	150.4229	4.967842	5.222486	4.705892	4.946432	4.979387	4.844423

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCV015 Acquired: 10/18/2024 18:10:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV015 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.929740	5.084927	4.982650
Stddev	.021416	.027856	.013287
%RSD	.4344245	.5478223	.2666669
#1	4.941197	5.106662	4.985036
#2	4.905033	5.053525	4.968331
#3	4.942991	5.094595	4.994582

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	806.3983	20349.91	2544.396	671.7664	1437.085
Stddev	2.8436	30.88	12.144	3.6584	4.518
%RSD	.3526307	.1517387	.4772804	.5445970	.3144082
#1	809.6767	20374.72	2531.021	674.0759	1441.150
#2	804.9174	20315.33	2554.732	667.5484	1432.220
#3	804.6008	20359.67	2547.435	673.6750	1437.885

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCB015 Acquired: 10/18/2024 18:14:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB015 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001929	-.001621	.0009859	-.005786	.0010141	.0860445	-.001223
Stddev	.003642	.004329	.0004890	.001535	.0013334	.0066092	.001011
%RSD	188.8276	267.0460	49.59383	26.52414	131.4831	7.681201	82.65047
#1	.002207	.001662	.0010865	-.005854	.0005985	.0839938	-.001385
#2	-.004656	.000002	.0004545	-.007285	.0025059	.0934361	-.002144
#3	-.003336	-.006528	.0014167	-.004218	-.000062	.0807037	-.000141

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000037	.0001340	.0389618	.0009930	.0004560	-.000008	.0149600
Stddev	.000013	.0000325	.0107865	.0008182	.0002621	.003125	.0211190
%RSD	35.21611	24.21644	27.68489	82.39324	57.49110	39796.55	141.1701
#1	-.000027	.0001457	.0492051	.0001053	.0007330	.002936	-.001425
#2	-.000031	.0001590	.0277037	.0011570	.0002119	-.003286	.007511
#3	-.000052	.0000974	.0399765	.0017168	.0004229	.000327	.038794

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014231	.0246900	.0003556	-.000206	.2088471	-.001446	.0014847
Stddev	.0005241	.0805153	.0003112	.000506	.2982518	.004896	.0004759
%RSD	36.82935	326.1047	87.50739	245.7852	142.8087	338.4857	32.05374
#1	.0010632	.0068336	.0000046	.000340	-.134716	-.004767	.0010556
#2	.0020244	.1126345	.0004645	-.000299	.401299	-.003748	.0014019
#3	.0011817	-.045398	.0005976	-.000658	.359958	.004176	.0019965

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.361411	.0014090	.0046674	.0003458	-.002100	.0021601	.0008351
Stddev	.047657	.0010705	.0011263	.0001246	.003919	.0005259	.0014905
%RSD	13.18633	75.98015	24.13129	36.03365	186.5970	24.34412	178.4749
#1	-.370838	.0009899	.0036687	.0004060	-.002297	.0015804	.0012022
#2	-.403650	.0026256	.0044454	.0004288	.001913	.0022934	-.000805
#3	-.309745	.0006114	.0058882	.0002025	-.005917	.0026065	.002108

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCB015 Acquired: 10/18/2024 18:14:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB015 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000826	.0117329	.0002461
Stddev	.001713	.0013647	.0001027
%RSD	207.4924	11.63120	41.73996
#1	.000773	.0130953	.0001344
#2	-.002634	.0117375	.0003365
#3	-.000617	.0103660	.0002673

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	991.0428	22073.62	2678.755	875.1558	1852.754
Stddev	1.6412	63.71	41.420	3.7793	3.495
%RSD	.1656079	.2886391	1.546224	.4318468	.1886215
#1	989.9409	22000.54	2672.993	870.8042	1853.720
#2	992.9290	22117.48	2722.754	877.6161	1855.664
#3	990.2584	22102.84	2640.518	877.0471	1848.878

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-19DLX2 Acquired: 10/18/2024 18:19:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3577575	-.038498	.1912196	-.042567	.0138610	91.96952	1.108467
Stddev	.0017063	.004076	.0017754	.004766	.0033803	.19992	.004578
%RSD	.4769473	10.58879	.9284471	11.19728	24.38731	.2173711	.4130144
#1	.3593489	-.033791	.1893552	-.048005	.0155243	92.15387	1.108607
#2	.3559558	-.040834	.1928900	-.040580	.0099713	91.75702	1.103821
#3	.3579679	-.040868	.1914135	-.039115	.0160874	91.99767	1.112974

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059766	.0025026	17.51922	.2711491	.1331520	.5571348	286.6173
Stddev	.0000400	.0002707	.02828	.0012088	.0003335	.0036275	.7749
%RSD	.6696934	10.81732	.1614397	.4457954	.2504395	.6510982	.2703466
#1	.0060048	.0022504	17.54359	.2718144	.1333141	.5553345	287.5068
#2	.0059308	.0024688	17.48821	.2718791	.1327685	.5613103	286.0888
#3	.0059942	.0027886	17.52585	.2697539	.1333734	.5547595	286.2563

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.007941	40.29863	.2905141	-.026340	1.471683	.5596138	.4866715
Stddev	.003601	.09258	.0010568	.000429	.316796	.0046103	.0030110
%RSD	.0599449	.2297455	.3637768	1.627373	21.52613	.8238384	.6186909
#1	6.011859	40.39825	.2915327	-.025979	1.106054	.5629443	.4897020
#2	6.007190	40.28245	.2894228	-.026814	1.664343	.5543519	.4866322
#3	6.004774	40.21521	.2905869	-.026228	1.644651	.5615451	.4836804

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.28256	4.560050	.2878478	.0004576	.4942070	4.789905	.0060013
Stddev	.26421	.006710	.0025238	.0002972	.0041902	.019534	.0007014
%RSD	1.445139	.1471509	.8767964	64.95261	.8478652	.4078204	11.68653
#1	18.05999	4.552339	.2897897	.0007132	.4966855	4.802123	.0059332
#2	18.21315	4.563248	.2887588	.0001315	.4893690	4.800217	.0067343
#3	18.57455	4.564564	.2849949	.0005282	.4965664	4.767376	.0053365

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-19DLX2 Acquired: 10/18/2024 18:19:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.080666	.0879898	.1575837
Stddev	.009702	.0017141	.0006398
%RSD	.3149327	1.948054	.4060311
#1	3.080319	.0889833	.1577721
#2	3.071143	.0889755	.1568709
#3	3.090537	.0860105	.1581082

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1052.956	23990.55	2900.232	936.8703	1734.686
Stddev	1.374	65.63	10.726	5.3619	2.186
%RSD	.1304740	.2735490	.3698225	.5723227	.1260028
#1	1053.521	23914.80	2889.232	930.8218	1736.687
#2	1053.957	24026.66	2900.803	938.7490	1732.354
#3	1051.389	24030.20	2910.661	941.0401	1735.018

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-20DLX2 Acquired: 10/18/2024 18:23:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2543408	-.035456	.1349963	-.044549	.0091216	99.21102	1.077097
Stddev	.0103648	.001454	.0052708	.002924	.0031840	1.19298	.012223
%RSD	4.075157	4.099735	3.904371	6.563364	34.90578	1.202469	1.134814
#1	.2433392	-.033846	.1328289	-.047298	.0090093	99.90932	1.083240
#2	.2557609	-.035850	.1410053	-.041477	.0123602	99.89021	1.085031
#3	.2639223	-.036672	.1311549	-.044873	.0059952	97.83352	1.063021

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057227	.0007544	17.35998	.2712262	.1389824	.3639279	267.0934
Stddev	.0002026	.0001280	.27331	.0004576	.0010213	.0100189	3.3475
%RSD	3.539654	16.96344	1.574350	.1687312	.7348591	2.752988	1.253320
#1	.0058098	.0006502	17.48968	.2710844	.1387405	.3657704	269.2720
#2	.0058671	.0007158	17.54430	.2708563	.1381038	.3728976	268.7693
#3	.0054912	.0008972	17.04598	.2717380	.1401030	.3531156	263.2389

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.728800	40.93488	.2857729	-.025438	1.190085	.4824954	.4346188
Stddev	.080326	.48698	.0021202	.000303	.141130	.0039250	.0014343
%RSD	1.402148	1.189654	.7419327	1.189748	11.85883	.8134869	.3300143
#1	5.780037	41.25061	.2848264	-.025495	1.352145	.4865739	.4342099
#2	5.770138	41.17999	.2842907	-.025111	1.094215	.4821680	.4334334
#3	5.636223	40.37404	.2882015	-.025708	1.123896	.4787443	.4362132

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.48078	3.647278	.2673105	.0007425	.4160609	4.348494	.0069895
Stddev	.23615	.007291	.0016794	.0005594	.0050456	.029852	.0013351
%RSD	1.350889	.1998925	.6282574	75.34118	1.212701	.6864827	19.10112
#1	17.54757	3.648438	.2682921	.0012967	.4105322	4.376759	.0073250
#2	17.67633	3.639477	.2682680	.0007528	.4172337	4.351447	.0055187
#3	17.21843	3.653920	.2653713	.0001780	.4204168	4.317276	.0081249

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-20DLX2 Acquired: 10/18/2024 18:23:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.148226	.0920347	.1520409
Stddev	.032406	.0016201	.0019687
%RSD	1.029345	1.760329	1.294828
#1	3.164716	.0938658	.1530626
#2	3.169072	.0914508	.1532886
#3	3.110892	.0907874	.1497714

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1061.738	23995.19	2917.481	935.8553	1744.432
Stddev	1.861	77.45	22.413	2.5579	3.402
%RSD	.1752370	.3227683	.7682420	.2733174	.1950050
#1	1060.373	23990.66	2904.058	938.6609	1746.680
#2	1063.858	23920.11	2905.029	935.2518	1746.097
#3	1060.984	24074.81	2943.355	933.6531	1740.519

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-21DLX2 Acquired: 10/18/2024 18:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2663588	-.042957	.1171626	-.043605	.0075420	129.7482	1.335635
Stddev	.0128279	.003769	.0039258	.009210	.0011139	.5598	.000574
%RSD	4.816002	8.773652	3.350699	21.12203	14.76960	.4314620	.0429530
#1	.2545980	-.038839	.1129517	-.042315	.0069314	129.1175	1.336262
#2	.2800377	-.046236	.1178146	-.053392	.0088278	130.1864	1.335505
#3	.2644407	-.043796	.1207215	-.035108	.0068669	129.9407	1.335137

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070225	-.000014	22.38866	.4096096	.1641129	.3094676	292.8755
Stddev	.0001316	.000309	.12614	.0007712	.0002140	.0007999	1.6393
%RSD	1.873760	2280.469	.5634206	.1882731	.1304252	.2584638	.5597253
#1	.0069025	.000186	22.24302	.4088830	.1642020	.3088260	291.0012
#2	.0071632	.000143	22.46347	.4104187	.1638686	.3092130	293.5833
#3	.0070019	-.000369	22.45949	.4095270	.1642679	.3103638	294.0420

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.023166	47.61026	.3451448	-.027295	1.341817	.5530819	.4094970
Stddev	.048442	.26355	.0009182	.000668	.266245	.0033903	.0014320
%RSD	.6897428	.5535672	.2660314	2.446488	19.84213	.6129758	.3496839
#1	6.969167	47.31416	.3459349	-.027290	1.083971	.5510100	.4081015
#2	7.037527	47.81918	.3441375	-.026630	1.325745	.5512414	.4109628
#3	7.062803	47.69743	.3453621	-.027966	1.615734	.5569944	.4094268

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.78065	4.211320	.2970444	.0011663	.5206648	4.714097	.0073364
Stddev	.09697	.009641	.0016558	.0004578	.0070462	.003733	.0029482
%RSD	.4666249	.2289304	.5574359	39.24952	1.353310	.0791965	40.18555
#1	20.67952	4.202470	.2960180	.0006433	.5162337	4.710066	.0042108
#2	20.78960	4.221594	.2961606	.0014942	.5287899	4.717436	.0100674
#3	20.87284	4.209897	.2989546	.0013614	.5169707	4.714789	.0077311

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-21DLX2 Acquired: 10/18/2024 18:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.284813	.1148375	.1853602
Stddev	.017655	.0021470	.0000763
%RSD	.5374766	1.869616	.0411615
#1	3.264435	.1125918	.1853296
#2	3.295495	.1168699	.1854471
#3	3.294510	.1150508	.1853040

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1074.588	24225.12	2942.542	954.1176	1723.466
Stddev	.648	38.46	7.552	3.1868	1.971
%RSD	.0602630	.1587673	.2566529	.3340016	.1143803
#1	1074.180	24259.08	2949.339	957.3597	1722.696
#2	1074.248	24183.35	2934.412	954.0038	1721.997
#3	1075.334	24232.92	2943.873	950.9892	1725.706

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-22DLX2 Acquired: 10/18/2024 18:32:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2694872	-.032414	.0890451	-.034456	.0100272	119.1392	1.016334
Stddev	.0066503	.004089	.0030472	.005055	.0025925	.0780	.002123
%RSD	2.467747	12.61426	3.422137	14.67208	25.85490	.0654915	.2088557
#1	.2754458	-.028941	.0877459	-.033025	.0129481	119.1693	1.013884
#2	.2707029	-.036920	.0925266	-.030270	.0079991	119.0506	1.017629
#3	.2623130	-.031380	.0868627	-.040072	.0091343	119.1977	1.017489

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061756	.0000820	18.36627	.3010290	.1218798	.2302708	260.9375
Stddev	.0001413	.0001129	.03761	.0003718	.0011452	.0048769	.4962
%RSD	2.287545	137.5855	.2047662	.1235013	.9396142	2.117900	.1901545
#1	.0063286	.0001347	18.33915	.3013978	.1215222	.2248509	260.9284
#2	.0061481	-.000048	18.40920	.3010348	.1209560	.2316571	260.4459
#3	.0060501	.000159	18.35045	.3006543	.1231611	.2343045	261.4381

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.350416	39.86492	.2807551	-.024617	1.160671	.4969458	.3711377
Stddev	.006933	.10539	.0009995	.000508	.282103	.0072985	.0022190
%RSD	.1295719	.2643687	.3560078	2.065135	24.30516	1.468679	.5978961
#1	5.351522	39.76696	.2808675	-.024044	1.265145	.4885308	.3693184
#2	5.342996	39.85136	.2797042	-.024796	.841234	.5015530	.3704847
#3	5.356729	39.97643	.2816937	-.025013	1.375634	.5007536	.3736099

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.34090	3.334791	.2643639	.0000310	.4810300	3.149185	.0045332
Stddev	.05685	.006842	.0020743	.0003218	.0089671	.003795	.0010578
%RSD	.3278177	.2051807	.7846254	1039.805	1.864137	.1205042	23.33396
#1	17.27916	3.341836	.2667000	.0002761	.4889817	3.148750	.0057545
#2	17.35247	3.334364	.2627381	-.000333	.4713109	3.145626	.0039374
#3	17.39108	3.328171	.2636536	.000150	.4827976	3.153179	.0039077

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4291-22DLX2 Acquired: 10/18/2024 18:32:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.938868	.0961489	.1495849
Stddev	.006238	.0022554	.0005239
%RSD	.2122739	2.345765	.3502362
#1	2.932164	.0937111	.1494616
#2	2.939935	.0981615	.1491337
#3	2.944504	.0965740	.1501595

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1055.038	23866.94	2898.699	936.5045	1730.337
Stddev	4.189	38.25	2.727	2.6925	3.260
%RSD	.3970240	.1602591	.0940792	.2875075	.1884008
#1	1050.490	23822.84	2895.812	939.5596	1727.001
#2	1058.738	23886.99	2899.052	935.4766	1730.493
#3	1055.885	23891.00	2901.232	934.4774	1733.516

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-01DLX2 Acquired: 10/18/2024 18:36:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3000673	-.033260	.1534251	-.045237	.0085477	102.7167	1.491753
Stddev	.0046913	.002216	.0055739	.007060	.0010955	4.7339	.066042
%RSD	1.563419	6.662596	3.632996	15.60621	12.81626	4.608675	4.427126
#1	.2949718	-.030796	.1493127	-.053385	.0097902	99.2560	1.444653
#2	.3010227	-.033896	.1597691	-.041373	.0077209	108.1114	1.567243
#3	.3042073	-.035089	.1511936	-.040952	.0081320	100.7829	1.463364

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056359	.0015667	20.38351	.2603383	.1446099	.4384577	274.3043
Stddev	.0002463	.0005619	.96543	.0018244	.0002017	.0211274	13.1633
%RSD	4.370489	35.86161	4.736320	.7007953	.1394588	4.818566	4.798795
#1	.0055083	.0021095	19.70132	.2613471	.1448427	.4202807	264.3856
#2	.0059198	.0009876	21.48815	.2582323	.1444866	.4616375	289.2380
#3	.0054795	.0016030	19.96104	.2614357	.1445006	.4334551	269.2895

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.13378	41.01695	.2971960	-.027251	1.073232	.5167874	.4492106
Stddev	.59002	1.95135	.0010332	.000903	.179813	.0267850	.0023515
%RSD	4.862635	4.757433	.3476529	3.314706	16.75433	5.182975	.5234823
#1	11.70275	39.64526	.2960261	-.026228	.868743	.4906720	.4479660
#2	12.80623	43.25090	.2975780	-.027941	1.206636	.5441951	.4477430
#3	11.89236	40.15469	.2979838	-.027583	1.144317	.5154950	.4519229

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.90323	4.344634	.2721202	-.000343	.5120642	4.344387	.0068851
Stddev	.90662	.001738	.0141683	.000261	.0096029	.188605	.0004847
%RSD	4.796100	.0400122	5.206613	75.97754	1.875336	4.341341	7.039205
#1	18.29381	4.344950	.2615574	-.000227	.5040620	4.193994	.0069269
#2	19.94510	4.342760	.2882210	-.000161	.5094176	4.555995	.0063809
#3	18.47077	4.346194	.2665822	-.000642	.5227128	4.283172	.0073475

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-01DLX2 Acquired: 10/18/2024 18:36:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0D5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.171062	.0930731	.1970180
Stddev	.147546	.0038419	.0087167
%RSD	4.652901	4.127844	4.424338
#1	3.063478	.0900201	.1902332
#2	3.339262	.0973870	.2068491
#3	3.110446	.0918124	.1939718

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1078.571	24434.38	2929.958	959.1670	1732.914
Stddev	1.933	58.91	119.934	2.6829	2.923
%RSD	.1792307	.2410959	4.093371	.2797114	.1686635
#1	1077.256	24388.78	3025.913	960.4345	1736.283
#2	1077.667	24413.46	2795.501	960.9812	1731.058
#3	1080.791	24500.89	2968.460	956.0851	1731.400

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-02DLX2 Acquired: 10/18/2024 18:41:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0S9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3141600	-.046363	.3711257	-.045646	.0140091	175.1595	.8589024
Stddev	.0082180	.004743	.0019330	.004126	.0031546	.2312	.0037302
%RSD	2.615851	10.22975	.5208371	9.038324	22.51852	.1320026	.4342959
#1	.3131056	-.051740	.3729165	-.050058	.0109325	175.0357	.8569891
#2	.3228542	-.044579	.3690765	-.041883	.0172364	175.4263	.8632010
#3	.3065201	-.042772	.3713841	-.044997	.0138583	175.0166	.8565170

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048408	.0080949	30.58272	.8642924	.2654753	1.367243	328.2872
Stddev	.0002504	.0001142	.02265	.0023866	.0010760	.006241	.4976
%RSD	5.172514	1.411106	.0740597	.2761309	.4053004	.4565008	.1515750
#1	.0051207	.0079637	30.60438	.8656931	.2666929	1.370993	328.0688
#2	.0046381	.0081727	30.58458	.8615367	.2650805	1.370698	328.8567
#3	.0047637	.0081482	30.55920	.8656473	.2646525	1.360038	327.9362

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.631546	100.5132	.5418996	-.023044	1.304968	.7379288	.7813770
Stddev	.013674	.4158	.0028276	.000278	.273630	.0021651	.0025303
%RSD	.2061991	.4136669	.5218017	1.207670	20.96835	.2934022	.3238208
#1	6.636523	100.1726	.5449170	-.023345	.989099	.7364884	.7824659
#2	6.642035	100.9765	.5393107	-.022988	1.469512	.7404187	.7784846
#3	6.616080	100.3905	.5414710	-.022797	1.456293	.7368794	.7831805

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.760432	2.434316	.3206700	-.001153	.7896901	3.865805	.0072679
Stddev	.042730	.010740	.0014731	.000415	.0052494	.026763	.0021997
%RSD	.4877585	.4412114	.4593815	35.98091	.6647368	.6923049	30.26599
#1	8.711968	2.446717	.3211595	-.001219	.7956557	3.881977	.0048665
#2	8.792683	2.427994	.3190145	-.000709	.7876369	3.880525	.0077519
#3	8.776644	2.428237	.3218361	-.001531	.7857776	3.834913	.0091852

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-02DLX2 Acquired: 10/18/2024 18:41:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0S9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.387374	.1135048	.1494184
Stddev	.005374	.0005895	.0005423
%RSD	.0997484	.5193552	.3629257
#1	5.381173	.1130207	.1495298
#2	5.390274	.1141613	.1498963
#3	5.390675	.1133325	.1488290

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1012.057	22964.23	2829.314	894.0767	1685.186
Stddev	3.378	12.48	10.909	3.3379	.418
%RSD	.3337465	.0543580	.3855532	.3733358	.0248246
#1	1011.803	22964.10	2822.838	893.7063	1684.870
#2	1015.555	22976.78	2823.196	897.5844	1685.660
#3	1008.814	22951.82	2841.909	890.9394	1685.027

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-03DLX2 Acquired: 10/18/2024 18:45:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1278492	-.040335	.0741303	-.040977	.0055263	152.2993	.6796075
Stddev	.0078712	.000835	.0021120	.002255	.0022812	.9079	.0034739
%RSD	6.156600	2.070318	2.849003	5.503031	41.27887	.5961091	.5111595
#1	.1189239	-.039771	.0746682	-.043302	.0072480	151.6801	.6766777
#2	.1337981	-.041294	.0759213	-.040829	.0029390	151.8764	.6786996
#3	.1308257	-.039939	.0718014	-.038800	.0063918	153.3415	.6834452

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042869	.0005364	28.15566	.7728100	.2113048	.6267060	280.9966
Stddev	.0000356	.0002560	.08607	.0009421	.0005655	.0044924	1.5798
%RSD	.8303937	47.73042	.3056796	.1218997	.2676153	.7168227	.5622128
#1	.0042612	.0007938	28.08276	.7738478	.2110952	.6299999	279.5909
#2	.0043275	.0005336	28.13360	.7720088	.2119451	.6215886	280.6926
#3	.0042720	.0002818	28.25060	.7725732	.2108739	.6285295	282.7063

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.867183	82.02733	.4566096	-.021095	1.503057	.6352427	.3379269
Stddev	.036226	.80368	.0010337	.000395	.195565	.0186341	.0038787
%RSD	.7442834	.9797699	.2263974	1.871399	13.01114	2.933388	1.147796
#1	4.843822	81.25303	.4554159	-.021550	1.664367	.6281919	.3417298
#2	4.848813	81.97148	.4572110	-.020835	1.559259	.6211628	.3339766
#3	4.908913	82.85748	.4572019	-.020902	1.285545	.6563733	.3380743

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.662830	1.373725	.2774478	-.001656	.6066704	4.945888	.0055153
Stddev	.096030	.008734	.0005370	.000261	.0019391	.053363	.0024230
%RSD	2.621746	.6358135	.1935668	15.73343	.3196350	1.078935	43.93291
#1	3.773714	1.363910	.2779188	-.001953	.6057951	4.910387	.0082420
#2	3.606829	1.376624	.2768630	-.001468	.6053231	4.920023	.0036088
#3	3.607946	1.380641	.2775615	-.001546	.6088929	5.007255	.0046952

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-03DLX2 Acquired: 10/18/2024 18:45:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.439788	.0973272	.1243714
Stddev	.023705	.0012191	.0006455
%RSD	.5339182	1.252554	.5190087
#1	4.427545	.0966800	.1239565
#2	4.424708	.0965682	.1240426
#3	4.467111	.0987334	.1251151

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1009.069	22793.91	2780.032	893.7438	1712.631
Stddev	2.676	20.27	26.202	4.0734	3.224
%RSD	.2651552	.0889241	.9424918	.4557717	.1882561
#1	1010.808	22809.36	2803.151	889.4432	1713.755
#2	1005.988	22770.96	2785.375	897.5438	1708.996
#3	1010.411	22801.41	2751.571	894.2442	1715.143

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-04DLX2 Acquired: 10/18/2024 18:49:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1249903	-.050894	.0681758	-.048361	.0082538	183.7051	.6492291
Stddev	.0064318	.002922	.0022165	.001100	.0055673	.7758	.0019397
%RSD	5.145815	5.740420	3.251117	2.274342	67.45212	.4223056	.2987709
#1	.1241441	-.050496	.0705516	-.048079	.0030865	184.5883	.6512044
#2	.1190235	-.053994	.0678123	-.047429	.0075253	183.3930	.6473271
#3	.1318033	-.048192	.0661636	-.049574	.0141495	183.1340	.6491559

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048935	-.000709	37.12209	1.008785	.2437421	.7756165	345.0687
Stddev	.0000792	.000070	.20127	.004353	.0025798	.0015469	1.5187
%RSD	1.617937	9.836631	.5421708	.4314719	1.058420	.1994428	.4401162
#1	.0048123	-.000782	37.35434	1.006495	.2429550	.7738424	346.7925
#2	.0048978	-.000704	36.99865	1.006056	.2416475	.7766835	344.4856
#3	.0049705	-.000642	37.01329	1.013805	.2466237	.7763237	343.9279

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.371618	104.1946	.5591150	-.024416	1.454046	.7106737	.3548616
Stddev	.026914	.1856	.0062805	.000646	.318708	.0085684	.0001852
%RSD	.5010394	.1781630	1.123293	2.644789	21.91868	1.205666	.0521855
#1	5.402342	104.0765	.5598209	-.024587	1.647317	.7038178	.3549839
#2	5.360308	104.0987	.5525114	-.024959	1.628628	.7079240	.3549524
#3	5.352205	104.4085	.5650128	-.023702	1.086192	.7202793	.3546486

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.532597	1.309356	.3370327	-.002318	.5099952	6.148862	.0045653
Stddev	.037185	.014898	.0009035	.000584	.0090950	.011575	.0016455
%RSD	1.468242	1.137833	.2680736	25.17665	1.783345	.1882413	36.04433
#1	2.496182	1.311930	.3380562	-.001645	.5168650	6.161080	.0030042
#2	2.531103	1.293339	.3363461	-.002637	.5134394	6.138061	.0062840
#3	2.570506	1.322800	.3366958	-.002674	.4996811	6.147444	.0044077

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-04DLX2 Acquired: 10/18/2024 18:49:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	6.592910	.1033425	.1439920
Stddev	.024206	.0022535	.0002187
%RSD	.3671511	2.180608	.1519063
#1	6.620632	.1026972	.1442438
#2	6.582139	.1014820	.1438484
#3	6.575959	.1058482	.1438839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	997.0613	22674.35	2783.810	880.8494	1690.714
Stddev	7.5395	40.26	3.527	3.1346	15.297
%RSD	.7561704	.1775449	.1266867	.3558602	.9047814
#1	993.2014	22720.69	2779.860	878.7478	1685.559
#2	1005.749	22648.04	2784.927	879.3483	1707.923
#3	992.233	22654.31	2786.644	884.4523	1678.660

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-05DLX2 Acquired: 10/18/2024 18:54:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1363344	-.049027	.0585274	-.047802	.0121664	188.6126	.6680724
Stddev	.0115937	.002273	.0062264	.007281	.0036134	.4649	.0013093
%RSD	8.503841	4.635263	10.63848	15.23064	29.70025	.2464783	.1959878
#1	.1488600	-.046404	.0519675	-.041192	.0107207	188.1207	.6680682
#2	.1259796	-.050257	.0643557	-.046608	.0162788	189.0447	.6693838
#3	.1341636	-.050418	.0592591	-.055605	.0094996	188.6725	.6667652

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046142	-.000954	42.01226	1.095790	.2920266	.8036174	354.9156
Stddev	.0003396	.000280	.13017	.004512	.0003425	.0017422	.4343
%RSD	7.360622	29.34882	.3098329	.4117626	.1172803	.2167990	.1223776
#1	.0049032	-.000635	41.87823	1.100967	.2916464	.8042790	354.5342
#2	.0042401	-.001068	42.13818	1.093703	.2923109	.8049319	355.3884
#3	.0046991	-.001159	42.02037	1.092699	.2921224	.8016413	354.8243

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.871732	98.48214	.5494723	-.023344	1.585732	.6857687	.3260242
Stddev	.017883	.15627	.0003379	.000324	.075280	.0162595	.0029928
%RSD	.3045634	.1586818	.0615034	1.389864	4.747345	2.370989	.9179608
#1	5.853150	98.39464	.5492054	-.023593	1.589898	.6980309	.3257878
#2	5.888823	98.66256	.5493590	-.023461	1.658843	.6673250	.3231566
#3	5.873222	98.38922	.5498523	-.022977	1.508456	.6919502	.3291281

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.299965	1.101745	.3421766	-.001005	.5503323	5.465273	.0047133
Stddev	.031936	.001319	.0008244	.001476	.0096669	.022703	.0005718
%RSD	1.388538	.1197342	.2409196	146.7711	1.756558	.4154118	12.13100
#1	2.313380	1.103081	.3425925	-.002107	.5422563	5.468293	.0044752
#2	2.263510	1.100443	.3412271	-.001580	.5610436	5.486315	.0042991
#3	2.323006	1.101713	.3427101	.000671	.5476971	5.441210	.0053657

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-05DLX2 Acquired: 10/18/2024 18:54:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.314132	.1093659	.1446192
Stddev	.020722	.0012034	.0003165
%RSD	.2492425	1.100345	.2188773
#1	8.302089	.1082685	.1444150
#2	8.338060	.1106528	.1449839
#3	8.302247	.1091763	.1444587

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	984.4100	22514.87	2750.695	877.8754	1681.046
Stddev	2.0107	26.96	11.348	7.7428	6.012
%RSD	.2042545	.1197334	.4125626	.8819969	.3576159
#1	982.2524	22508.33	2750.079	879.3474	1674.393
#2	984.7463	22544.49	2739.668	884.7765	1682.657
#3	986.2314	22491.78	2762.339	869.5022	1686.088

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-06DLX2 Acquired: 10/18/2024 18:58:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1458777	-.046981	.0921054	-.049589	.0116343	186.7973	.8323471
Stddev	.0062807	.000555	.0047045	.005781	.0023230	.8413	.0021451
%RSD	4.305445	1.181823	5.107744	11.65776	19.96722	.4503772	.2577126
#1	.1467649	-.047048	.0881968	-.043465	.0098249	187.7670	.8348238
#2	.1516676	-.047499	.0973269	-.050350	.0108240	186.2633	.8311378
#3	.1392006	-.046395	.0907925	-.054952	.0142539	186.3615	.8310797

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053020	.0004331	33.46374	.9310107	.2641074	.7478619	339.6687
Stddev	.0002753	.0002977	.31488	.0018719	.0016197	.0011183	1.8948
%RSD	5.191732	68.72711	.9409535	.2010556	.6132755	.1495260	.5578334
#1	.0052660	.0002866	33.80977	.9323796	.2622373	.7491401	341.7690
#2	.0055935	.0007757	33.38739	.9288777	.2650220	.7473811	339.1495
#3	.0050465	.0002371	33.19405	.9317748	.2650631	.7470644	338.0876

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.876754	96.70392	.5458996	-.025453	1.673209	.7715562	.4234784
Stddev	.044172	.68675	.0013652	.000153	.143306	.0081181	.0019873
%RSD	.7516352	.7101563	.2500887	.6028605	8.564712	1.052178	.4692800
#1	5.921785	97.44049	.5468487	-.025609	1.761633	.7785584	.4248675
#2	5.874983	96.08124	.5443350	-.025302	1.507867	.7734525	.4243657
#3	5.833495	96.59002	.5465151	-.025449	1.750126	.7626578	.4212021

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.296740	1.668434	.3326410	-.001899	.7919344	6.629425	.0072133
Stddev	.167219	.011844	.0010643	.000702	.0066369	.028541	.0037363
%RSD	3.891770	.7098925	.3199435	36.96880	.8380663	.4305234	51.79725
#1	4.120119	1.670581	.3335821	-.002675	.7937775	6.653988	.0104206
#2	4.317480	1.655663	.3314860	-.001306	.7845707	6.636173	.0031107
#3	4.452622	1.679057	.3328548	-.001717	.7974549	6.598115	.0081086

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-06DLX2 Acquired: 10/18/2024 18:58:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.015802	.1156755	.1494967
Stddev	.021922	.0037132	.0009181
%RSD	.4370643	3.209992	.6141014
#1	5.041112	.1199631	.1505413
#2	5.002777	.1135242	.1488181
#3	5.003517	.1135392	.1491306

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1010.879	22966.49	2825.801	895.5548	1688.283
Stddev	1.695	89.79	15.488	3.3432	2.519
%RSD	.1676531	.3909718	.5480943	.3733062	.1491932
#1	1008.926	22862.82	2809.925	892.4546	1685.386
#2	1011.962	23019.72	2826.608	895.1129	1689.954
#3	1011.749	23016.93	2840.870	899.0970	1689.509

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-07DLX2 Acquired: 10/18/2024 19:03:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3400044	-.033828	.2765390	-.038607	.0059032	108.7937	1.337557
Stddev	.0080382	.003129	.0020906	.009957	.0019014	.1955	.003139
%RSD	2.364155	9.249429	.7559889	25.79177	32.20982	.1796692	.2346523
#1	.3356067	-.031170	.2749008	-.049686	.0043640	108.9679	1.341174
#2	.3492819	-.037276	.2788936	-.035729	.0053169	108.5823	1.335545
#3	.3351244	-.033036	.2758225	-.030406	.0080287	108.8309	1.335953

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052722	.0031383	253.7653	.2273684	.1401038	.9420849	252.2241
Stddev	.0001801	.0000949	.5688	.0010804	.0014457	.0023896	.8460
%RSD	3.416471	3.023669	.2241611	.4751889	1.031866	.2536470	.3354220
#1	.0054711	.0032465	253.6750	.2278829	.1387361	.9419674	252.5426
#2	.0051201	.0030987	253.2470	.2261268	.1416165	.9445310	251.2651
#3	.0052254	.0030696	254.3739	.2280953	.1399589	.9397562	252.8647

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.62004	51.99517	.2797196	-.017087	1.052450	.4862554	.6511269
Stddev	.02084	.14225	.0004616	.000299	.119165	.0021594	.0046555
%RSD	.1651424	.2735817	.1650307	1.749790	11.32262	.4440869	.7149956
#1	12.61148	52.11907	.2792235	-.017299	.953058	.4883459	.6554524
#2	12.60484	52.02659	.2801364	-.017217	1.019737	.4840331	.6461999
#3	12.64380	51.83983	.2797990	-.016745	1.184554	.4863871	.6517284

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.59281	6.593867	.2669369	-.001286	1.694697	5.798496	.0038214
Stddev	.03319	.018077	.0024917	.000252	.001180	.006689	.0013587
%RSD	.1611568	.2741413	.9334360	19.57851	.0696356	.1153603	35.55412
#1	20.55468	6.609048	.2652085	-.001255	1.694625	5.805157	.0038258
#2	20.61512	6.598683	.2658092	-.001050	1.693554	5.798553	.0051778
#3	20.60865	6.573871	.2697931	-.001551	1.695911	5.791779	.0024605

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-07DLX2 Acquired: 10/18/2024 19:03:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.183444	.1087155	.2114333
Stddev	.006213	.0020814	.0007432
%RSD	.2845314	1.914584	.3514805
#1	2.189351	.1086390	.2121868
#2	2.176965	.1066734	.2107010
#3	2.184015	.1108342	.2114121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1025.752	23436.50	2867.977	913.9094	1631.922
Stddev	1.628	42.33	4.244	6.0007	3.352
%RSD	.1587054	.1806326	.1479665	.6565915	.2054144
#1	1024.595	23419.03	2863.105	911.1947	1629.712
#2	1025.048	23484.77	2869.965	920.7876	1630.276
#3	1027.613	23405.69	2870.862	909.7458	1635.780

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-08DLX2 Acquired: 10/18/2024 19:07:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3003977	-.029669	.1933138	-.027838	.0054421	89.48726	1.147242
Stddev	.0111449	.000686	.0007109	.008201	.0023229	.24531	.002738
%RSD	3.710049	2.313314	.3677622	29.46099	42.68336	.2741268	.2386859
#1	.3025442	-.030461	.1937250	-.037217	.0070399	89.63571	1.149117
#2	.2883357	-.029300	.1937235	-.024283	.0065089	89.62195	1.144099
#3	.3103132	-.029247	.1924928	-.022014	.0027774	89.20411	1.148509

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044753	.0022925	239.0848	.1937482	.1078720	.4031882	202.0143
Stddev	.0000786	.0003322	1.0383	.0006854	.0003587	.0013376	1.0741
%RSD	1.756374	14.48953	.4342727	.3537343	.3325354	.3317606	.5316852
#1	.0045617	.0019942	239.8730	.1932996	.1075108	.4043060	202.9888
#2	.0044080	.0022329	239.4732	.1945371	.1078772	.4017062	202.1914
#3	.0044561	.0026505	237.9084	.1934078	.1082281	.4035524	200.8627

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.888113	41.99752	.2245250	-.013085	1.026774	.4103747	.4854784
Stddev	.044292	.26391	.0011219	.000770	.181661	.0063595	.0010549
%RSD	.5614972	.6283947	.4996547	5.885417	17.69239	1.549669	.2172814
#1	7.921840	42.19440	.2238508	-.013968	.819237	.4042490	.4844504
#2	7.904546	42.10053	.2258201	-.012732	1.104141	.4169446	.4865582
#3	7.837954	41.69764	.2239042	-.012555	1.156943	.4099304	.4854265

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.58160	4.845715	.2123679	-.000943	.8472777	5.782730	.0029150
Stddev	.11777	.013227	.0020400	.000397	.0018073	.017486	.0047106
%RSD	.8076900	.2729588	.9606132	42.09600	.2133084	.3023836	161.5973
#1	14.63471	4.844551	.2132263	-.000523	.8460219	5.797754	.0082522
#2	14.44662	4.833108	.2138385	-.000993	.8464622	5.786900	-.000662
#3	14.66346	4.859485	.2100389	-.001312	.8493491	5.763536	.001155

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-08DLX2 Acquired: 10/18/2024 19:07:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.010995	.0881662	.1830248
Stddev	.002816	.0008845	.0010891
%RSD	.1400095	1.003250	.5950790
#1	2.013493	.0883149	.1842461
#2	2.007944	.0889670	.1826742
#3	2.011548	.0872168	.1821542

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1013.662	23138.37	2823.124	902.4855	1641.930
Stddev	3.853	19.26	9.203	3.3337	1.985
%RSD	.3800974	.0832283	.3259911	.3693858	.1208944
#1	1013.777	23158.75	2818.536	906.1627	1641.862
#2	1017.457	23120.47	2817.116	899.6612	1643.948
#3	1009.754	23135.89	2833.719	901.6324	1639.980

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-09DLX2 Acquired: 10/18/2024 19:11:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4236381	-.038201	.1264742	-.044972	.0086843	119.2795	1.167433
Stddev	.0144191	.004380	.0048184	.007673	.0018115	.2052	.000981
%RSD	3.403633	11.46514	3.809806	17.06074	20.85920	.1720632	.0840293
#1	.4087312	-.037121	.1320154	-.051280	.0095031	119.0507	1.168069
#2	.4246691	-.043020	.1241383	-.047206	.0066080	119.3403	1.167927
#3	.4375140	-.034462	.1232690	-.036431	.0099419	119.4474	1.166303

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056171	.0014645	390.3132	.2494890	.1380280	.2981955	255.1017
Stddev	.0000296	.0001961	1.7017	.0016060	.0006008	.0040119	1.2041
%RSD	.5272917	13.38955	.4359942	.6437330	.4352839	1.345402	.4719914
#1	.0056508	.0015453	388.3501	.2490080	.1377464	.3014059	253.7221
#2	.0056051	.0016073	391.2192	.2512806	.1376197	.2936980	255.9407
#3	.0055953	.0012409	391.3703	.2481785	.1387179	.2994827	255.6423

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.105739	53.57193	.3008035	-.015302	1.141132	.5272797	.4097043
Stddev	.041754	.18853	.0013602	.000911	.138044	.0084599	.0013491
%RSD	.5876122	.3519186	.4521774	5.951662	12.09711	1.604436	.3292829
#1	7.057764	53.35436	.3023689	-.015054	1.208991	.5212234	.4090187
#2	7.133877	53.67435	.2999101	-.014540	1.232114	.5236700	.4112586
#3	7.125575	53.68708	.3001316	-.016310	.982293	.5369457	.4088358

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.50749	5.176060	.2670230	-.000913	.7921468	5.900538	-.000528
Stddev	.08366	.007481	.0037341	.000735	.0100180	.027363	.001149
%RSD	.4778787	.1445284	1.398436	80.48708	1.264664	.4637291	217.5410
#1	17.41463	5.176815	.2633626	-.000207	.8009231	5.871542	.000750
#2	17.53086	5.168230	.2668797	-.000858	.7942849	5.904166	-.001473
#3	17.57699	5.183134	.2708268	-.001673	.7812324	5.925905	-.000862

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-09DLX2 Acquired: 10/18/2024 19:11:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.572189	.1162233	.2480112
Stddev	.003767	.0020223	.0005703
%RSD	.1464459	1.740006	.2299546
#1	2.570659	.1185438	.2474835
#2	2.576481	.1152887	.2486162
#3	2.569428	.1148373	.2479338

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1007.492	23088.96	2842.218	894.4254	1591.987
Stddev	1.968	162.21	16.982	3.7301	.448
%RSD	.1953625	.7025594	.5974862	.4170375	.0281487
#1	1009.756	23080.34	2860.567	892.9606	1592.423
#2	1006.194	22931.23	2839.033	891.6500	1591.527
#3	1006.524	23255.31	2827.055	898.6655	1592.010

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-10DLX2 Acquired: 10/18/2024 19:16:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4067717	-.037622	.1007586	-.038559	.0082645	112.1100	1.318689
Stddev	.0146552	.002473	.0038823	.006129	.0027252	.1335	.001031
%RSD	3.602811	6.574065	3.853035	15.89430	32.97431	.1190937	.0781968
#1	.3904452	-.038772	.1051525	-.045572	.0052803	111.9991	1.317918
#2	.4187896	-.039311	.0977922	-.034231	.0088920	112.2582	1.319860
#3	.4110805	-.034783	.0993310	-.035875	.0106212	112.0727	1.318290

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054005	.0013996	351.8197	.2282591	.1382702	.2538389	247.2649
Stddev	.0001104	.0002698	.4880	.0006191	.0008599	.0027745	.4803
%RSD	2.044636	19.27467	.1387139	.2712073	.6219166	1.093007	.1942331
#1	.0053497	.0011046	351.5534	.2282128	.1382543	.2506579	247.0512
#2	.0055271	.0014604	352.3830	.2276645	.1391379	.2550995	247.8150
#3	.0053245	.0016337	351.5229	.2289000	.1374183	.2557593	246.9286

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.668288	51.60120	.2849802	-.016707	1.236925	.5174618	.3569359
Stddev	.010957	.19302	.0007425	.000422	.219692	.0105280	.0029692
%RSD	.1264061	.3740686	.2605574	2.523557	17.76115	2.034541	.8318548
#1	8.671338	51.38999	.2845499	-.017174	1.374327	.5055799	.3566054
#2	8.677398	51.76845	.2845531	-.016353	1.352901	.5211772	.3600565
#3	8.656129	51.64518	.2858376	-.016595	.983549	.5256284	.3541458

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.82383	4.698251	.2548741	-.001361	.5844293	4.583026	.0013572
Stddev	.07066	.006361	.0004284	.000393	.0093997	.010387	.0021129
%RSD	.4465649	.1353865	.1680699	28.87808	1.608350	.2266326	155.6825
#1	15.80150	4.692177	.2553377	-.001256	.5931823	4.591368	.0037203
#2	15.76703	4.704864	.2547915	-.001795	.5856108	4.586318	.0007007
#3	15.90296	4.697711	.2544930	-.001030	.5744947	4.571393	-.000350

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-10DLX2 Acquired: 10/18/2024 19:16:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.072440	.1109765	.2474363
Stddev	.005568	.0007656	.0006431
%RSD	.2686797	.6898941	.2599033
#1	2.073686	.1103235	.2466974
#2	2.077279	.1118191	.2477414
#3	2.066354	.1107870	.2478701

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1009.426	23265.05	2859.889	900.7578	1599.675
Stddev	1.571	34.72	7.607	6.2315	1.714
%RSD	.1555997	.1492350	.2659903	.6918090	.1071249
#1	1010.498	23304.25	2863.849	898.7039	1600.071
#2	1010.157	23238.17	2851.119	895.8126	1601.157
#3	1007.623	23252.74	2864.700	907.7571	1597.799

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-11DLX2 Acquired: 10/18/2024 19:20:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4912724	-.038750	.1226724	-.047994	.0118084	127.2791	1.285609
Stddev	.0149456	.004424	.0077257	.006227	.0009053	.1213	.000536
%RSD	3.042225	11.41544	6.297837	12.97428	7.666477	.0952850	.0416812
#1	.4981543	-.041458	.1193431	-.041032	.0108660	127.1393	1.286153
#2	.5015373	-.041148	.1315045	-.049918	.0126713	127.3559	1.285082
#3	.4741256	-.033646	.1171695	-.053032	.0118879	127.3420	1.285592

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061268	.0015655	352.5261	.2845119	.1549426	.3109153	271.9671
Stddev	.0002063	.0002703	.4635	.0031005	.0007407	.0054680	.4940
%RSD	3.367413	17.26343	.1314817	1.089749	.4780518	1.758668	.1816403
#1	.0060495	.0017036	352.2159	.2844689	.1546879	.3172275	271.5396
#2	.0059703	.0017388	353.0589	.2814332	.1557771	.3078882	272.5079
#3	.0063606	.0012541	352.3035	.2876337	.1543630	.3076303	271.8539

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.855004	59.83534	.3253110	-.018656	1.093740	.5770632	.4203134
Stddev	.013219	.20241	.0017930	.000127	.251298	.0077393	.0008507
%RSD	.1682856	.3382823	.5511662	.6822877	22.97603	1.341156	.2023982
#1	7.842053	59.64083	.3235140	-.018786	.904198	.5688851	.4194438
#2	7.868475	60.04482	.3253191	-.018649	.998233	.5780319	.4203526
#3	7.854484	59.82038	.3270999	-.018532	1.378790	.5842726	.4211438

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.56455	5.594776	.2793623	-.002382	.7319797	4.881344	.0020442
Stddev	.03582	.020311	.0004138	.000551	.0043965	.006259	.0019876
%RSD	.1929316	.3630302	.1481259	23.14874	.6006354	.1282269	97.23126
#1	18.59824	5.602194	.2796655	-.002841	.7357349	4.874229	.0032874
#2	18.56848	5.571799	.2795305	-.002536	.7271435	4.883802	.0030932
#3	18.52693	5.610335	.2788909	-.001770	.7330607	4.886001	-.000248

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-11DLX2 Acquired: 10/18/2024 19:20:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.242629	.1269295	.2358070
Stddev	.001230	.0013073	.0004715
%RSD	.0548669	1.029950	.1999362
#1	2.241210	.1255128	.2354643
#2	2.243276	.1280892	.2356120
#3	2.243401	.1271865	.2363446

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1017.394	23285.29	2877.471	901.2251	1595.733
Stddev	1.715	52.73	6.999	3.5652	3.881
%RSD	.1686022	.2264662	.2432382	.3955946	.2432392
#1	1018.795	23337.96	2884.687	903.8346	1597.111
#2	1017.905	23232.49	2870.711	902.6779	1598.737
#3	1015.481	23285.40	2877.015	897.1629	1591.350

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-12DLX2 Acquired: 10/18/2024 19:25:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2140807	-.040471	.1527513	-.042603	.0079367	132.8432	1.453682
Stddev	.0037423	.005660	.0055357	.005666	.0011321	1.0133	.012476
%RSD	1.748095	13.98538	3.623978	13.29989	14.26453	.7628094	.8582615
#1	.2145381	-.043123	.1464305	-.041616	.0084296	132.9011	1.451780
#2	.2175733	-.033972	.1567359	-.048698	.0087388	131.8022	1.442266
#3	.2101307	-.044317	.1550875	-.037495	.0066417	133.8264	1.467001

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067976	.0010703	36.37372	.3304065	.1815260	.4172499	315.0815
Stddev	.0002116	.0000611	.30648	.0008444	.0001522	.0021168	1.9058
%RSD	3.113245	5.712868	.8425747	.2555509	.0838260	.5073143	.6048613
#1	.0070419	.0011163	36.37002	.3294879	.1814208	.4149217	315.4484
#2	.0066776	.0010009	36.06911	.3311488	.1817005	.4177698	313.0190
#3	.0066732	.0010937	36.68203	.3305827	.1814567	.4190584	316.7773

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.39945	65.11289	.3060533	-.027839	1.292580	.6428299	.5717781
Stddev	.08407	.56844	.0004907	.000536	.082655	.0054736	.0003603
%RSD	.6274232	.8730106	.1603483	1.924484	6.394591	.8514801	.0630129
#1	13.40295	65.11211	.3060501	-.027243	1.209379	.6396734	.5721733
#2	13.31368	64.54483	.3055642	-.027995	1.374679	.6396660	.5716932
#3	13.48171	65.68171	.3065456	-.028280	1.293681	.6491502	.5714679

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.43430	5.089496	.3172256	-.001225	.5390477	6.222609	.0065390
Stddev	.17660	.006171	.0023392	.000596	.0075330	.065098	.0021728
%RSD	.7536061	.1212445	.7373976	48.66459	1.397472	1.046155	33.22745
#1	23.46850	5.086066	.3186589	-.001748	.5333138	6.223845	.0087725
#2	23.24310	5.085801	.3145262	-.001351	.5362500	6.156902	.0044326
#3	23.59130	5.096619	.3184917	-.000576	.5475793	6.287080	.0064120

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-12DLX2 Acquired: 10/18/2024 19:25:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0T9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.454444	.1124343	.2183515
Stddev	.010895	.0018713	.0017859
%RSD	.4438796	1.664329	.8178778
#1	2.456160	.1107524	.2181955
#2	2.442792	.1121004	.2166489
#3	2.464378	.1144500	.2202103

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1052.630	23776.11	2870.152	929.7907	1683.417
Stddev	1.132	97.31	24.152	4.5468	2.698
%RSD	.1075679	.4092655	.8414970	.4890175	.1602593
#1	1051.995	23667.22	2862.011	925.0649	1683.129
#2	1053.937	23806.54	2897.322	930.1728	1686.247
#3	1051.958	23854.56	2851.122	934.1344	1680.875

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-13DLX2 Acquired: 10/18/2024 19:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2595009	-.041658	.1306547	-.042730	.0086640	114.5303	.8630927
Stddev	.0081881	.003365	.0029076	.004428	.0021640	.4420	.0033119
%RSD	3.155314	8.078347	2.225428	10.36262	24.97722	.3859260	.3837293
#1	.2512706	-.039092	.1288953	-.042264	.0097988	114.1437	.8597611
#2	.2676461	-.040414	.1290580	-.038553	.0061686	114.4351	.8631326
#3	.2595859	-.045468	.1340108	-.047372	.0100247	115.0122	.8663846

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051083	.0010127	28.88731	.3011782	.1522066	.4595050	292.5163
Stddev	.0001001	.0002500	.10017	.0009534	.0007274	.0029731	1.1509
%RSD	1.958499	24.68325	.3467444	.3165662	.4778841	.6470217	.3934548
#1	.0050023	.0007534	28.78524	.3001429	.1516437	.4576378	291.3713
#2	.0051217	.0012522	28.89123	.3013717	.1519482	.4579437	292.5046
#3	.0052010	.0010324	28.98545	.3020200	.1530279	.4629335	293.6731

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.550471	57.72441	.2405711	-.025788	1.461579	.5790884	.4360594
Stddev	.042611	.28456	.0005628	.000268	.084197	.0117397	.0016631
%RSD	.4461664	.4929716	.2339544	1.040507	5.760691	2.027273	.3813983
#1	9.504918	57.41431	.2408289	-.025503	1.411789	.5728787	.4341753
#2	9.557143	57.78536	.2399255	-.026036	1.558792	.5926288	.4373235
#3	9.589353	57.97356	.2409588	-.025825	1.414156	.5717576	.4366793

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.83879	2.680542	.2911344	-.001127	.2941839	4.915116	.0051394
Stddev	.07080	.015489	.0022597	.000140	.0071017	.032484	.0018298
%RSD	.5514190	.5778373	.7761612	12.43593	2.414036	.6608961	35.60354
#1	12.75932	2.690416	.2887508	-.001220	.2989815	4.882147	.0070003
#2	12.89511	2.662690	.2932453	-.001196	.2975446	4.916109	.0033424
#3	12.86196	2.688519	.2914071	-.000966	.2860256	4.947092	.0050755

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-13DLX2 Acquired: 10/18/2024 19:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.309351	.0963090	.1596748
Stddev	.011077	.0015459	.0007288
%RSD	.4796629	1.605151	.4564315
#1	2.296952	.0969485	.1590857
#2	2.312830	.0945460	.1594488
#3	2.318271	.0974326	.1604898

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1037.205	23570.42	2860.164	931.4887	1714.812
Stddev	3.383	77.47	13.107	1.5245	5.006
%RSD	.3262079	.3286876	.4582644	.1636591	.2919111
#1	1038.467	23495.36	2870.804	932.5792	1717.021
#2	1039.776	23650.10	2864.165	929.7467	1718.333
#3	1033.372	23565.80	2845.523	932.1400	1709.082

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-14DLX2 Acquired: 10/18/2024 19:33:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3302252	-.046510	.2544263	-.063308	.0114382	126.0936	1.411936
Stddev	.0089951	.006175	.0012564	.003025	.0039752	.4300	.006062
%RSD	2.723941	13.27760	.4938234	4.777784	34.75380	.3409968	.4293085
#1	.3399788	-.052148	.2547806	-.063334	.0103705	125.8918	1.409014
#2	.3222560	-.047472	.2554675	-.060271	.0158383	126.5874	1.418905
#3	.3284407	-.039910	.2530308	-.066320	.0081059	125.8017	1.407890

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055772	.0040991	26.90110	.3556211	.2285658	.8969886	388.5264
Stddev	.0000591	.0000383	.08083	.0014107	.0005071	.0058163	.7120
%RSD	1.058939	.9349089	.3004830	.3966805	.2218668	.6484242	.1832655
#1	.0055158	.0040565	26.89888	.3564551	.2290161	.8906662	388.1682
#2	.0056336	.0041307	26.98303	.3539924	.2286647	.9021119	389.3464
#3	.0055823	.0041101	26.82141	.3564160	.2280165	.8981878	388.0646

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.95812	70.01865	.2980519	-.033357	1.425839	.7202454	.6202235
Stddev	.06160	.14228	.0011129	.000193	.327661	.0120829	.0036448
%RSD	.3632389	.2031994	.3734036	.5790346	22.98025	1.677613	.5876675
#1	16.92717	70.12517	.2988603	-.033475	1.058853	.7065156	.6194797
#2	17.02906	70.07372	.2985129	-.033134	1.529626	.7292587	.6170079
#3	16.91813	69.85707	.2967826	-.033462	1.689038	.7249619	.6241829

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.35926	3.582939	.3750057	.0018230	.2550135	4.915189	.0076268
Stddev	.06035	.021328	.0005686	.0003897	.0071363	.009871	.0016262
%RSD	.4203145	.5952585	.1516239	21.37595	2.798384	.2008236	21.32226
#1	14.29610	3.607286	.3747008	.0018497	.2477269	4.905514	.0071478
#2	14.41635	3.567560	.3756617	.0021987	.2619892	4.914809	.0094387
#3	14.36535	3.573970	.3746546	.0014207	.2553245	4.925245	.0062939

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-14DLX2 Acquired: 10/18/2024 19:33:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.307701	.1074835	.1864841
Stddev	.009363	.0011697	.0003002
%RSD	.4057192	1.088268	.1610029
#1	2.301631	.1061406	.1866941
#2	2.318484	.1082799	.1866180
#3	2.302989	.1080300	.1861402

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1041.484	23746.70	2877.658	931.7563	1712.124
Stddev	3.155	66.51	9.923	3.0972	3.449
%RSD	.3029215	.2800609	.3448452	.3324038	.2014283
#1	1038.623	23788.09	2886.845	934.4631	1708.154
#2	1044.867	23669.98	2867.134	932.4270	1714.371
#3	1040.961	23782.02	2878.994	928.3786	1713.849

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-15DLX2 Acquired: 10/18/2024 19:38:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2871887	-.049771	.1568780	-.056797	.0073507	148.6471	1.340807
Stddev	.0116992	.003713	.0026227	.009100	.0037318	.2521	.002559
%RSD	4.073706	7.460422	1.671808	16.02210	50.76753	.1695644	.1908405
#1	.2894029	-.052390	.1546297	-.066676	.0114434	148.8385	1.342277
#2	.2745407	-.051401	.1562449	-.054958	.0041367	148.7414	1.342291
#3	.2976227	-.045521	.1597593	-.048757	.0064720	148.3615	1.337852

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072396	.0012720	38.81812	.4103244	.2137855	.5024537	381.3197
Stddev	.0002346	.0000970	.12308	.0010508	.0009744	.0054247	.9262
%RSD	3.240214	7.627123	.3170739	.2560989	.4557615	1.079652	.2428929
#1	.0069689	.0012697	38.95703	.4094592	.2126995	.5055978	382.3587
#2	.0073834	.0013701	38.77468	.4100203	.2140742	.4961898	380.5808
#3	.0073665	.0011761	38.72264	.4114938	.2145829	.5055736	381.0195

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.06829	80.02629	.3480630	-.034243	1.810573	.7798641	.5404450
Stddev	.04212	.16228	.0017470	.000296	.193426	.0052190	.0029794
%RSD	.2993927	.2027884	.5019210	.8631543	10.68314	.6692207	.5512847
#1	14.11567	80.14272	.3470216	-.034582	1.931532	.7858441	.5370277
#2	14.05415	80.09523	.3500799	-.034042	1.912697	.7775207	.5418101
#3	14.03507	79.84092	.3470875	-.034105	1.587489	.7762276	.5424973

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.98522	3.971497	.3726898	-.001127	.3214629	5.814936	.0074728
Stddev	.16850	.012495	.0013128	.000386	.0047964	.022081	.0008646
%RSD	.9368996	.3146159	.3522560	34.23495	1.492069	.3797268	11.57011
#1	18.11618	3.981762	.3740432	-.001173	.3208930	5.801089	.0065854
#2	18.04435	3.957584	.3714217	-.000720	.3169768	5.840400	.0075204
#3	17.79512	3.975146	.3726046	-.001488	.3265188	5.803318	.0083126

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-15DLX2 Acquired: 10/18/2024 19:38:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.652227	.1296580	.2227580
Stddev	.011132	.0012082	.0005004
%RSD	.4197383	.9318776	.2246359
#1	2.657155	.1308842	.2228832
#2	2.660044	.1296213	.2231840
#3	2.639481	.1284685	.2222069

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1056.190	24071.47	2921.153	940.6998	1682.484
Stddev	.346	29.74	3.474	3.8994	2.643
%RSD	.0327506	.1235354	.1189392	.4145252	.1571026
#1	1055.982	24037.62	2923.441	944.1898	1679.481
#2	1056.589	24093.39	2917.155	941.4187	1684.460
#3	1055.998	24083.39	2922.862	936.4909	1683.510

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-16DLX2 Acquired: 10/18/2024 19:42:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W2D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2677747	-.047413	.1470482	-.054813	.0063964	138.3432	1.256238
Stddev	.0032044	.001765	.0052729	.003619	.0040715	1.2858	.013809
%RSD	1.196678	3.723413	3.585811	6.602088	63.65286	.9294574	1.099198
#1	.2709762	-.045375	.1456945	-.051499	.0080878	137.0296	1.241550
#2	.2677805	-.048396	.1425842	-.054266	.0017518	139.5994	1.268956
#3	.2645674	-.048467	.1528660	-.058674	.0093496	138.4006	1.258209

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065680	.0007891	35.51767	.3819519	.1968971	.4677681	352.2347
Stddev	.0001080	.0001374	.26694	.0002910	.0007645	.0032662	2.5099
%RSD	1.644864	17.41630	.7515677	.0761794	.3882893	.6982560	.7125661
#1	.0066328	.0009466	35.29883	.3820629	.1975145	.4689053	349.8143
#2	.0066279	.0007275	35.81507	.3816217	.1960419	.4703137	354.8255
#3	.0064433	.0006933	35.43909	.3821710	.1971349	.4640853	352.0643

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.99921	73.86354	.3201800	-.031415	1.343264	.7224709	.5062186
Stddev	.07785	.34665	.0008531	.000924	.123974	.0216860	.0021123
%RSD	.5989178	.4693181	.2664352	2.939982	9.229309	3.001642	.4172624
#1	12.92361	73.61910	.3197506	-.030523	1.201491	.7101058	.5058330
#2	13.07914	74.26027	.3211625	-.032367	1.431322	.7475111	.5043258
#3	12.99490	73.71124	.3196270	-.031357	1.396978	.7097959	.5084971

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.59178	3.669273	.3446705	-.000701	.3032062	5.371274	.0075510
Stddev	.23754	.007492	.0019648	.000665	.0106425	.045819	.0015641
%RSD	1.431695	.2041694	.5700600	94.76243	3.509989	.8530307	20.71324
#1	16.31759	3.665423	.3424452	-.001019	.3153682	5.355844	.0081706
#2	16.72233	3.677907	.3461661	-.001148	.2955995	5.422816	.0057721
#3	16.73542	3.664490	.3454001	.000062	.2986509	5.335163	.0087103

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: P4292-16DLX2 Acquired: 10/18/2024 19:42:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W2D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.468818	.1205880	.2076973
Stddev	.023086	.0017948	.0020747
%RSD	.9350946	1.488391	.9988951
#1	2.446227	.1186958	.2057751
#2	2.492368	.1222664	.2098966
#3	2.467860	.1208017	.2074203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1048.815	23818.59	2883.489	928.1739	1692.298
Stddev	1.952	60.50	15.987	3.3727	1.158
%RSD	.1860800	.2539933	.5544195	.3633743	.0684546
#1	1046.595	23770.73	2887.630	927.9201	1691.382
#2	1050.259	23886.59	2865.839	931.6663	1691.911
#3	1049.592	23798.45	2896.998	924.9352	1693.600

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCV016 Acquired: 10/18/2024 19:47:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV016 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.961412	4.744934	24.23926	4.713110	4.716164	405.7442	9.968238
Stddev	.008922	.025359	.11964	.034425	.032294	.8115	.018004
%RSD	.1798298	.5344443	.4935887	.7304163	.6847579	.1999911	.1806154
#1	4.964198	4.765204	24.29096	4.750327	4.740804	406.4261	9.974387
#2	4.968609	4.753100	24.32436	4.706596	4.728083	405.9598	9.982363
#3	4.951430	4.716498	24.10246	4.682407	4.679604	404.8468	9.947965

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5106571	2.449628	404.9402	15.12506	2.480823	14.69888	404.8523
Stddev	.0024818	.011141	1.0473	.00809	.009572	.03579	1.0227
%RSD	.4860097	.4547965	.2586290	.0534639	.3858530	.2434896	.2526178
#1	.5114527	2.455551	406.0977	15.13379	2.487032	14.69381	405.0178
#2	.5126436	2.456556	404.6646	15.11784	2.485638	14.73694	405.7821
#3	.5078750	2.436776	404.0583	15.12354	2.469799	14.66590	403.7568

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.72633	404.8480	2.467493	1.291381	407.6141	2.482454	14.01601
Stddev	.03062	.8187	.015346	.002883	1.0394	.025967	.05567
%RSD	.2078950	.2022211	.6219281	.2232169	.2550057	1.046038	.3972081
#1	14.74390	404.9846	2.473972	1.289785	408.8140	2.506952	13.96064
#2	14.74411	405.5898	2.478537	1.294708	406.9899	2.485177	14.01542
#3	14.69098	403.9696	2.449970	1.289649	407.0384	2.455232	14.07198

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	151.5817	4.941150	5.165279	4.701848	4.977300	4.999405	4.886908
Stddev	.4160	.019429	.024270	.028568	.039742	.023299	.024343
%RSD	.2744564	.3932051	.4698673	.6075877	.7984725	.4660410	.4981248
#1	151.7869	4.939802	5.178807	4.727071	5.020558	5.012792	4.903526
#2	151.8552	4.961217	5.179771	4.707648	4.968937	5.012923	4.898231
#3	151.1029	4.922430	5.137260	4.670825	4.942405	4.972502	4.858966

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCV016 Acquired: 10/18/2024 19:47:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV016 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.924554	5.086452	5.008594
Stddev	.016584	.015923	.006367
%RSD	.3367536	.3130401	.1271258
#1	4.938544	5.101316	5.010582
#2	4.928883	5.069648	5.013730
#3	4.906235	5.088391	5.001470

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	804.4168	20258.81	2539.200	669.0413	1427.729
Stddev	6.0508	30.10	12.641	2.7581	9.264
%RSD	.7522028	.1485538	.4978402	.4122423	.6488813
#1	799.3461	20286.56	2537.567	672.2122	1421.892
#2	802.7894	20226.82	2527.455	667.7127	1422.884
#3	811.1149	20263.05	2552.578	667.1990	1438.411

Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCB016 Acquired: 10/18/2024 19:51:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB016 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003434	-.000681	.0002468	-.006717	.0014647	.1248640	-.001326
Stddev	.009685	.002833	.0020341	.001867	.0009061	.0006516	.001813
%RSD	282.0383	416.2754	824.1407	27.78869	61.86320	.5218805	136.7444
#1	-.010567	-.001902	.0023106	-.008243	.0011875	.1254146	.000080
#2	-.007326	.002558	.0001862	-.007273	.0007295	.1241446	-.003372
#3	.007591	-.002698	-.001756	-.004636	.0024769	.1250327	-.000686

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000110	-.000011	.0242262	.0010551	.0004581	.0014878	.0302774
Stddev	.000167	.000073	.0125135	.0008795	.0004630	.0003429	.0128569
%RSD	152.3981	656.3506	51.65280	83.35385	101.0599	23.04901	42.46381
#1	.000053	-.000068	.0098926	.0012388	-.000076	.0018118	.0447553
#2	-.000281	-.000036	.0329741	.0000983	.000720	.0015230	.0201935
#3	-.000101	.000071	.0298120	.0018283	.000730	.0011286	.0258833

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012735	.0116637	.0003227	.0013764	.3045643	.0011840	.0021042
Stddev	.0004901	.0473668	.0004976	.0025802	.2444860	.0133494	.0004857
%RSD	38.48107	406.1036	154.1790	187.4622	80.27402	1127.464	23.08152
#1	.0011409	.0626787	.0008717	-.000333	.5453674	-.004339	.0021877
#2	.0008634	.0032362	-.000098	.004344	.0565546	.016409	.0025428
#3	.0018163	-.030924	.000195	.000118	.3117710	-.008518	.0015822

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.204928	.0015189	.0059781	.0004939	-.008444	.0024952	-.000253
Stddev	.177414	.0013519	.0003154	.0002216	.003265	.0004150	.000996
%RSD	86.57379	89.00273	5.275196	44.86261	38.67245	16.63296	393.0207
#1	-.123800	.0021123	.0056175	.0003455	-.007671	.0029384	.000610
#2	-.408402	-.000028	.0061145	.0003877	-.012026	.0024316	-.001342
#3	-.082583	.002473	.0062023	.0007486	-.005634	.0021156	-.000028

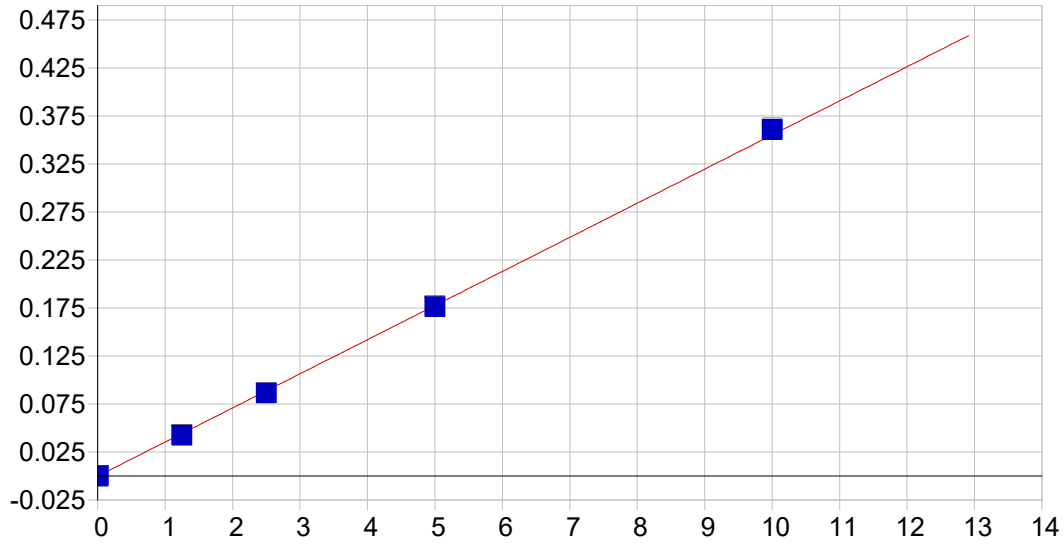
Reviewed By:jaswal
On:10/22/2024 1:54:03 AM
Inst Id :P5

Sample Name: CCB016 Acquired: 10/18/2024 19:51:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v704) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB016 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001320	.0091650	.0002957
Stddev	.000103	.0009320	.0000447
%RSD	7.818581	10.16940	15.13376
#1	-.001362	.0083999	.0003038
#2	-.001397	.0088922	.0003358
#3	-.001203	.0102031	.0002474

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	992.3172	21762.03	2676.695	868.6599	1852.087
Stddev	.4392	676.36	76.255	27.9757	2.132
%RSD	.0442621	3.107962	2.848840	3.220556	.1150953
#1	991.8125	22118.83	2635.175	881.2188	1852.737
#2	992.6129	20981.99	2764.700	836.6055	1849.706
#3	992.5262	22185.28	2630.211	888.1553	1853.818

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



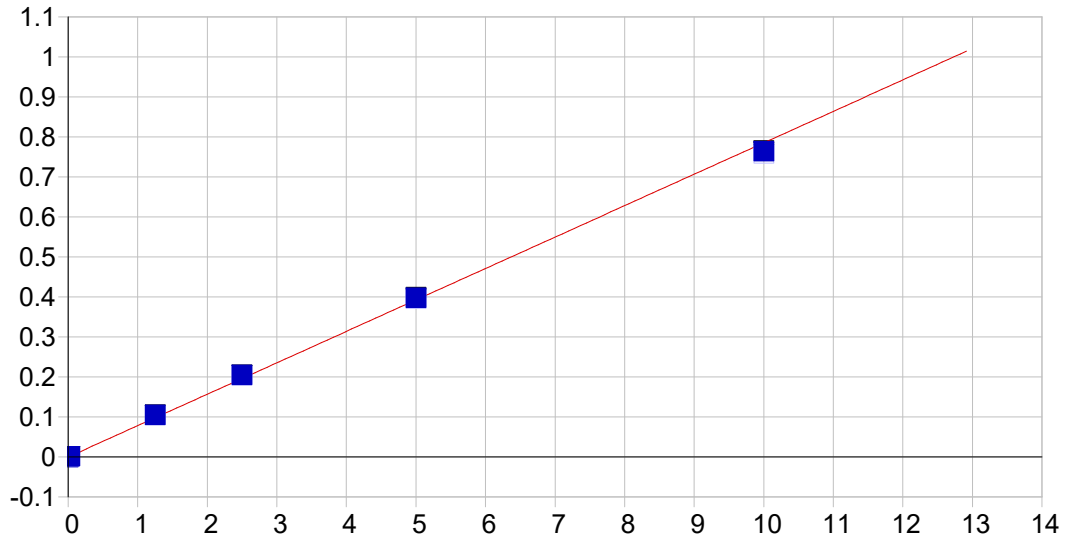
As 189.042 {479}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000211	Re-Slope:	1.000000
A1 (Gain):	0.035542	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999796	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.005423		
Predicted MQL:	0.018076		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00021	.000	1
S1	.01000	.01296	.003	29.6	.00025	.000	1
S2	1.2500	1.1942	-.056	-4.46	.04239	.000	1
S3	2.5000	2.4322	-.068	-2.71	.08655	.000	1
S4	5.0000	4.9682	-.032	-.636	.17701	.000	1
S5	10.000	10.152	.152	1.52	.36190	.001	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



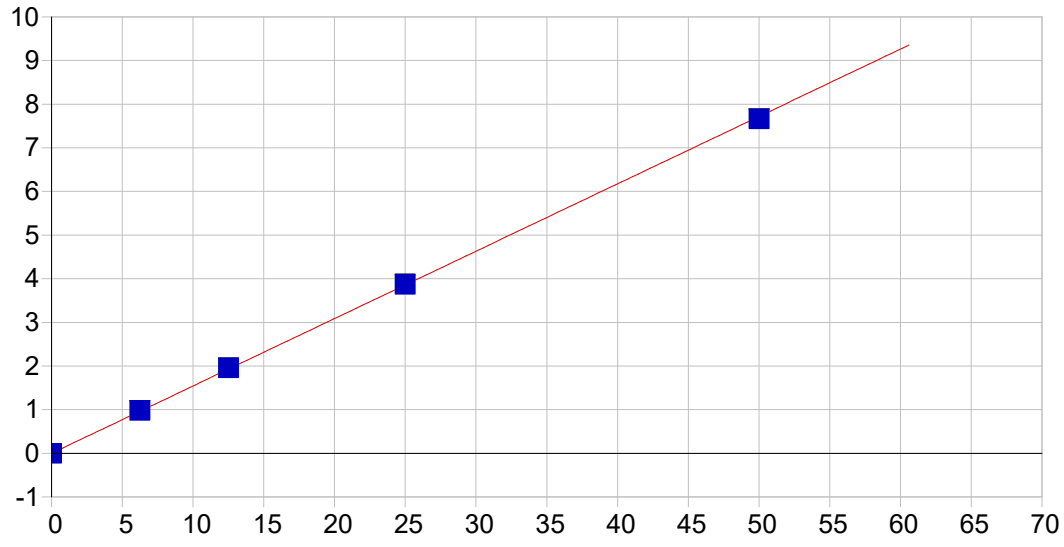
Tl 190.856 {477}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000432	Re-Slope:	1.000000
A1 (Gain):	0.078570	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999479	Status:	OK.
Std Error of Est:	0.000067		
Predicted MDL:	0.002727		
Predicted MQL:	0.009090		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00043	.000	1
S1	.02500	.02606	.001	4.23	.00157	.000	1
S2	1.2500	1.3373	.087	6.99	.10396	.000	1
S3	2.5000	2.6107	.111	4.43	.20334	.000	1
S4	5.0000	5.0703	.070	1.41	.39524	.001	1
S5	10.000	9.7306	-.269	-2.69	.75869	.002	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



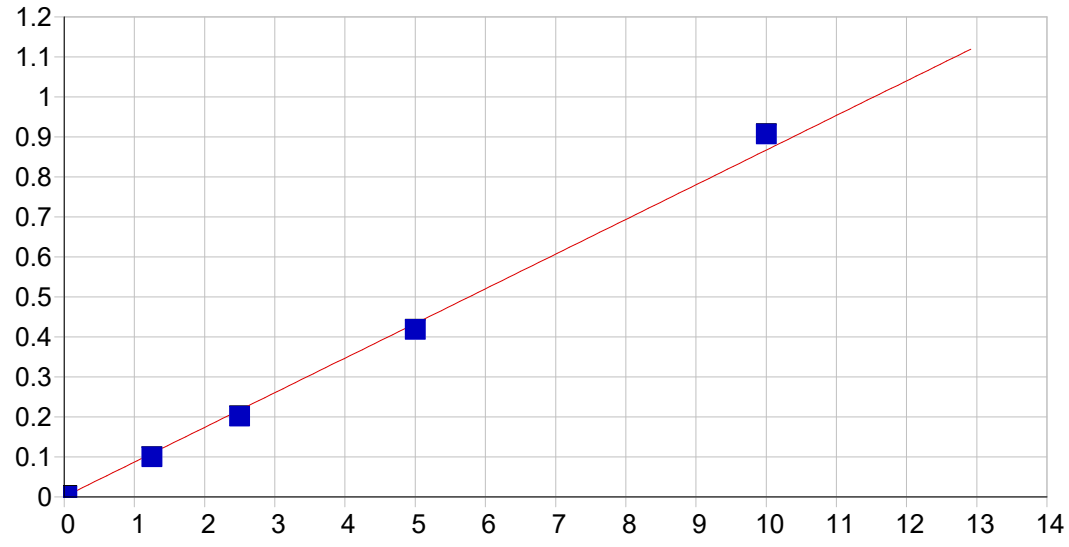
Pb 220.353 {453}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000731	Re-Slope:	1.000000
A1 (Gain):	0.154371	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.000049		
Predicted MDL:	0.003071		
Predicted MQL:	0.010236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00073	.001	1
S1	.01000	.01127	.001	12.7	.00101	.000	1
S2	6.2500	6.3523	.102	1.64	.97964	.003	1
S3	12.500	12.669	.169	1.35	1.9545	.001	1
S4	25.000	25.075	.075	.302	3.8692	.010	1
S5	50.000	49.652	-.348	-.697	7.6621	.006	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



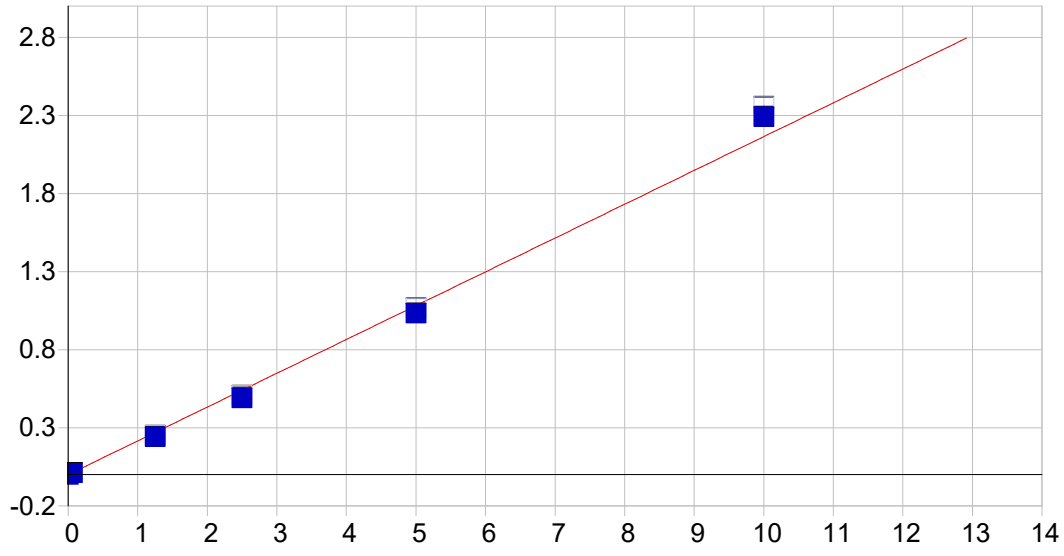
Se 196.090 {472}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000458	Re-Slope:	1.000000
A1 (Gain):	0.086639	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998646	Status:	OK.
Std Error of Est:	0.000141		
Predicted MDL:	0.004749		
Predicted MQL:	0.015832		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00046	.000	1
S1	.03500	.02647	-.009	-24.4	.00275	.000	1
S2	1.2500	1.1454	-.105	-8.37	.09948	.000	1
S3	2.5000	2.3258	-.174	-6.97	.20155	.001	1
S4	5.0000	4.8233	-.177	-3.53	.41752	.001	1
S5	10.000	10.464	.464	4.64	.90541	.001	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



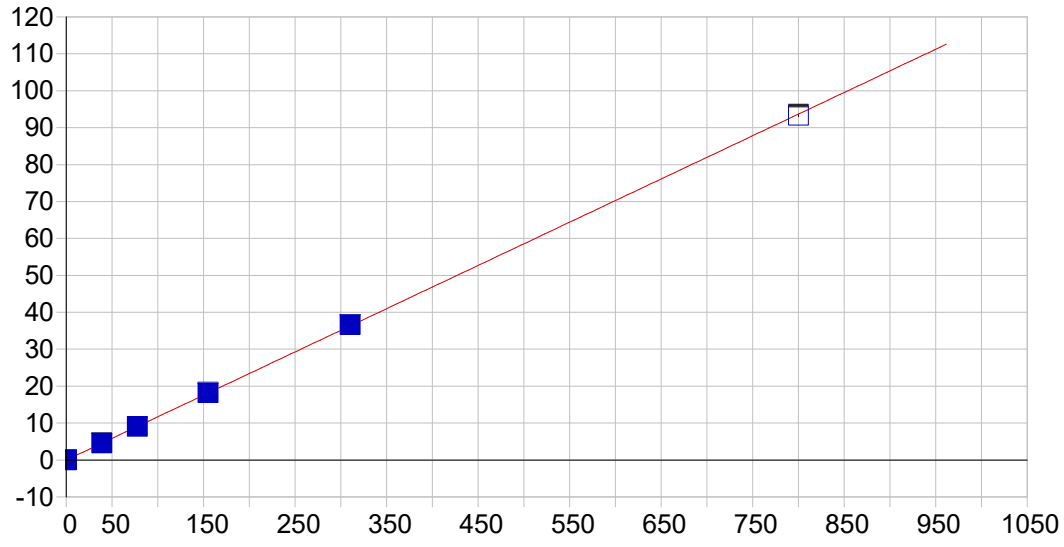
Sb 206.833 {463}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000109	Re-Slope:	1.000000
A1 (Gain):	0.216420	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997995	Status:	OK.
Std Error of Est:	0.000581		
Predicted MDL:	0.002299		
Predicted MQL:	0.007665		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	-.00011	.000	1
S1	.06000	.05521	-.005	-7.98	.01184	.000	1
S2	1.2500	1.1194	-.131	-10.4	.25014	.002	1
S3	2.5000	2.2683	-.232	-9.27	.50678	.001	1
S4	5.0000	4.7774	-.223	-4.45	1.0658	.002	1
S5	10.000	10.589	.589	5.89	2.3555	.003	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



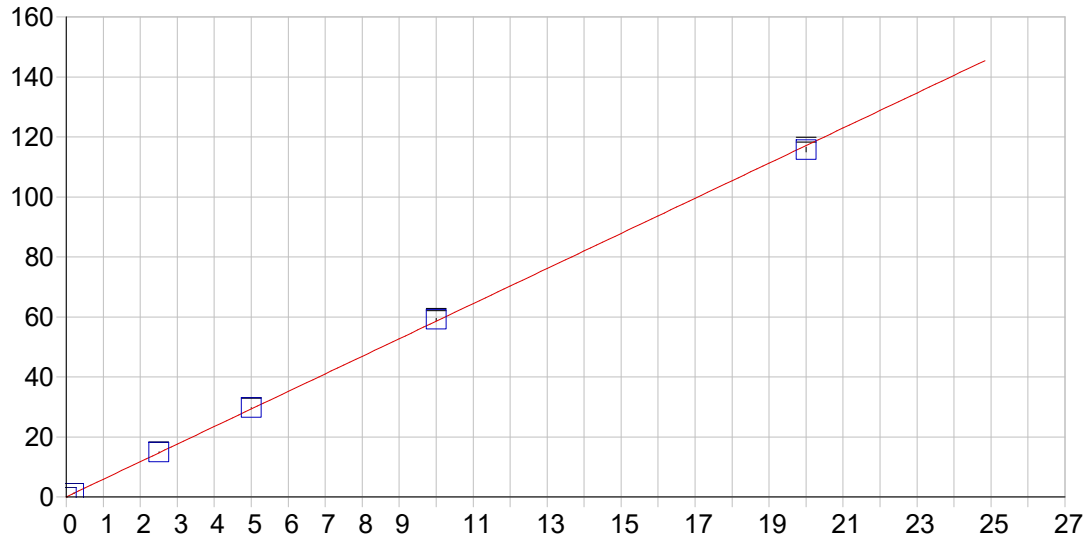
Al 396.152 { 85}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004383	Re-Slope:	1.000000
A1 (Gain):	0.117102	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000408		
Predicted MDL:	0.013492		
Predicted MQL:	0.044974		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00438	.001	1
S1	.20000	.21217	.012	6.09	.02051	.002	1
S2	38.750	39.088	.338	.872	4.5783	.016	1
S3	77.500	77.156	-.344	-.444	9.0417	.027	1
S4	155.00	155.37	.370	.239	18.212	.140	1
S5	310.00	312.78	2.78	.896	36.666	.044	1
S6	800.00	796.84	-3.16	-.395	93.308	.348	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



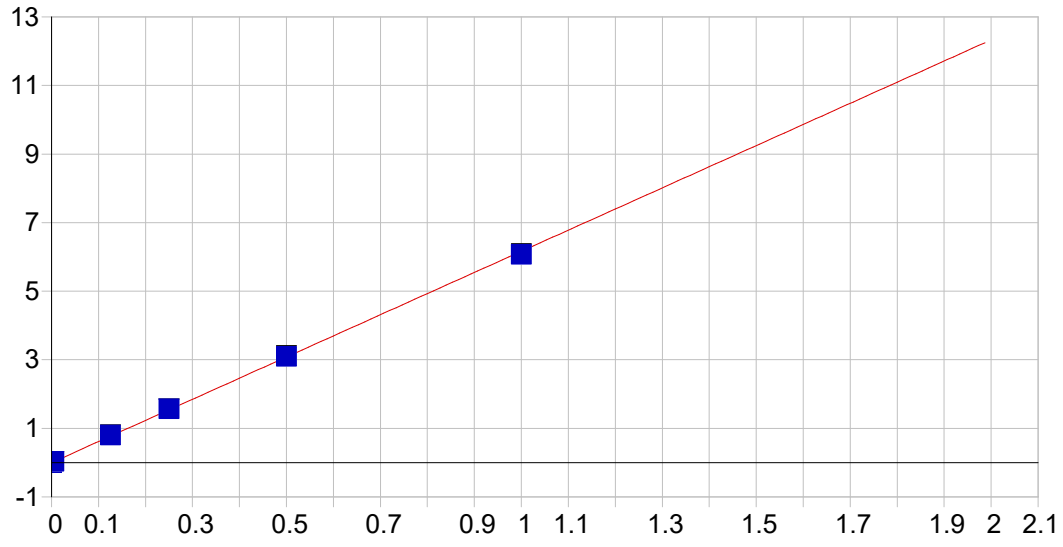
Ba 493.409 { 68}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.031335	Re-Slope:	1.000000
A1 (Gain):	5.853687	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.008089		
Predicted MDL:	0.000836		
Predicted MQL:	0.002787		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.03122	.002	1
S1	.20000	.21304	.013	6.52	1.2784	.001	1
S2	2.5000	2.5457	.046	1.83	14.933	.051	1
S3	5.0000	5.0696	.070	1.39	29.707	.034	1
S4	10.000	10.103	.103	1.03	59.169	.359	1
S5	20.000	19.769	-.231	-1.15	115.75	.785	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



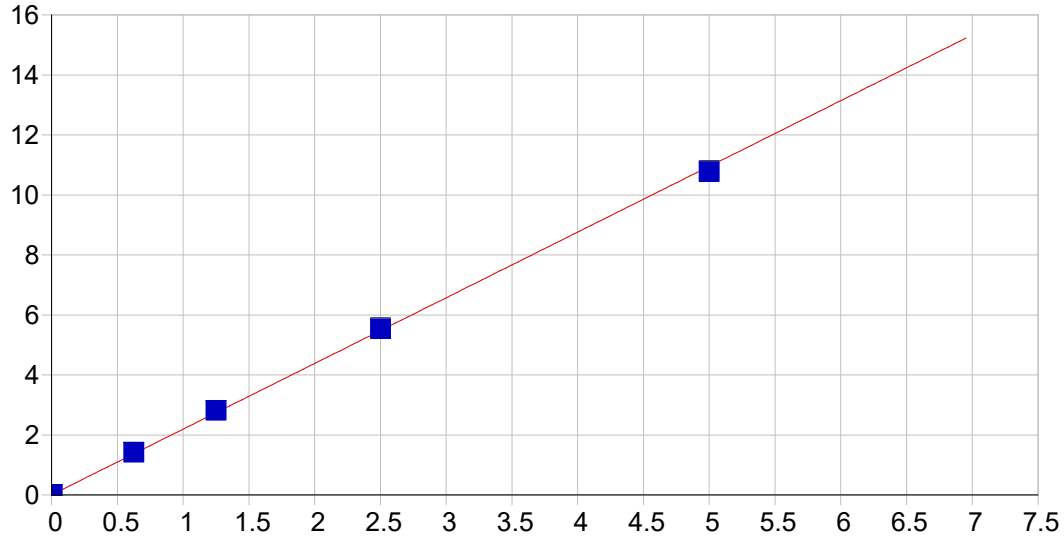
Be 234.861 {144}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002784	Re-Slope:	1.000000
A1 (Gain):	6.166224	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999823	Status:	OK.
Std Error of Est:	0.000435		
Predicted MDL:	0.000146		
Predicted MQL:	0.000486		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00279	.001	1
S1	.00500	.00566	.001	13.2	.03209	.001	1
S2	.12500	.13104	.006	4.83	.80402	.001	1
S3	.25000	.25425	.004	1.70	1.5625	.011	1
S4	.50000	.50299	.003	.598	3.0938	.021	1
S5	1.0000	.98606	-.014	-1.39	6.0675	.019	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



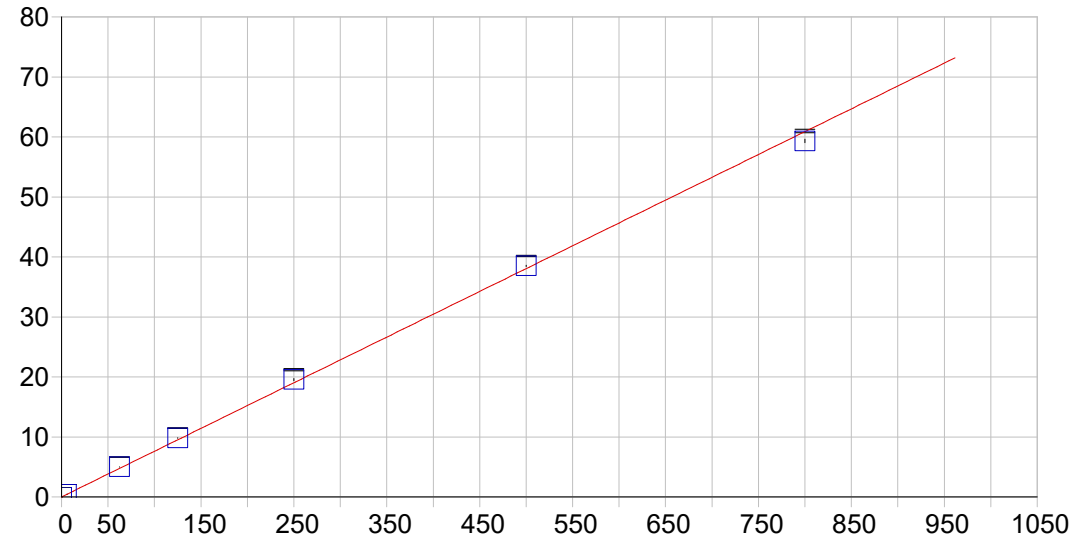
Cd 214.438 {457}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000381	Re-Slope:	1.000000
A1 (Gain):	2.190312	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999825	Status:	OK.
Std Error of Est:	0.000345		
Predicted MDL:	0.000131		
Predicted MQL:	0.000436		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00038	.000	1
S1	.00500	.00516	.000	3.29	.01170	.000	1
S2	.62500	.64613	.021	3.38	1.4189	.004	1
S3	1.2500	1.2832	.033	2.65	2.8175	.003	1
S4	2.5000	2.5285	.029	1.14	5.5518	.011	1
S5	5.0000	4.9170	-.083	-1.66	10.796	.016	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



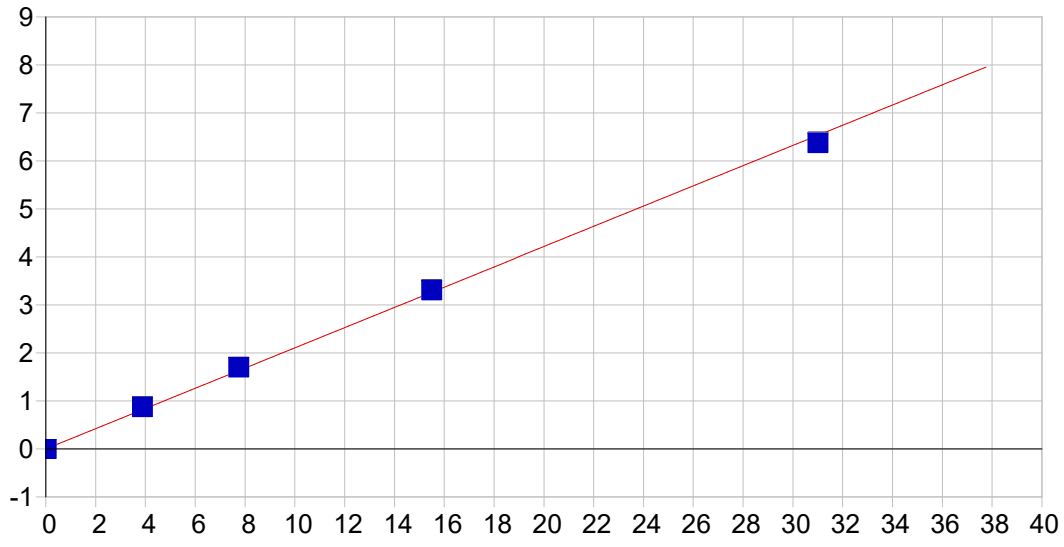
Ca 373.690 { 90}

Date of Fit: 10/23/2024 16:11:07 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.004191	Re-Slope:	1.000000
A1 (Gain):	0.076093	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999678	Status:	OK.
Std Error of Est:	0.006742		
Predicted MDL:	0.016604		
Predicted MQL:	0.055347		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00108	-.001	.000	.00411	.002	1
S1	5.0000	5.6121	.612	12.2	.43123	.004	1
S2	62.500	65.529	3.03	4.85	4.9904	.021	1
S3	125.00	128.97	3.97	3.17	9.8176	.048	1
S4	250.00	256.95	6.95	2.78	19.557	.181	1
S5	500.00	505.74	5.74	1.15	38.488	.108	1
S6	800.00	779.69	-20.3	-2.54	59.333	.288	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



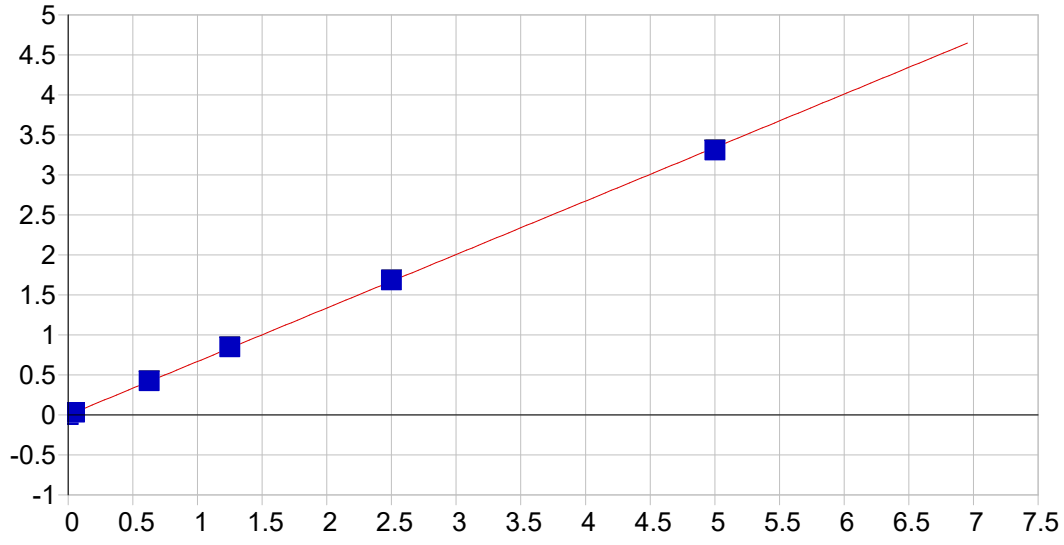
Cr 267.716 {126}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000236	Re-Slope:	1.000000
A1 (Gain):	0.210716	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999569	Status:	OK.
Std Error of Est:	0.000183		
Predicted MDL:	0.000929		
Predicted MQL:	0.003097		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00024	.000	1
S1	.01000	.01157	.002	15.7	.00221	.000	1
S2	3.8750	4.1390	.264	6.81	.87283	.003	1
S3	7.7500	8.0531	.303	3.91	1.6985	.003	1
S4	15.500	15.680	.180	1.16	3.3074	.005	1
S5	31.000	30.252	-.748	-2.41	6.3816	.012	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



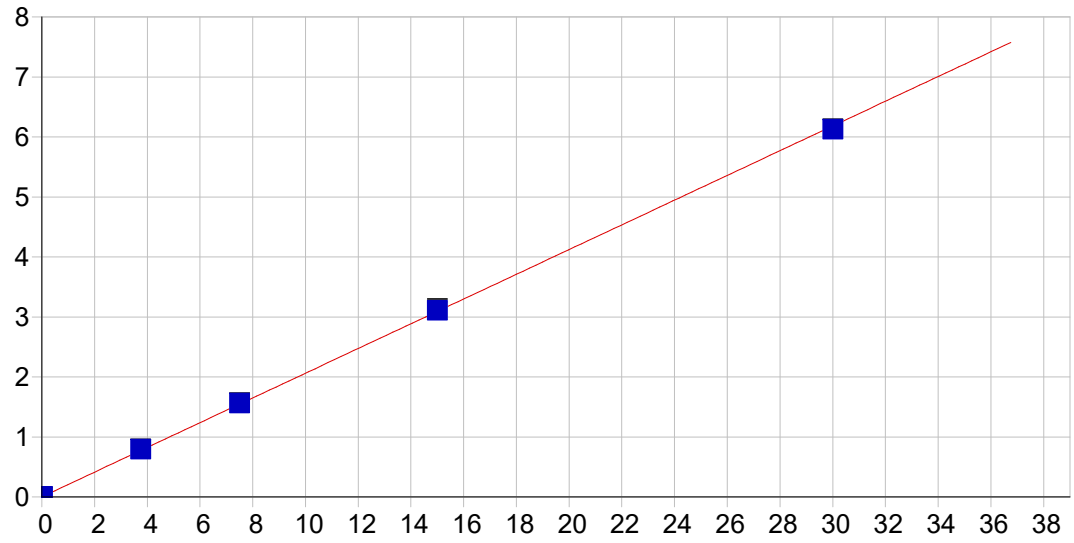
Co 228.616 {448}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000412	Re-Slope:	1.000000
A1 (Gain):	0.668366	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999945	Status:	OK.
Std Error of Est:	0.000187		
Predicted MDL:	0.000497		
Predicted MQL:	0.001656		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00041	.000	1
S1	.05000	.05041	.000	.822	.03340	.000	1
S2	.62500	.63366	.009	1.39	.42361	.000	1
S3	1.2500	1.2684	.018	1.47	.84835	.001	1
S4	2.5000	2.5212	.021	.849	1.6867	.003	1
S5	5.0000	4.9513	-.049	-.974	3.3130	.004	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



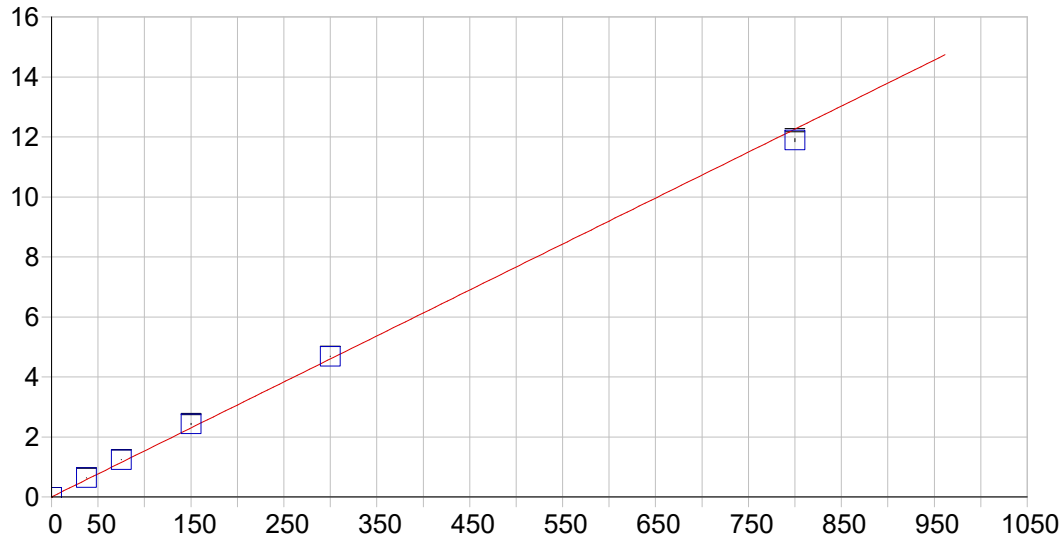
Cu 324.754 {104}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001411	Re-Slope:	1.000000
A1 (Gain):	0.206040	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999945	Status:	OK.
Std Error of Est:	0.000099		
Predicted MDL:	0.003780		
Predicted MQL:	0.012599		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00141	.000	1
S1	.02500	.02442	-.001	-2.30	.00644	.000	1
S2	3.7500	3.8467	.097	2.58	.79348	.001	1
S3	7.5000	7.5808	.081	1.08	1.5624	.004	1
S4	15.000	15.087	.087	.581	3.1080	.024	1
S5	30.000	29.736	-.264	-.880	6.1243	.006	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



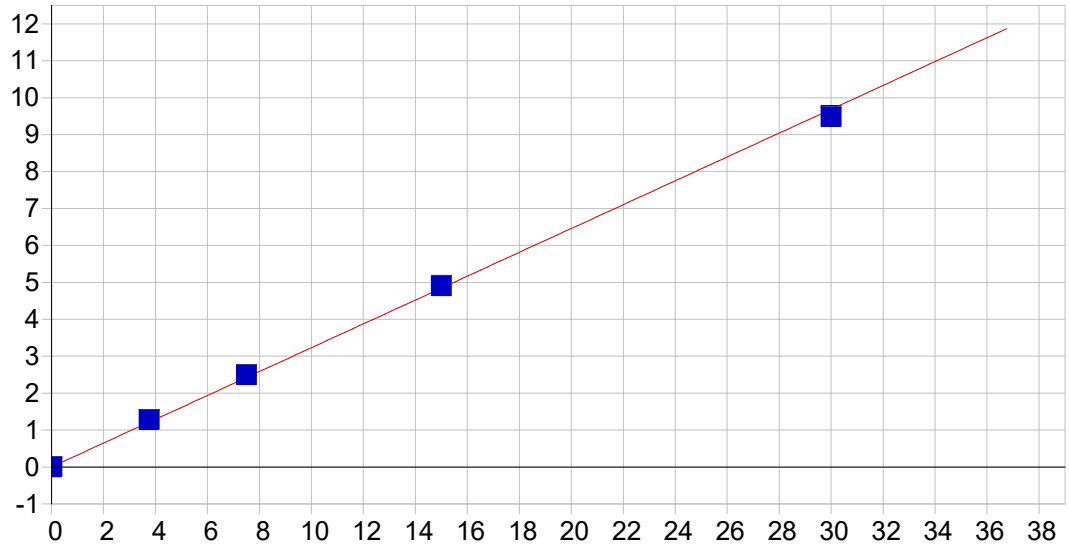
Fe 259.837 {130}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000295	Re-Slope:	1.000000
A1 (Gain):	0.015325	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999193	Status:	OK.
Std Error of Est:	0.000269		
Predicted MDL:	0.023436		
Predicted MQL:	0.078119		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00004	-.000	.000	.00029	.000	1
S1	.10000	.11974	.020	19.7	.00213	.000	1
S2	37.500	41.415	3.91	10.4	.63499	.004	1
S3	75.000	80.833	5.83	7.78	1.2391	.006	1
S4	150.00	158.62	8.62	5.75	2.4312	.025	1
S5	300.00	305.77	5.77	1.92	4.6863	.008	1
S6	800.00	775.85	-24.2	-3.02	11.890	.053	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



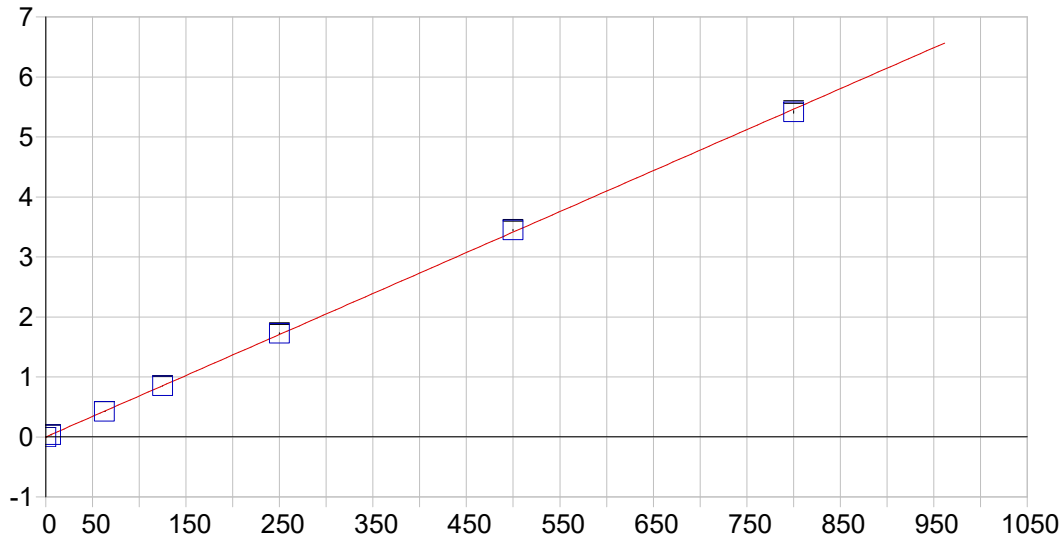
Mn 257.610 {131}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000055	Re-Slope:	1.000000
A1 (Gain):	0.322849	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999704	Status:	OK.
Std Error of Est:	0.000279		
Predicted MDL:	0.001163		
Predicted MQL:	0.003878		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00005	.000	1
S1	.01500	.01540	.000	2.66	.00504	.000	1
S2	3.7500	3.9634	.213	5.69	1.2798	.005	1
S3	7.5000	7.7274	.227	3.03	2.4952	.009	1
S4	15.000	15.168	.168	1.12	4.8978	.024	1
S5	30.000	29.391	-.609	-2.03	9.4903	.024	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



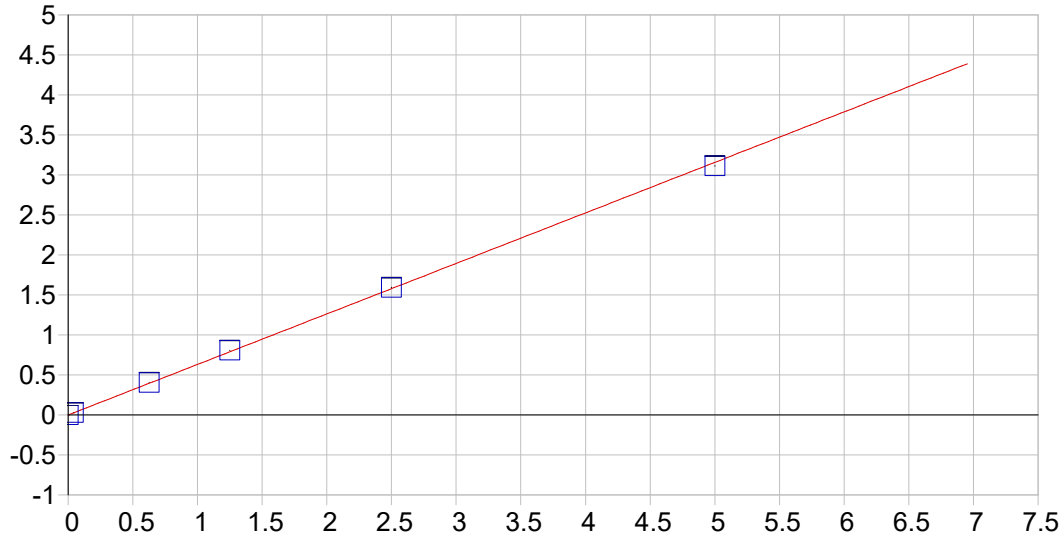
Mg 279.079 {121}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000175	Re-Slope:	1.000000
A1 (Gain):	0.006828	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000211		
Predicted MDL:	0.062461		
Predicted MQL:	0.208203		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00028	-.000	.000	-.00018	.000	1
S1	5.0000	5.2679	.268	5.36	.03579	.001	1
S2	62.500	62.227	-.273	-.437	.42470	.002	1
S3	125.00	124.62	-.379	-.303	.85071	.004	1
S4	250.00	252.33	2.33	.932	1.7227	.013	1
S5	500.00	504.67	4.67	.934	3.4456	.013	1
S6	800.00	793.38	-6.62	-.827	5.4169	.022	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



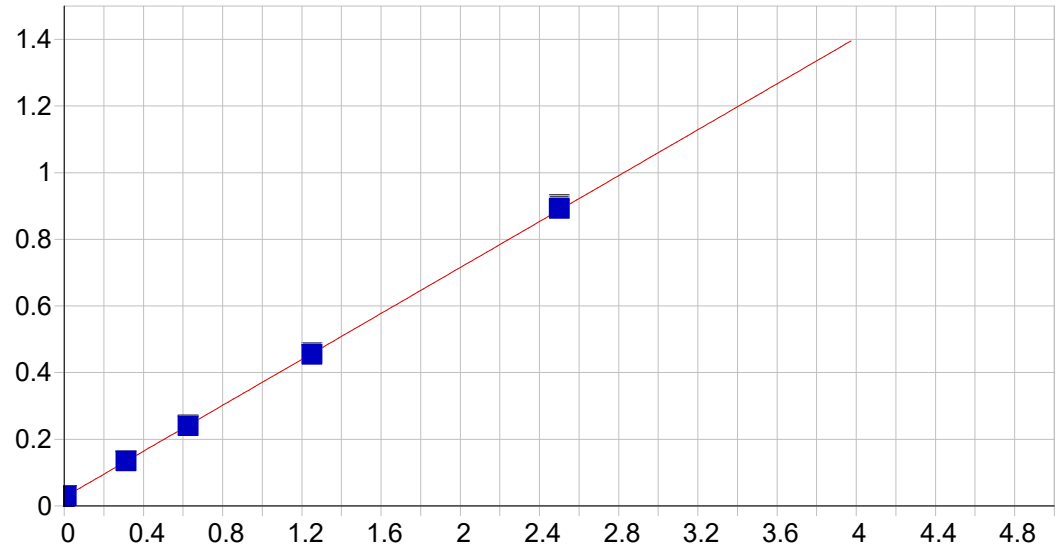
Ni 231.604 {446}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000442	Re-Slope:	1.000000
A1 (Gain):	0.631384	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999864	Status:	OK.
Std Error of Est:	0.000248		
Predicted MDL:	0.000560		
Predicted MQL:	0.001866		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00045	.000	1
S1	.04000	.04253	.003	6.34	.02641	.000	1
S2	.62500	.64294	.018	2.87	.40550	.002	1
S3	1.2500	1.2781	.028	2.24	.80650	.002	1
S4	2.5000	2.5236	.024	.942	1.5929	.003	1
S5	5.0000	4.9279	-.072	-1.44	3.1110	.003	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



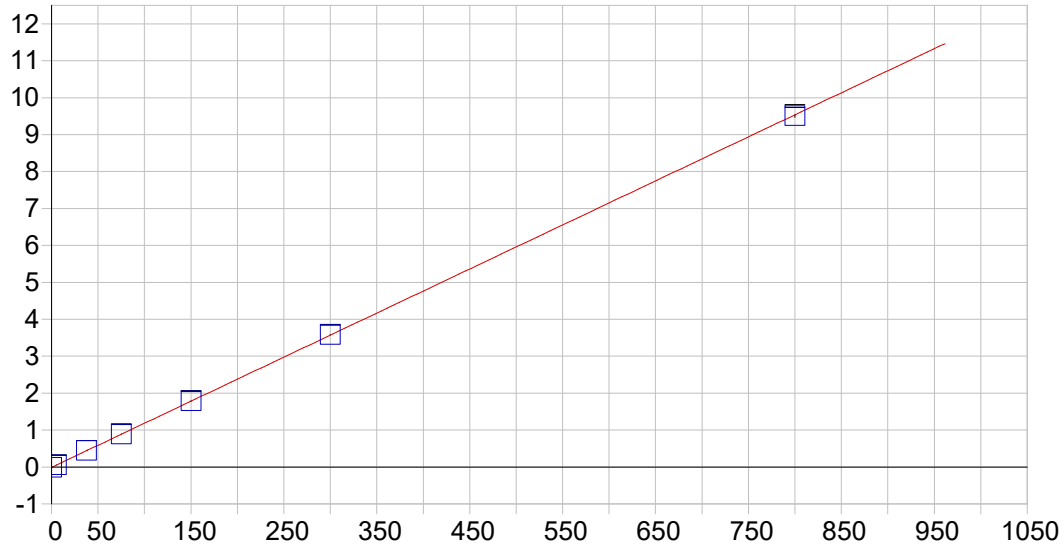
Ag 328.068 {103}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.026407	Re-Slope:	1.000000
A1 (Gain):	0.344548	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999945	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.02641	.000	1
S1	.01000	.01188	.002	18.8	.03049	.000	1
S2	.31250	.31299	.000	.156	.13541	.000	1
S3	.62500	.61878	-.006	-.995	.24193	.001	1
S4	1.2500	1.2418	-.008	-.658	.45890	.001	1
S5	2.5000	2.5121	.012	.484	.90123	.002	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



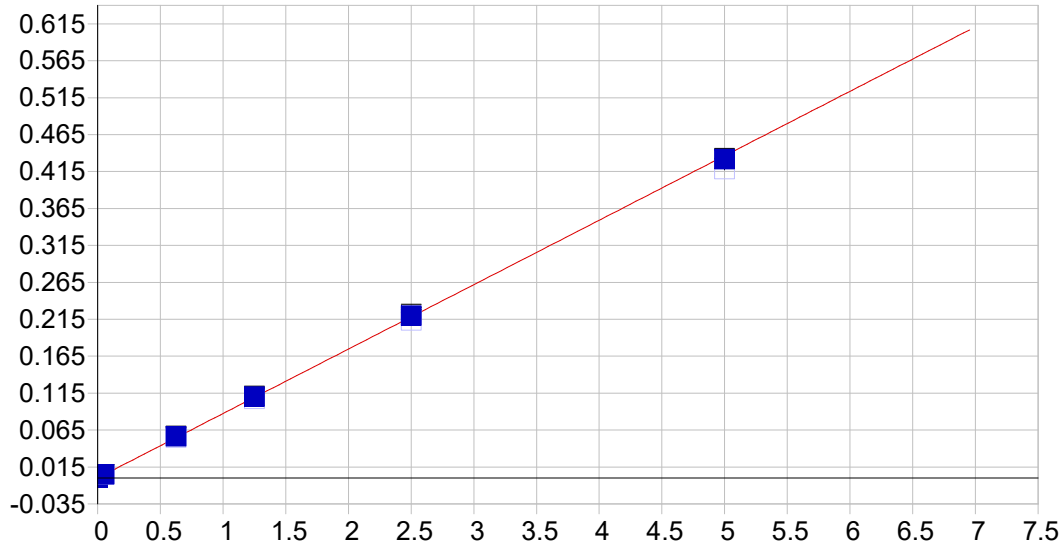
Na 818.326 { 41}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.008731	Re-Slope:	1.000000
A1 (Gain):	0.011931	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000171		
Predicted MDL:	0.281078		
Predicted MQL:	0.936927		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00029	-.000	.000	-.00873	.006	1
S1	5.0000	5.1735	.173	3.47	.05300	.003	1
S2	37.500	38.136	.636	1.70	.44628	.002	1
S3	75.000	75.249	.249	.331	.88908	.008	1
S4	150.00	150.52	.524	.349	1.7872	.011	1
S5	300.00	300.86	.865	.288	3.5810	.010	1
S6	800.00	797.55	-2.45	-.306	9.5071	.036	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



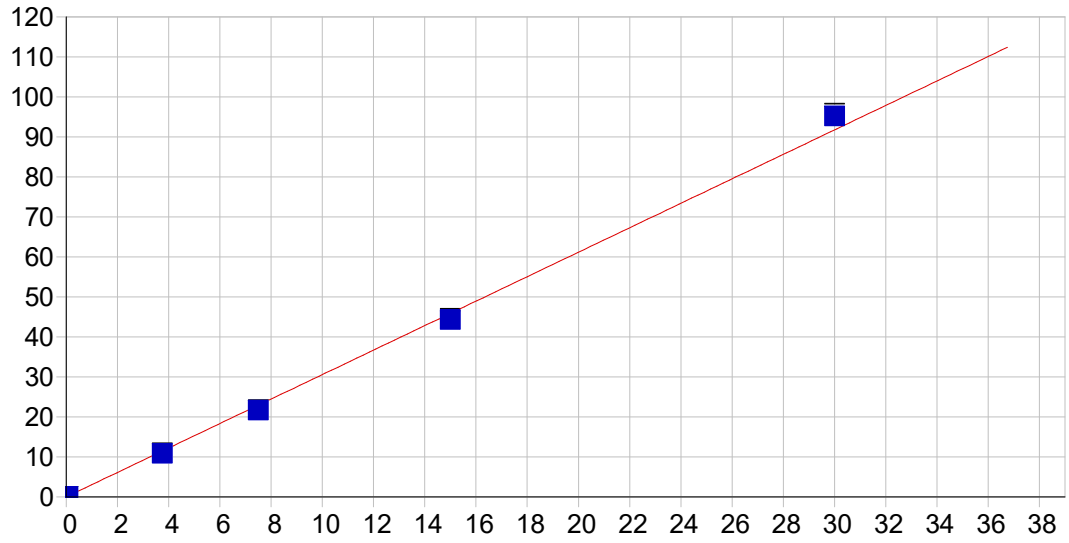
V 292.402 {115}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000076	Re-Slope:	1.000000
A1 (Gain):	0.087259	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999910	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.008764		
Predicted MQL:	0.029212		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00008	.000	1
S1	.05000	.05297	.003	5.95	.00469	.000	1
S2	.62500	.64361	.019	2.98	.05456	.001	1
S3	1.2500	1.2638	.014	1.10	.10700	.001	1
S4	2.5000	2.5183	.018	.730	.21311	.002	1
S5	5.0000	4.9463	-.054	-1.07	.41828	.001	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



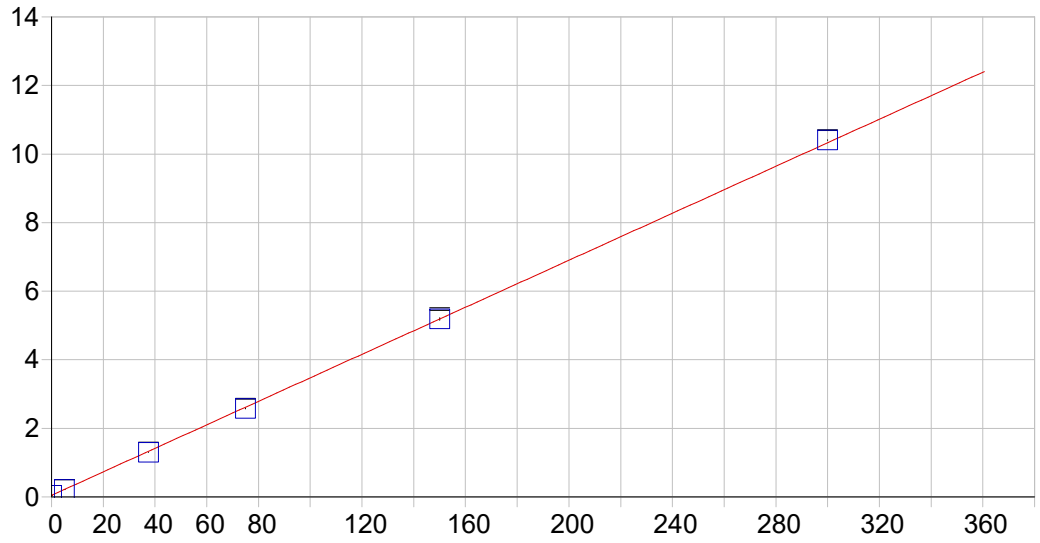
Zn 213.856 {158}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001681	Re-Slope:	1.000000
A1 (Gain):	3.058256	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999168	Status:	OK.
Std Error of Est:	0.008894		
Predicted MDL:	0.000436		
Predicted MQL:	0.001453		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00171	.002	1
S1	.06000	.05744	-.003	-4.27	.17823	.001	1
S2	3.7500	3.5566	-.193	-5.16	10.892	.048	1
S3	7.5000	7.0829	-.417	-5.56	21.691	.089	1
S4	15.000	14.480	-.520	-3.47	44.342	.287	1
S5	30.000	31.133	1.13	3.78	95.325	.584	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



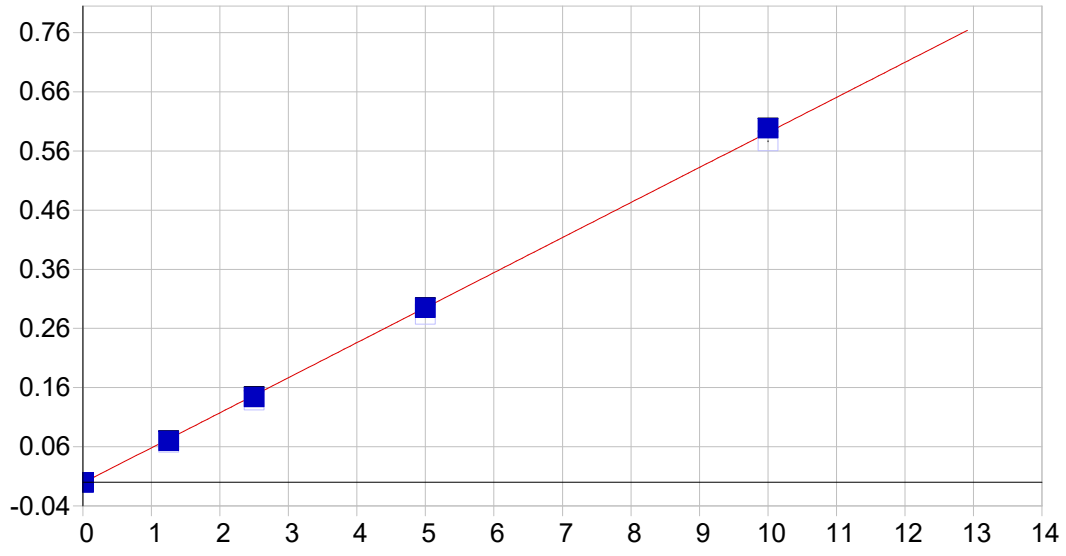
K 769.896 { 44}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.046025	Re-Slope:	1.000000
A1 (Gain):	0.034280	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999946	Status:	OK.
Std Error of Est:	0.000736		
Predicted MDL:	0.126779		
Predicted MQL:	0.422596		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00020	.000	.000	.04603	.001	1
S1	5.0000	4.9734	-.027	-.531	.21652	.001	1
S2	37.500	36.571	-.929	-2.48	1.2997	.003	1
S3	75.000	73.746	-1.25	-1.67	2.5741	.011	1
S4	150.00	149.93	-.075	-.050	5.1855	.037	1
S5	300.00	302.28	2.28	.761	10.408	.010	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



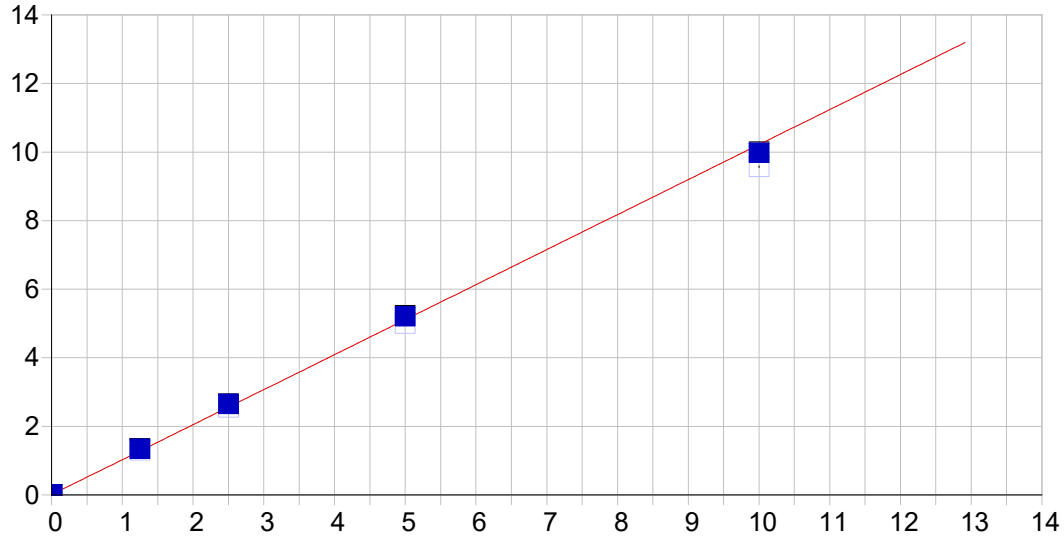
P 177.495 {490}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000999	Re-Slope:	1.000000
A1 (Gain):	0.059235	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999840	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.003085		
Predicted MQL:	0.010282		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00100	.000	1
S1	.01000	.00686	-.003	-31.4	-.00061	.000	1
S2	1.2500	1.1995	-.050	-4.04	.06733	.001	1
S3	2.5000	2.4461	-.054	-2.15	.13845	.001	1
S4	5.0000	4.9901	-.010	-.197	.28370	.001	1
S5	10.000	10.117	.117	1.17	.57653	.001	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



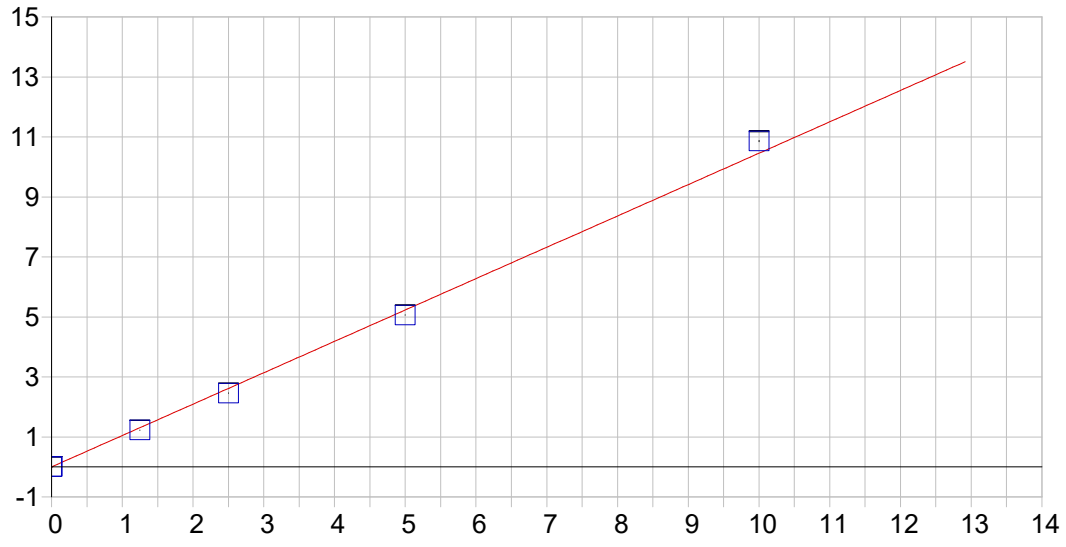
B 249.678 {135}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005887	Re-Slope:	1.000000
A1 (Gain):	1.021182	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999346	Status:	OK.
Std Error of Est:	0.000595		
Predicted MDL:	0.000995		
Predicted MQL:	0.003318		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00590	.000	1
S1	.01000	.00033	-.010	-96.7	.00613	.000	1
S2	1.2500	1.3131	.063	5.05	1.2953	.001	1
S3	2.5000	2.5881	.088	3.53	2.5458	.003	1
S4	5.0000	5.0902	.090	1.80	4.9978	.036	1
S5	10.000	9.7686	-.231	-2.31	9.5692	.021	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



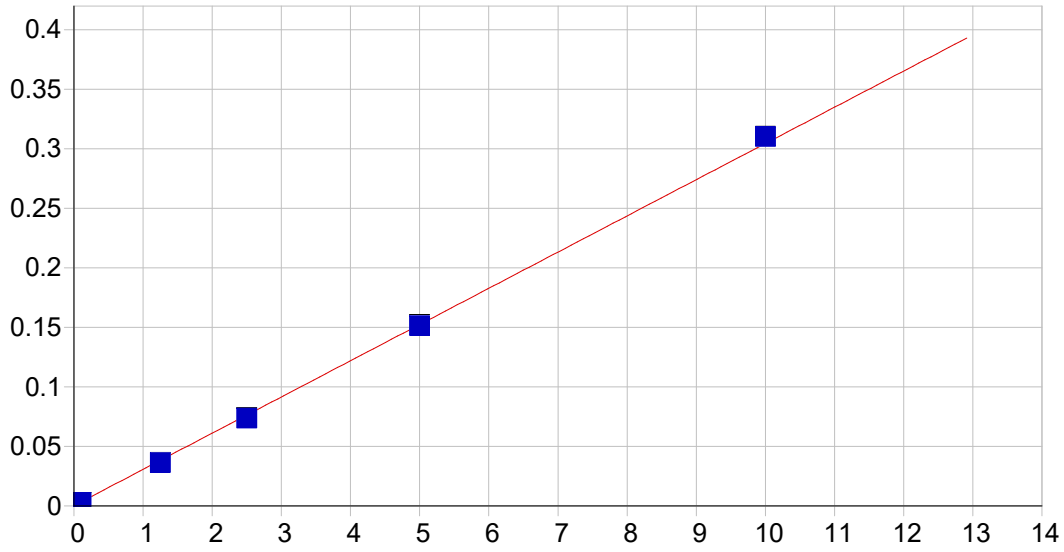
Mo 202.030 {467}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000039	Re-Slope:	1.000000
A1 (Gain):	1.045786	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999108	Status:	OK.
Std Error of Est:	0.000741		
Predicted MDL:	0.000426		
Predicted MQL:	0.001420		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00004	.000	1
S1	.01000	.00956	-.000	-4.41	.00996	.000	1
S2	1.2500	1.1723	-.078	-6.22	1.2259	.003	1
S3	2.5000	2.3530	-.147	-5.88	2.4607	.006	1
S4	5.0000	4.8397	-.160	-3.21	5.0613	.006	1
S5	10.000	10.385	.385	3.85	10.861	.025	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



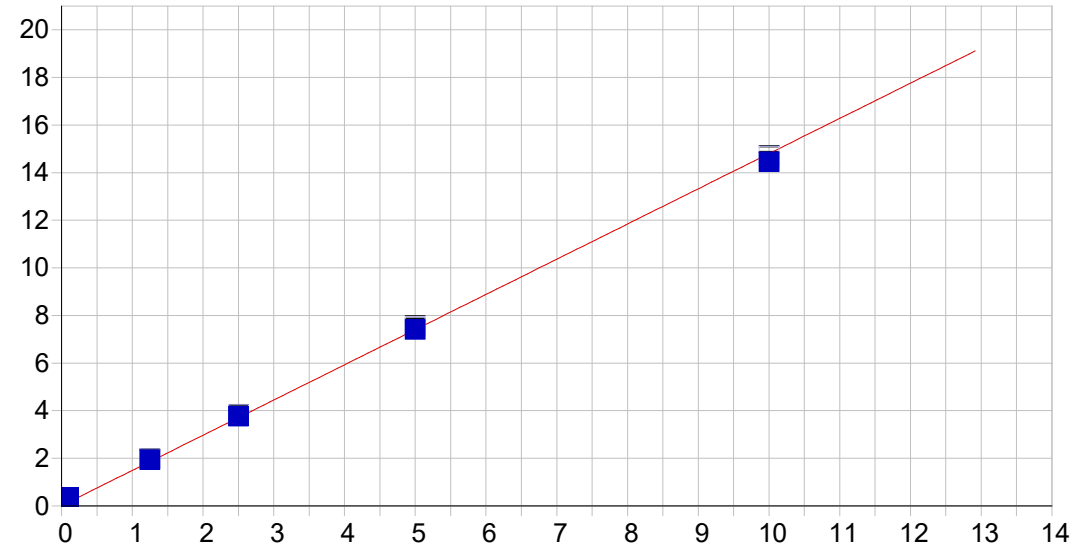
S 182.034 {485}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000275	Re-Slope:	1.000000
A1 (Gain):	0.030427	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999712	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.005874		
Predicted MQL:	0.019580		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00028	.000	1
S1	.10000	.08892	-.011	-11.1	.00298	.000	1
S2	1.2500	1.1875	-.063	-5.00	.03641	.000	1
S3	2.5000	2.4160	-.084	-3.36	.07379	.000	1
S4	5.0000	4.9703	-.030	-.595	.15152	.001	1
S5	10.000	10.187	.187	1.87	.31027	.000	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



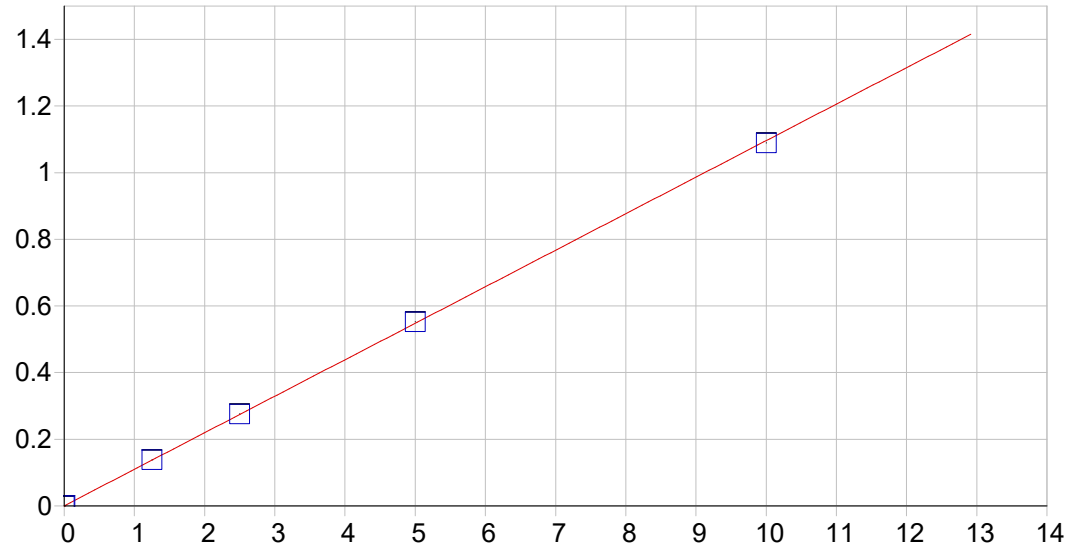
Si 251.611 {134}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.011298	Re-Slope:	1.000000
A1 (Gain):	1.479083	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.994627	Status:	OK.
Std Error of Est:	0.008312		
Predicted MDL:	0.000592		
Predicted MQL:	0.001973		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.01108	.001	1
S1	.10000	.24216	.142	142.	.37046	.003	1
S2	1.2500	1.3054	.055	4.43	1.9720	.011	1
S3	2.5000	2.5394	.039	1.57	3.8270	.020	1
S4	5.0000	4.9973	-.003	-.054	7.5223	.052	1
S5	10.000	9.7671	-.233	-2.33	14.697	.028	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



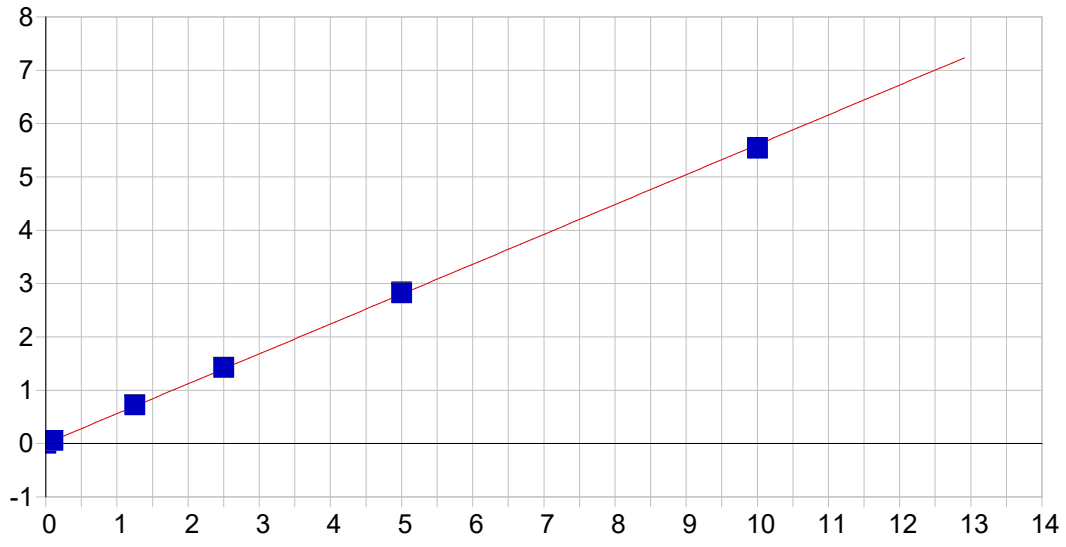
Sn 189.989 {478}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000265	Re-Slope:	1.000000
A1 (Gain):	0.109578	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.001632		
Predicted MQL:	0.005440		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00027	.000	1
S1	.00700	.00494	-.002	-29.4	.00081	.000	1
S2	1.2500	1.2581	.008	.651	.13813	.000	1
S3	2.5000	2.5165	.017	.660	.27602	.000	1
S4	5.0000	5.0383	.038	.766	.55235	.001	1
S5	10.000	9.9391	-.061	-.609	1.0894	.001	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



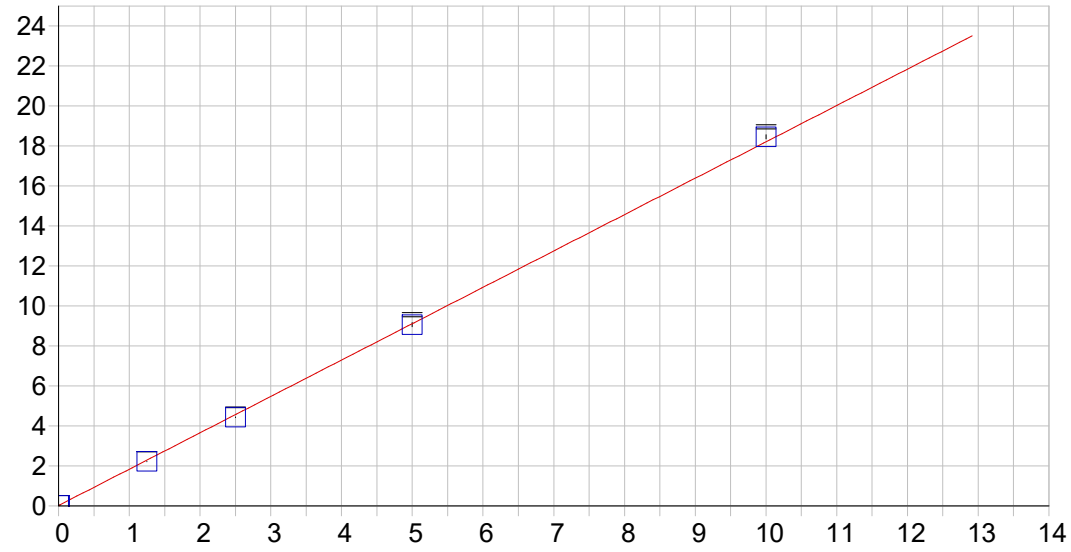
Ti 336.121 {100}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000817	Re-Slope:	1.000000
A1 (Gain):	0.560144	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000412		
Predicted MDL:	0.001615		
Predicted MQL:	0.005382		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00081	.001	1
S1	.10000	.10335	.003	3.35	.05869	.000	1
S2	1.2500	1.2874	.037	2.99	.72162	.002	1
S3	2.5000	2.5426	.043	1.70	1.4243	.006	1
S4	5.0000	5.0349	.035	.699	2.8197	.018	1
S5	10.000	9.8817	-.118	-1.18	5.5332	.010	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



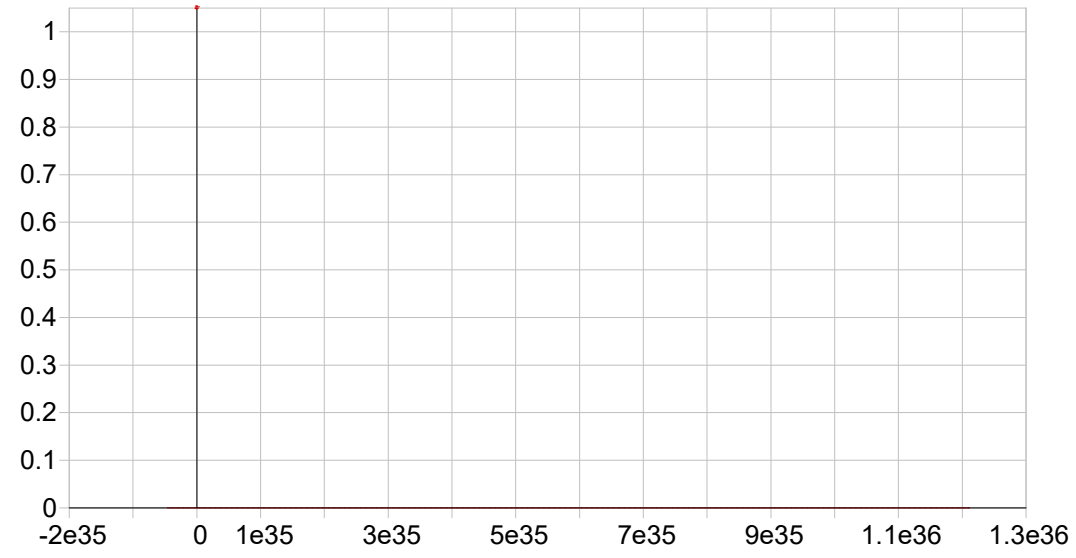
Li 670.784 { 50}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.018018	Re-Slope:	1.000000
A1 (Gain):	1.819000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999860	Status:	OK.
Std Error of Est:	0.000624		
Predicted MDL:	0.001826		
Predicted MQL:	0.006086		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01802	.004	1
S5	10.000	10.136	.136	1.36	18.455	.104	1
S4	5.0000	4.9742	-.026	-.516	9.0661	.101	1
S3	2.5000	2.4286	-.071	-2.86	4.4356	.014	1
S2	1.2500	1.2110	-.039	-3.12	2.2208	.009	1
S1	.01500	.01534	.000	2.24	.04592	.001	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

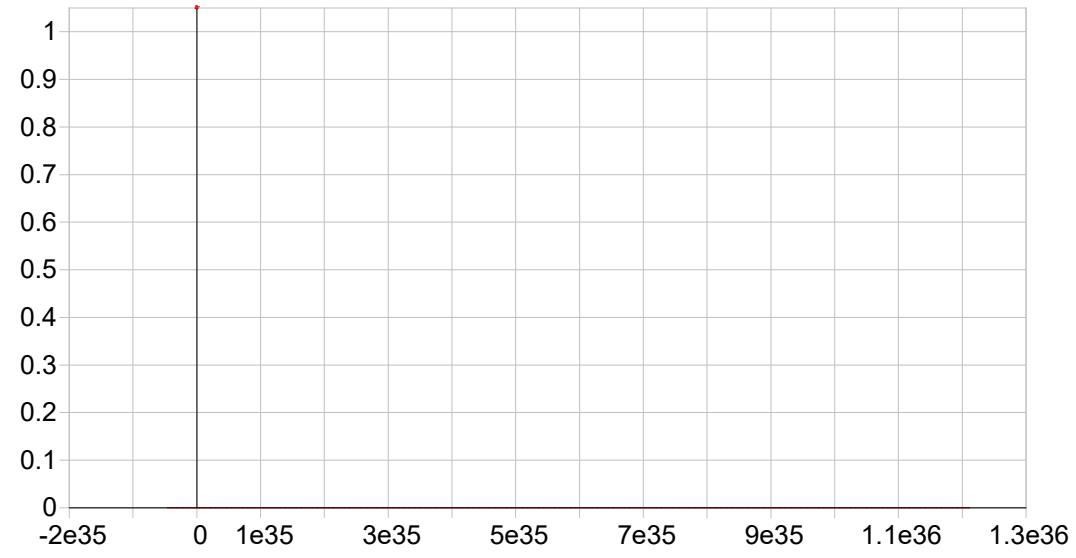


Y 224.306 {450}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 360.073 { 94}*

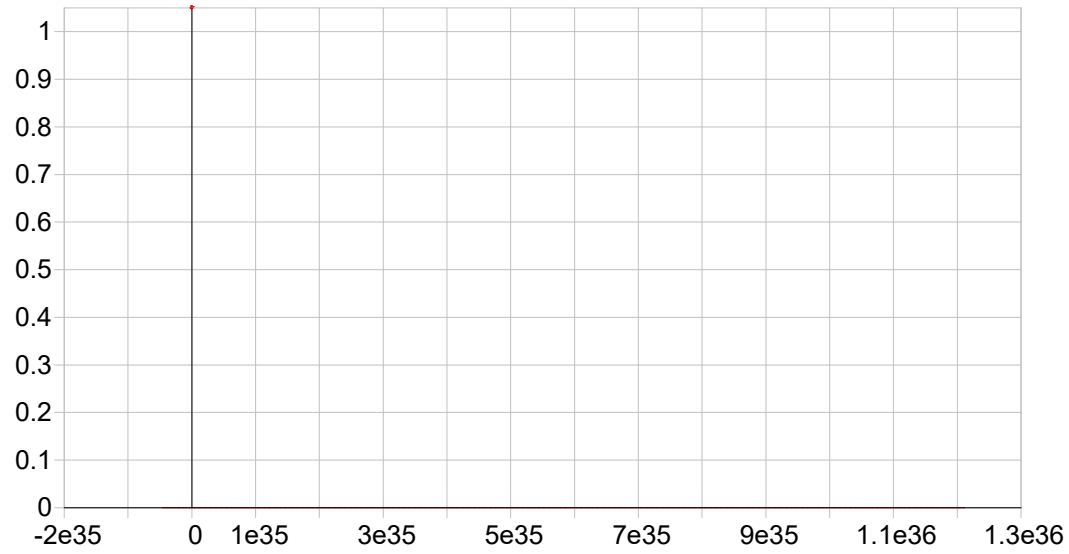
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



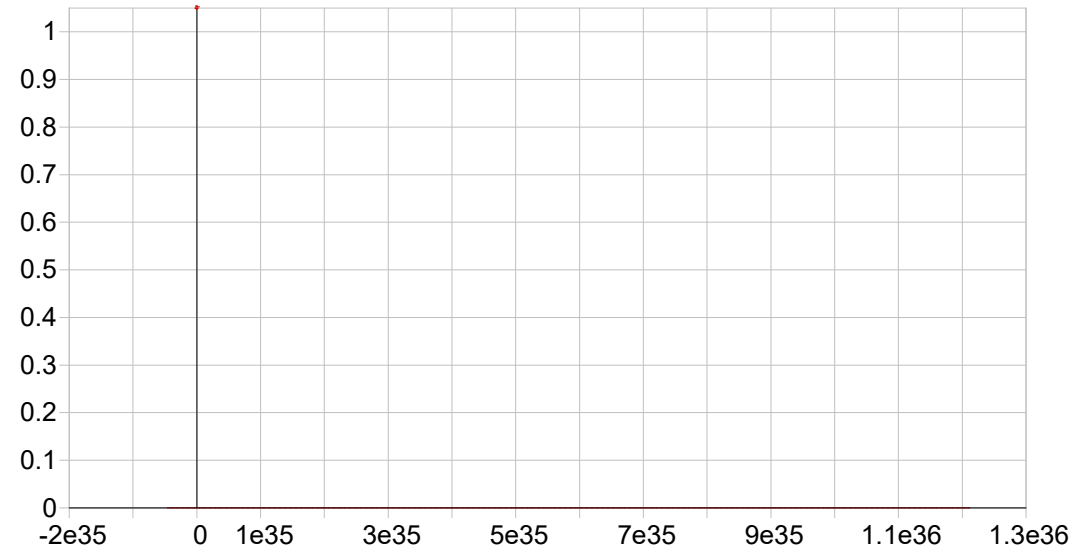
Y 371.030 { 91}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

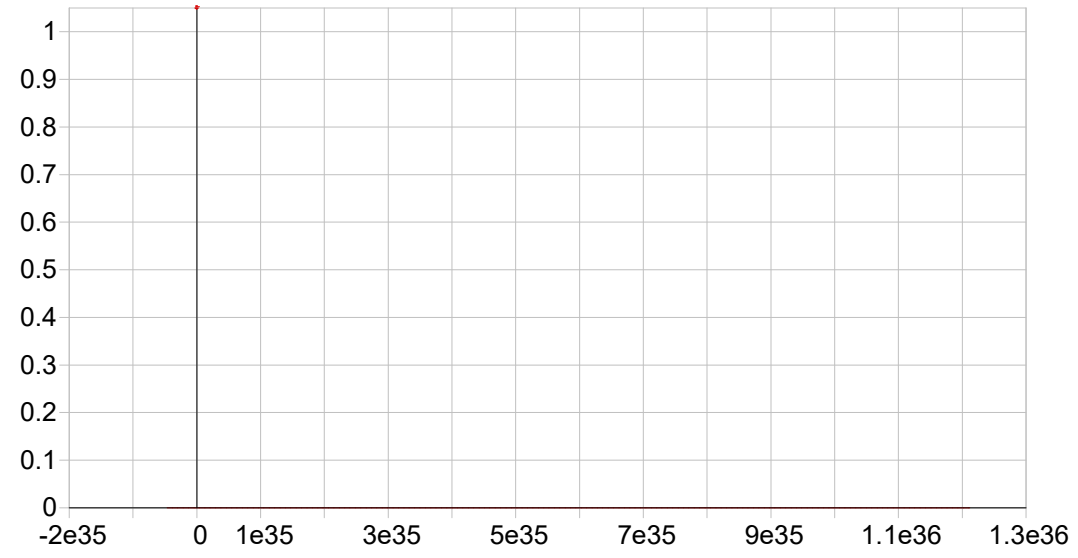
Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5



Y 224.306 {150}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



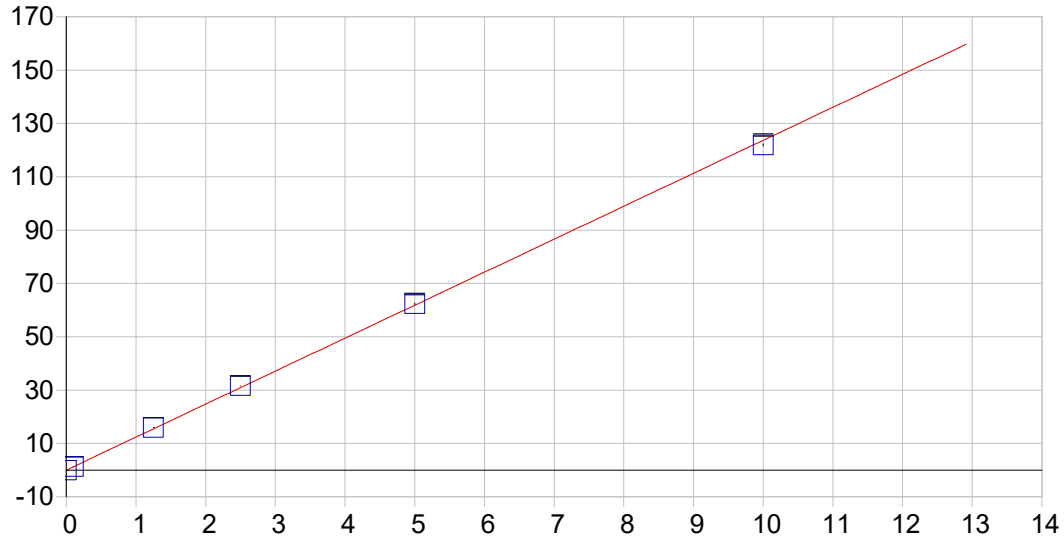
In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Sr 407.771 { 83}

Date of Fit:	10/23/2024 16:11:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000095	Re-Slope:	1.000000
A1 (Gain):	12.366566	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.011227		
Predicted MDL:	0.000116		
Predicted MQL:	0.000386		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00025	.001	1
S1	.10000	.10794	.008	7.94	1.3348	.003	1
S2	1.2500	1.2900	.040	3.20	15.953	.021	1
S3	2.5000	2.5553	.055	2.21	31.601	.088	1
S4	5.0000	5.0398	.040	.796	62.325	.275	1
S5	10.000	9.8569	-.143	-1.43	121.90	.415	1

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S0 Acquired: 10/23/2024 14:17:41 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00021	-.00043	-.00073	.00046	-.00011	-.00438	.03122	-.00279
Stddev	.00012	.00012	.00058	.00023	.00039	.00131	.00247	.00088
%RSD	54.600	26.856	79.211	50.325	367.36	29.838	7.9219	31.390
#1	-.00032	-.00050	-.00017	.00061	.00026	-.00514	.02875	-.00196
#2	-.00022	-.00049	-.00069	.00057	-.00007	-.00287	.03121	-.00371
#3	-.00009	-.00030	-.00133	.00019	-.00051	-.00514	.03370	-.00270

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00038	.00411	-.00024	-.00041	.00141	.00029	.00005	-.00018
Stddev	.00027	.00153	.00005	.00026	.00049	.00012	.00012	.00012
%RSD	70.929	37.214	19.093	63.151	34.673	41.509	220.35	65.709
#1	.00027	.00280	-.00020	-.00037	.00191	.00023	.00017	-.00020
#2	.00019	.00373	-.00029	-.00069	.00093	.00044	-.00007	-.00005
#3	.00069	.00579	-.00022	-.00018	.00139	.00022	.00007	-.00028

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00045	.02641	-.00873	.00008	.00171	.04603	-.00100	.00590
Stddev	.00006	.00017	.00558	.00036	.00151	.00065	.00010	.00026
%RSD	13.250	.63872	63.928	473.67	88.678	1.4110	10.313	4.4586
#1	-.00042	.02621	-.00258	-.00021	.00085	.04678	-.00112	.00567
#2	-.00040	.02650	-.01348	-.00004	.00346	.04563	-.00094	.00583
#3	-.00051	.02651	-.01013	.00048	.00082	.04569	-.00094	.00619

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00004	.00028	.01108	.00027	.00081	.01802	-.00025
Stddev	.00017	.00002	.00122	.00015	.00090	.00377	.00074
%RSD	451.17	7.0290	11.010	57.970	110.56	20.907	292.57
#1	.00015	.00029	.00998	.00018	-.00017	.02222	-.00047
#2	-.00009	.00025	.01239	.00044	.00160	.01690	.00057
#3	-.00017	.00028	.01088	.00017	.00101	.01494	-.00086

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S0 Acquired: 10/23/2024 14:17:41 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	973.47	22169.	2819.4	813.16	1909.7
Stddev	1.16	46.	17.5	3.82	.5
%RSD	.11885	.20672	.62131	.46977	.02637
#1	972.62	22117.	2799.2	811.89	1910.0
#2	973.01	22200.	2828.5	810.14	1909.2
#3	974.79	22192.	2830.6	817.46	1910.0

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S1 Acquired: 10/23/2024 14:22:20 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00025	.00157	.00101	.00275	.01184	.02051	1.2784	.03209
Stddev	.00015	.00011	.00026	.00020	.00029	.00154	.0012	.00098
%RSD	60.064	7.2305	25.857	7.1639	2.4317	7.5110	.09002	3.0399
#1	.00037	.00148	.00097	.00294	.01163	.02202	1.2796	.03186
#2	.00008	.00170	.00077	.00255	.01217	.02055	1.2773	.03126
#3	.00030	.00154	.00129	.00276	.01172	.01894	1.2783	.03317

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01170	.43123	.00221	.03340	.00644	.00213	.00504	.03579
Stddev	.00014	.00408	.00005	.00032	.00045	.00007	.00027	.00064
%RSD	1.2172	.94571	2.0659	.95735	6.9656	3.1027	5.4311	1.7754
#1	.01158	.42677	.00215	.03342	.00683	.00216	.00474	.03564
#2	.01166	.43218	.00223	.03371	.00595	.00206	.00510	.03525
#3	.01186	.43476	.00223	.03307	.00654	.00218	.00528	.03649

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02641	.03049	.05300	.00469	.17823	.21652	-.00061	.00613
Stddev	.00014	.00021	.00322	.00047	.00148	.00080	.00008	.00044
%RSD	.54851	.68623	6.0814	10.001	.82934	.37089	12.458	7.2198
#1	.02651	.03041	.05578	.00460	.17955	.21733	-.00062	.00604
#2	.02649	.03073	.04946	.00520	.17850	.21572	-.00053	.00661
#3	.02625	.03033	.05375	.00427	.17663	.21650	-.00067	.00574

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00996	.00298	.37046	.00081	.05869	.04592	1.3348
Stddev	.00027	.00014	.00333	.00010	.00014	.00058	.0032
%RSD	2.7207	4.5681	.89921	12.775	.24361	1.2725	.23881
#1	.01000	.00298	.36676	.00088	.05859	.04562	1.3313
#2	.01021	.00284	.37141	.00069	.05862	.04554	1.3353
#3	.00967	.00312	.37321	.00086	.05885	.04659	1.3376

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S1 Acquired: 10/23/2024 14:22:20 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	970.72	22191.	2811.5	814.93	1888.8
Stddev	.21	86.	12.7	3.23	2.8
%RSD	.02168	.38770	.45272	.39630	.14973
#1	970.58	22183.	2826.1	812.76	1890.4
#2	970.62	22109.	2804.8	813.39	1885.6
#3	970.96	22280.	2803.5	818.64	1890.6

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S2 Acquired: 10/23/2024 14:26:58 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04239	.10396	.97964	.09948	.25014	4.5783	14.933	.80402
Stddev	.00028	.00045	.00301	.00016	.00171	.0158	.051	.00125
%RSD	.65024	.43154	.30724	.16091	.68364	.34605	.34333	.15494
#1	.04270	.10363	.97815	.09965	.24819	4.5605	14.878	.80544
#2	.04232	.10379	.97766	.09947	.25134	4.5906	14.980	.80315
#3	.04216	.10447	.98310	.09933	.25091	4.5839	14.940	.80345

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4189	4.9904	.87283	.42361	.79348	.63499	1.2798	.42470
Stddev	.0038	.0211	.00267	.00019	.00145	.00371	.0053	.00172
%RSD	.26915	.42205	.30603	.04486	.18285	.58501	.41585	.40443
#1	1.4177	4.9706	.87055	.42357	.79264	.63171	1.2782	.42325
#2	1.4158	5.0125	.87218	.42345	.79516	.63902	1.2858	.42660
#3	1.4232	4.9881	.87577	.42382	.79265	.63425	1.2755	.42425

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.40550	.13541	.44628	.05456	10.892	1.2997	.06733	1.2953
Stddev	.00153	.00047	.00183	.00052	.048	.0031	.00054	.0006
%RSD	.37827	.34618	.40957	.94878	.44222	.23764	.80229	.04306
#1	.40461	.13487	.44638	.05500	10.941	1.2962	.06692	1.2957
#2	.40461	.13571	.44441	.05399	10.892	1.3018	.06713	1.2955
#3	.40727	.13564	.44806	.05470	10.845	1.3011	.06794	1.2947

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2259	.03641	1.9720	.13813	.72162	2.2208	15.953
Stddev	.0026	.00023	.0109	.00022	.00216	.0088	.021
%RSD	.21415	.62455	.54997	.15674	.29879	.39448	.13124
#1	1.2231	.03621	1.9835	.13789	.71989	2.2160	15.937
#2	1.2263	.03666	1.9706	.13819	.72403	2.2309	15.976
#3	1.2283	.03636	1.9619	.13831	.72092	2.2155	15.944

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S2 Acquired: 10/23/2024 14:26:58 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	916.17	21643.	2795.6	758.25	1712.4
Stddev	1.28	99.	1.7	1.85	.9
%RSD	.13920	.45869	.05967	.24409	.05293
#1	917.50	21745.	2797.5	756.22	1712.8
#2	916.05	21637.	2794.3	758.67	1713.1
#3	914.96	21547.	2795.0	759.85	1711.4

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S3 Acquired: 10/23/2024 14:31:22 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.08655	.20334	1.9545	.20155	.50678	9.0417	29.707	1.5625
Stddev	.00023	.00049	.0015	.00054	.00114	.0267	.034	.0109
%RSD	.27148	.23992	.07498	.26612	.22493	.29519	.11492	.69524
#1	.08678	.20321	1.9555	.20169	.50548	9.0407	29.709	1.5705
#2	.08631	.20388	1.9529	.20095	.50722	9.0155	29.672	1.5501
#3	.08657	.20293	1.9552	.20199	.50763	9.0688	29.740	1.5668

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.8175	9.8176	1.6985	.84835	1.5624	1.2391	2.4952	.85071
Stddev	.0030	.0484	.0031	.00131	.0045	.0059	.0089	.00360
%RSD	.10770	.49274	.18361	.15437	.28752	.47324	.35580	.42366
#1	2.8146	9.8122	1.6949	.84806	1.5637	1.2433	2.4932	.85082
#2	2.8172	9.7722	1.7001	.84720	1.5574	1.2324	2.4875	.84706
#3	2.8206	9.8685	1.7005	.84977	1.5661	1.2416	2.5049	.85426

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.80650	.24193	.88908	.10700	21.691	2.5741	.13845	2.5458
Stddev	.00247	.00107	.00814	.00084	.089	.0107	.00085	.0028
%RSD	.30575	.44384	.91502	.78343	.40815	.41754	.61364	.11127
#1	.80818	.24191	.88975	.10796	21.682	2.5845	.13903	2.5445
#2	.80367	.24086	.88063	.10665	21.784	2.5630	.13748	2.5439
#3	.80765	.24301	.89686	.10640	21.607	2.5747	.13886	2.5491

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4607	.07379	3.8270	.27602	1.4243	4.4356	31.601
Stddev	.0064	.00041	.0203	.00035	.0064	.0143	.088
%RSD	.25997	.56205	.53154	.12524	.44650	.32245	.27934
#1	2.4542	.07423	3.8204	.27602	1.4267	4.4348	31.679
#2	2.4608	.07374	3.8108	.27636	1.4171	4.4218	31.505
#3	2.4670	.07341	3.8498	.27567	1.4292	4.4503	31.618

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S3 Acquired: 10/23/2024 14:31:22 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	877.02	21304.	2783.8	718.20	1627.7
Stddev	1.11	56.	9.0	3.40	1.1
%RSD	.12684	.26471	.32480	.47392	.06979
#1	878.30	21368.	2785.6	718.58	1626.9
#2	876.33	21277.	2791.8	714.63	1629.0
#3	876.42	21265.	2774.0	721.41	1627.2

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S4 Acquired: 10/23/2024 14:35:44 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.17701	.39524	3.8692	.41752	1.0658	18.212	59.169	3.0938
Stddev	.00002	.00124	.0097	.00107	.0024	.140	.359	.0207
%RSD	.01186	.31314	.25080	.25631	.22023	.77045	.60647	.66867
#1	.17700	.39398	3.8608	.41711	1.0680	18.373	59.582	3.1114
#2	.17699	.39645	3.8670	.41873	1.0660	18.116	58.982	3.0710
#3	.17703	.39528	3.8798	.41671	1.0633	18.146	58.942	3.0991

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.5518	19.557	3.3074	1.6867	3.1080	2.4312	4.8978	1.7227
Stddev	.0112	.181	.0045	.0030	.0239	.0254	.0236	.0132
%RSD	.20230	.92683	.13731	.17589	.76832	1.0460	.48182	.76529
#1	5.5462	19.757	3.3126	1.6834	3.1355	2.4601	4.9249	1.7379
#2	5.5445	19.405	3.3055	1.6876	3.0928	2.4122	4.8861	1.7145
#3	5.5648	19.508	3.3042	1.6892	3.0956	2.4215	4.8823	1.7157

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.5929	.45890	1.7872	.21311	44.342	5.1855	.28370	4.9978
Stddev	.0034	.00131	.0107	.00202	.287	.0372	.00072	.0362
%RSD	.21215	.28652	.59902	.94746	.64679	.71824	.25312	.72522
#1	1.5901	.45828	1.7994	.21545	44.296	5.2285	.28314	5.0338
#2	1.5919	.45801	1.7828	.21197	44.080	5.1636	.28451	4.9613
#3	1.5966	.46041	1.7794	.21192	44.648	5.1645	.28346	4.9983

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.0613	.15152	7.5223	.55235	2.8197	9.0661	62.325
Stddev	.0064	.00081	.0518	.00055	.0177	.1006	.275
%RSD	.12569	.53611	.68840	.10023	.62933	1.1093	.44061
#1	5.0622	.15061	7.5738	.55174	2.8402	9.1818	62.613
#2	5.0671	.15219	7.4702	.55248	2.8084	8.9998	62.067
#3	5.0545	.15176	7.5229	.55282	2.8106	9.0167	62.295

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S4 Acquired: 10/23/2024 14:35:44 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	807.11	20714.	2731.3	646.37	1530.3
Stddev	1.49	24.	19.5	4.20	3.5
%RSD	.18436	.11703	.71556	.64993	.22876
#1	806.96	20686.	2709.9	646.68	1533.9
#2	805.71	20727.	2748.2	650.40	1530.1
#3	808.67	20728.	2735.8	642.02	1526.9

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S5 Acquired: 10/23/2024 14:40:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.36190	.75869	7.6621	.90541	2.3555	36.666	115.75	6.0675
Stddev	.00052	.00189	.0058	.00121	.0029	.044	.79	.0194
%RSD	.14491	.24974	.07528	.13388	.12138	.11888	.67845	.31921
#1	.36182	.76064	7.6603	.90518	2.3549	36.644	115.33	6.0865
#2	.36143	.75685	7.6575	.90433	2.3531	36.638	116.66	6.0478
#3	.36246	.75857	7.6686	.90672	2.3587	36.717	115.27	6.0683

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.796	38.488	6.3816	3.3130	6.1243	4.6863	9.4903	3.4456
Stddev	.016	.108	.0117	.0036	.0061	.0081	.0240	.0126
%RSD	.14929	.28160	.18261	.10834	.10003	.17356	.25249	.36676
#1	10.794	38.460	6.3777	3.3129	6.1230	4.6852	9.5104	3.4454
#2	10.782	38.396	6.3947	3.3094	6.1189	4.6787	9.4966	3.4331
#3	10.814	38.607	6.3724	3.3166	6.1310	4.6949	9.4638	3.4583

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.1110	.90123	3.5810	.41828	95.325	10.408	.57653	9.5692
Stddev	.0031	.00219	.0096	.00101	.584	.010	.00072	.0210
%RSD	.10017	.24299	.26749	.24136	.61267	.09162	.12429	.21913
#1	3.1135	.90235	3.5786	.41938	95.026	10.408	.57702	9.5857
#2	3.1075	.90263	3.5728	.41805	94.951	10.418	.57570	9.5763
#3	3.1119	.89870	3.5915	.41740	95.998	10.399	.57686	9.5456

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.861	.31027	14.697	1.0894	5.5332	18.455	121.90
Stddev	.025	.00041	.028	.0009	.0101	.104	.41
%RSD	.23472	.13242	.19286	.07886	.18270	.56191	.34031
#1	10.851	.31067	14.729	1.0892	5.5288	18.388	122.37
#2	10.842	.30985	14.684	1.0903	5.5260	18.403	121.72
#3	10.890	.31030	14.677	1.0886	5.5448	18.575	121.60

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S5 Acquired: 10/23/2024 14:40:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	696.99	19982.	2684.4	522.14	1420.3
Stddev	1.43	42.	5.8	3.22	.9
%RSD	.20463	.20901	.21684	.61583	.06066
#1	697.86	19969.	2677.9	523.35	1420.4
#2	697.76	19949.	2686.2	524.58	1421.0
#3	695.34	20029.	2689.1	518.50	1419.3

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: S6 Acquired: 10/23/2024 14:44:46 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	93.308	59.333	11.890	5.4169	9.5071
Stddev	.348	.288	.053	.0217	.0356
%RSD	.37347	.48596	.44193	.40080	.37477
#1	93.617	59.332	11.896	5.4181	9.5121
#2	92.930	59.622	11.940	5.4380	9.5399
#3	93.377	59.046	11.835	5.3946	9.4692

Int. Std.	Y_3710
Units	Cts/S
Avg	2633.6
Stddev	4.7
%RSD	.17806
#1	2632.3
#2	2638.9
#3	2629.8

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: ICV009 Acquired: 10/23/2024 15:14:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV009 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9725421	1.024718	.9771916	.9776390	1.001264	2.404644
Stddev	.0017823	.003139	.0009017	.0023934	.000919	.021956
%RSD	.1832579	.3063288	.0922732	.2448140	.0917621	.9130821
#1	.9740293	1.024253	.9761644	.9803703	1.001747	2.427488
#2	.9705666	1.028063	.9775579	.9759082	1.000204	2.383698
#3	.9730303	1.021837	.9778525	.9766386	1.001840	2.402747

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5149722	.5228920	.4814397	10.11852	.5656802	.4951865
Stddev	.0019054	.0031697	.0008049	.08553	.0001330	.0006960
%RSD	.3699914	.6061801	.1671802	.8452384	.0235148	.1405546
#1	.5149805	.5198193	.4807946	10.03591	.5656594	.4943838
#2	.5168734	.5261505	.4811829	10.20669	.5658224	.4955548
#3	.5130627	.5227061	.4823417	10.11298	.5655588	.4956210

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4913278	10.92789	.5370688	5.955289	.5074567	.2393690
Stddev	.0014140	.05591	.0036595	.068118	.0005242	.0009979
%RSD	.2877934	.5115874	.6813917	1.143816	.1032890	.4168798
#1	.4914291	10.86358	.5402236	5.889477	.5075157	.2391659
#2	.4898658	10.95518	.5379262	5.950890	.5079489	.2404528
#3	.4926884	10.96491	.5330567	6.025499	.5069056	.2384883

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.830675	.5184790	1.076100	10.44438	F .0075315	F .0102846
Stddev	.033159	.0128255	.002961	.05723	.0027012	.0004441
%RSD	.3373049	2.473674	.2751610	.5479029	35.86533	4.317988
#1	9.845050	.5036876	1.075399	10.39456	.0045298	.0100964
#2	9.792754	.5265096	1.073552	10.43169	.0082984	.0107917
#3	9.854222	.5252399	1.079348	10.50688	.0097664	.0099655

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: ICV009 Acquired: 10/23/2024 15:14:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV009 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000352	F -.000393	F .0012845	F -.001268	F -.000594	F .0001458
Stddev	.000295	.003616	.0003430	.000296	.000247	.0024796
%RSD	83.88468	919.2927	26.70004	23.36832	41.51800	1700.282
#1	-.000340	.003747	.0009102	-.001599	-.000826	.0029549
#2	-.000652	-.001997	.0013597	-.001179	-.000335	-.001738
#3	-.000063	-.002930	.0015837	-.001027	-.000621	-.000779

Elem	Sr4077
Units	ppm
Avg	F .0014299
Stddev	.0000528
%RSD	3.695478
#1	.0014099
#2	.0014899
#3	.0013900

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	970.3156	22222.68	2837.285	808.6349	1877.529
Stddev	1.9008	53.48	9.988	2.6147	3.212
%RSD	.1958943	.2406356	.3520428	.3233464	.1710925
#1	968.2399	22162.10	2840.532	805.8935	1876.444
#2	971.9714	22242.66	2826.077	811.1011	1881.143
#3	970.7353	22263.30	2845.245	808.9101	1875.000

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: ICB009 Acquired: 10/23/2024 15:19:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB009 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018007	.0015832	-.000154	-.003203	-.001104	.0170974	-.000231
Stddev	.0036005	.0018861	.003323	.005806	.001243	.0093862	.000439
%RSD	199.9493	119.1337	2154.825	181.2801	112.6353	54.89844	190.2041
#1	.0013566	-.000483	-.002286	.003491	-.000922	.0074478	-.000049
#2	.0056026	.002019	-.001851	-.006221	-.002428	.0261960	-.000732
#3	-.001557	.003213	.003674	-.006878	.000038	.0176485	.000088

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000905	-.000016	.0153169	-.000603	.0000456	.0002588	-.004796
Stddev	.0000541	.000102	.0139871	.000470	.0004940	.0031894	.023019
%RSD	59.85075	618.9974	91.31796	78.00408	1082.892	1232.199	479.9229
#1	.0000282	.000100	.0128340	-.000277	.0001868	.0039376	-.014328
#2	.0001172	-.000091	.0303792	-.000390	-.000504	-.001730	.021457
#3	.0001260	-.000058	.0027375	-.001141	.000454	-.001431	-.021519

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001052	-.046314	-.000069	.0014140	-.227007	-.007314	.0005379
Stddev	.000939	.018488	.000370	.0002255	.353560	.007167	.0004869
%RSD	89.24977	39.91928	533.7130	15.95045	155.7485	97.98060	90.51715
#1	-.001450	-.054918	-.000474	.0015927	-.137891	-.015467	.0010986
#2	.000020	-.025092	.000014	.0014888	.073469	-.004470	.0002219
#3	-.001727	-.058932	.000252	.0011606	-.616600	-.002006	.0002932

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006890	.0026240	-.000592	.0000850	.0007496	-.000094	-.000045
Stddev	.079093	.0005753	.000740	.0000248	.0022574	.000245	.000664
%RSD	1147.895	21.92513	124.9493	29.19715	301.1511	261.7580	1477.706
#1	-.076432	.0025958	-.000855	.0000677	.0025022	-.000232	.000129
#2	-.023390	.0032130	.000243	.0001135	-.001798	.000189	.000515
#3	.079151	.0020634	-.001165	.0000739	.001544	-.000238	-.000779

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: ICB009 Acquired: 10/23/2024 15:19:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB009 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002023	.0019809	.0000487
Stddev	.000799	.0020962	.0000933
%RSD	39.51546	105.8200	191.7547
#1	-.001331	.0036231	.0001561
#2	-.002898	.0026997	-.000012
#3	-.001840	-.000380	.000002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	964.9312	21917.97	2786.774	807.8217	1900.927
Stddev	1.2284	10.50	1.296	.2345	2.766
%RSD	.1273025	.0479059	.0465196	.0290255	.1454923
#1	963.7225	21906.17	2787.721	807.6022	1897.762
#2	966.1783	21921.45	2787.304	808.0687	1902.878
#3	964.8928	21926.28	2785.296	807.7941	1902.142

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: ICSA009 Acquired: 10/23/2024 15:23:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA009 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094877	-.018102	.0003969	.0074145	-.000833	240.0143
Stddev	.0134277	.002623	.0040574	.0047986	.001864	.5262
%RSD	141.5274	14.49147	1022.344	64.71887	223.8387	.2192211
#1	.0231698	-.018647	-.003315	.0080028	.000267	240.4732
#2	.0089634	-.020410	.004728	.0118919	.000220	239.4400
#3	-.003670	-.015249	-.000222	.0023489	-.002984	240.1297

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051507	.0014594	.0008760	248.8626	.0513433	.0021446
Stddev	.0005976	.0001844	.0001800	.7426	.0008823	.0007076
%RSD	11.60187	12.63553	20.54466	.2983945	1.718421	32.99429
#1	.0047916	.0012486	.0010433	249.1008	.0503306	.0021436
#2	.0048201	.0015909	.0008991	248.0301	.0519458	.0028527
#3	.0058406	.0015387	.0006856	249.4569	.0517535	.0014375

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003781	104.5786	.0098258	243.0086	.0041587	.0055737
Stddev	.002832	.2657	.0006482	.4580	.0007562	.0002091
%RSD	74.91924	.2541077	6.597031	.1884545	18.18431	3.751183
#1	-.004950	104.8742	.0105720	243.5261	.0048924	.0053505
#2	-.005841	104.3594	.0094025	242.6555	.0042019	.0056058
#3	-.000551	104.5022	.0095028	242.8443	.0033818	.0057649

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2719381	-.009380	.0122122	.0387729	.0070567	F .1063632
Stddev	.2042892	.003313	.0007669	.0170346	.0040295	.0010093
%RSD	75.12342	35.31651	6.279832	43.93426	57.10220	.9489270
#1	.0860368	-.006298	.0128905	.0552238	.0035266	.1065327
#2	.2391325	-.012884	.0113800	.0212092	.0061968	.1072771
#3	.4906449	-.008959	.0123660	.0398856	.0114468	.1052799

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: ICSA009 Acquired: 10/23/2024 15:23:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA009 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001075	.0109104	.0002034	-.006374	-.002204	.0027133
Stddev	.000225	.0027465	.0009403	.002380	.002035	.0010527
%RSD	20.93099	25.17275	462.3319	37.34344	92.34383	38.79918
#1	-.000952	.0087806	.0004904	-.008681	-.000866	.0037033
#2	-.000938	.0140102	.0009667	-.003927	-.004546	.0028290
#3	-.001334	.0099404	-.000847	-.006513	-.001200	.0016075

Elem	Sr4077
Units	ppm
Avg	F .1020095
Stddev	.0002686
%RSD	.2632565
#1	.1023076
#2	.1019345
#3	.1017865

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	899.4423	20790.52	2753.600	752.3600	1598.646
Stddev	3.3354	35.91	10.339	2.0494	4.539
%RSD	.3708250	.1727112	.3754673	.2724016	.2838992
#1	897.0771	20777.59	2741.981	750.5484	1595.340
#2	903.2572	20831.10	2761.785	754.5844	1603.820
#3	897.9926	20762.87	2757.033	751.9473	1596.777

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: ICSAB009 Acquired: 10/23/2024 15:28:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB009 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0981114	.0872075	.0492892	.0394631	.5475532	249.1255
Stddev	.0048583	.0023076	.0040711	.0057138	.0028914	.3122
%RSD	4.951774	2.646054	8.259610	14.47896	.5280608	.1253200
#1	.0971967	.0853930	.0527984	.0451112	.5478184	249.4790
#2	.0937755	.0898046	.0502435	.0336857	.5445383	249.0099
#3	.1033620	.0864251	.0448257	.0395922	.5503029	248.8875

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5264045	.5245300	.9896588	257.7410	.6123883	.5143205
Stddev	.0017678	.0025199	.0012373	.6402	.0018472	.0010647
%RSD	.3358293	.4804124	.1250207	.2483787	.3016315	.2070198
#1	.5282877	.5240327	.9904750	258.3179	.6138962	.5151206
#2	.5261451	.5272615	.9902661	257.8529	.6103280	.5147289
#3	.5247807	.5222958	.9882352	257.0523	.6129408	.5131121

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4896617	108.2232	.5403989	252.2192	1.034303	.1907078
Stddev	.0038021	.3520	.0019644	.6610	.002271	.0021887
%RSD	.7764837	.3252718	.3635107	.2620568	.2195714	1.147651
#1	.4867901	108.2556	.5424388	252.5612	1.035918	.1932256
#2	.4882214	108.5578	.5385199	252.6391	1.035286	.1892604
#3	.4939735	107.8561	.5402378	251.4573	1.031707	.1896372

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2943655	.5258588	.9435311	-.088266	F .0108328	F .1094284
Stddev	.2424530	.0057410	.0035773	.163433	.0020433	.0018220
%RSD	82.36463	1.091740	.3791347	185.1591	18.86191	1.665042
#1	.1084105	.5318962	.9469100	-.012891	.0131893	.1074635
#2	.5685859	.5252108	.9438993	-.275785	.0095548	.1097595
#3	.2061000	.5204692	.9397840	.023877	.0097541	.1110622

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: ICSAB009 Acquired: 10/23/2024 15:28:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB009 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001026	-.002013	.0003973	F -.007504	-.003019	.0014943
Stddev	.000089	.003564	.0008411	.000571	.000184	.0013607
%RSD	8.690756	177.0622	211.6772	7.610687	6.107055	91.05861
#1	-.000941	.001466	.0008320	-.008048	-.003216	.0030409
#2	-.001118	-.001849	-.000572	-.007556	-.002850	.0004816
#3	-.001018	-.005655	.000932	-.006909	-.002993	.0009604

Elem	Sr4077
Units	ppm
Avg	F .1059126
Stddev	.0001419
%RSD	.1339972
#1	.1060251
#2	.1057531
#3	.1059595

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	894.0710	20757.24	2755.660	748.3097	1590.235
Stddev	2.3041	67.24	8.858	2.7938	2.208
%RSD	.2577097	.3239120	.3214355	.3733456	.1388691
#1	896.6574	20683.22	2750.455	745.1039	1591.190
#2	893.3179	20773.97	2750.637	749.6003	1587.710
#3	892.2376	20814.54	2765.887	750.2248	1591.806

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: CCV055 Acquired: 10/23/2024 15:32:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV055 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.965243	4.771011	24.28581	4.731845	4.746562	404.7464	10.03394
Stddev	.025591	.033228	.05071	.004654	.018287	1.1286	.00968
%RSD	.5153941	.6964550	.2087999	.0983519	.3852708	.2788414	.0965076
#1	4.965294	4.763042	24.24138	4.727067	4.740250	404.8144	10.02676
#2	4.939627	4.742491	24.27500	4.732104	4.732267	403.5854	10.03012
#3	4.990808	4.807498	24.34105	4.736364	4.767169	405.8395	10.04496

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4993224	2.461038	401.6540	15.28217	2.470208	14.92817	408.5927
Stddev	.0013529	.003973	1.6072	.02166	.003949	.02132	1.5707
%RSD	.2709576	.1614158	.4001425	.1417356	.1598651	.1428474	.3844166
#1	.5005398	2.456626	401.6939	15.26565	2.466144	14.93176	408.8099
#2	.4978658	2.462157	400.0272	15.27417	2.470450	14.90527	406.9246
#3	.4995615	2.464331	403.2409	15.30669	2.474031	14.94747	410.0434

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.74091	392.5636	2.463496	1.246476	402.3501	2.481778	14.42434
Stddev	.01271	1.4312	.006874	.004315	1.2435	.005371	.09457
%RSD	.0861962	.3645778	.2790481	.3461888	.3090527	.2164052	.6556138
#1	14.72660	392.5720	2.455980	1.245588	403.0019	2.487974	14.42772
#2	14.75089	391.1283	2.465041	1.242673	400.9162	2.478452	14.32813
#3	14.74522	393.9907	2.469466	1.251166	403.1321	2.478908	14.51717

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	151.4073	4.962301	5.225597	4.725141	4.975117	4.978676	4.913002
Stddev	.2028	.026252	.006241	.006751	.027380	.008032	.016816
%RSD	.1339334	.5290322	.1194340	.1428646	.5503307	.1613292	.3422842
#1	151.5429	4.934373	5.223258	4.721789	4.943503	4.981540	4.894608
#2	151.1742	4.986472	5.220863	4.720722	4.990677	4.969604	4.916809
#3	151.5048	4.966058	5.232670	4.732912	4.991170	4.984883	4.927588

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: CCV055 Acquired: 10/23/2024 15:32:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV055 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.947595	5.015981	5.028882
Stddev	.015668	.022676	.002733
%RSD	.3166801	.4520679	.0543446
#1	4.953085	5.019675	5.031437
#2	4.929921	4.991685	5.026000
#3	4.959779	5.036583	5.029208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	777.8696	20102.27	2682.867	624.1050	1454.311
Stddev	1.1838	56.78	4.166	4.0821	2.983
%RSD	.1521840	.2824420	.1552906	.6540710	.2050869
#1	778.9096	20158.48	2684.120	624.3755	1457.709
#2	778.1177	20103.38	2686.263	628.0451	1453.099
#3	776.5813	20044.94	2678.218	619.8944	1452.126

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: CCB055 Acquired: 10/23/2024 15:36:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB055 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061046	.0026988	.0029725	-.003406	-.000430	.0355803	.0008841
Stddev	.0032665	.0019133	.0030005	.002776	.002644	.0103503	.0005892
%RSD	53.50789	70.89507	100.9396	81.52107	615.0778	29.09012	66.64176
#1	.0056033	.0040797	.0063541	-.005324	-.003227	.0236359	.0002159
#2	.0031179	.0005148	.0006286	-.004670	-.000092	.0419103	.0011075
#3	.0095928	.0035019	.0019350	-.000222	.002029	.0411946	.0013288

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001098	.0001297	.0313058	.0004295	.0002282	-.000512	.0238765
Stddev	.0001235	.0001544	.0316246	.0004098	.0000738	.001260	.0106683
%RSD	112.5149	118.9937	101.0184	95.41876	32.34231	246.0806	44.68124
#1	.0002522	.0000901	.0036384	.0002277	.0001431	-.000059	.0361248
#2	.0000449	-.000001	.0244997	.0009011	.0002671	.000458	.0188915
#3	.0000322	.000300	.0657792	.0001597	.0002745	-.001935	.0166132

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000104	.0479683	.0000488	.0005466	-.033389	-.012925	.0009792
Stddev	.001130	.0742363	.0006129	.0003944	.205226	.007687	.0002845
%RSD	1087.820	154.7610	1255.362	72.16366	614.6533	59.47788	29.05303
#1	.000944	-.002380	-.000170	.0003114	.189964	-.010157	.0007010
#2	-.001301	.133224	-.000425	.0010019	-.213642	-.021613	.0012696
#3	.000045	.013060	.000741	.0003264	-.076489	-.007005	.0009669

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0857243	.0012362	.0056491	.0005782	-.002415	.0006410	-.000460
Stddev	.0649892	.0023200	.0010205	.0003325	.003074	.0002757	.000777
%RSD	75.81184	187.6730	18.06413	57.50895	127.2666	43.00529	168.7290
#1	.1099790	.0010790	.0063464	.0005977	-.001087	.0005912	-.000978
#2	.1350980	-.001001	.0061230	.0002364	-.000229	.0003937	.000433
#3	.0120959	.003631	.0044778	.0009006	-.005930	.0009383	-.000836

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: CCB055 Acquired: 10/23/2024 15:36:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB055 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001101	.0019050	.0003449
Stddev	.000562	.0024178	.0000136
%RSD	51.03325	126.9149	3.941107
#1	-.000886	.0033464	.0003323
#2	-.001738	.0032550	.0003593
#3	-.000678	-.000886	.0003431

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	974.3580	22045.65	2803.373	805.6939	1913.379
Stddev	1.6607	101.97	3.328	1.9931	3.090
%RSD	.1704449	.4625212	.1187050	.2473782	.1615029
#1	976.2755	22091.78	2806.514	807.7672	1916.814
#2	973.4193	21928.77	2803.718	803.7921	1910.823
#3	973.3793	22116.40	2799.886	805.5223	1912.502

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163989BL Acquired: 10/23/2024 15:48:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS989 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053231	.0002352	-.000088	-.004804	.0003626	.0253396	.0002820
Stddev	.0062692	.0020173	.002019	.003452	.0020207	.0134296	.0001461
%RSD	117.7723	857.7963	2301.551	71.86205	557.2176	52.99848	51.81816
#1	.0094461	.0024235	-.000169	-.000818	.0026728	.0407858	.0001343
#2	.0084145	-.001550	-.002064	-.006779	-.000508	.0164260	.0004264
#3	-.001891	-.000167	.001971	-.006815	-.001076	.0188071	.0002851

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000594	-.000046	.0257265	.0003430	.0000698	-.002738	.0296778
Stddev	.0001241	.000145	.0045843	.0010856	.0004390	.001951	.0074303
%RSD	208.9353	312.8620	17.81920	316.4578	629.2049	71.25176	25.03647
#1	-.000027	-.000198	.0310052	-.000496	-.000326	-.003522	.0241680
#2	.000004	.000091	.0234302	.001569	.000542	-.000517	.0381283
#3	.000202	-.000033	.0227443	-.000044	-.000006	-.004175	.0267370

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004760	-.050673	.0000656	.0013990	.2053175	-.009506	.0005982
Stddev	.0010067	.071832	.0000157	.0007504	.1788070	.001720	.0003586
%RSD	211.4974	141.7563	23.90508	53.64130	87.08801	18.09246	59.95144
#1	-.000255	-.122051	.0000648	.0011391	-.001114	-.007787	.0003066
#2	.000059	.021605	.0000504	.0008130	.305159	-.011227	.0009986
#3	.001624	-.051573	.0000817	.0022448	.311907	-.009504	.0004894

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0131636	-.002571	.0042527	.0005724	.0009744	.0008848	-.001330
Stddev	.0951341	.000968	.0011087	.0001931	.0062242	.0002220	.002516
%RSD	722.7068	37.63980	26.07003	33.73586	638.7523	25.09521	189.1586
#1	.1207980	-.002501	.0049282	.0007167	.0075842	.0008390	.001357
#2	-.021637	-.003571	.0048568	.0003530	-.004774	.0011262	-.003630
#3	-.059670	-.001639	.0029732	.0006475	.000114	.0006892	-.001717

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163989BL Acquired: 10/23/2024 15:48:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS989 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000905	.0020219	.0001932
Stddev	.001031	.0005235	.0000740
%RSD	113.9278	25.89100	38.28673
#1	-.001805	.0025260	.0001078
#2	.000220	.0014809	.0002364
#3	-.001129	.0020587	.0002354

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	960.2899	21760.55	2775.411	795.2997	1885.952
Stddev	1.4165	99.46	10.622	5.7614	.737
%RSD	.1475032	.4570829	.3827158	.7244255	.0391038
#1	958.9040	21763.25	2774.304	789.1858	1885.120
#2	961.7351	21858.63	2765.386	800.6279	1886.525
#3	960.2305	21659.76	2786.543	796.0855	1886.212

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163989BS Acquired: 10/23/2024 15:53:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS989 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198349	.0530967	.0198663	.0612381	.1115565	.4131725
Stddev	.0042855	.0047320	.0025478	.0026134	.0027265	.0063899
%RSD	21.60606	8.912034	12.82483	4.267675	2.444085	1.546549
#1	.0232611	.0583820	.0170409	.0614203	.1113936	.4064705
#2	.0212139	.0492539	.0205692	.0585383	.1143608	.4138510
#3	.0150296	.0516540	.0219890	.0637556	.1089150	.4191962

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4289199	.0110244	.0104360	11.12988	.0234534	.1027480
Stddev	.0017588	.0000447	.0000822	.03370	.0004874	.0007350
%RSD	.4100479	.4058185	.7877069	.3027837	2.077965	.7153807
#1	.4303041	.0110485	.0104505	11.15570	.0237392	.1030495
#2	.4295148	.0110520	.0103476	11.14218	.0237303	.1019101
#3	.4269409	.0109728	.0105101	11.09175	.0228907	.1032843

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0484604	.2192464	.0336559	10.54203	.0861060	.0227482
Stddev	.0022405	.0208489	.0012882	.10971	.0008007	.0000929
%RSD	4.623276	9.509357	3.827463	1.040680	.9298512	.4082550
#1	.0508919	.2082560	.0324061	10.66653	.0861535	.0226476
#2	.0480099	.2061921	.0335823	10.50007	.0852827	.0227662
#3	.0464795	.2432912	.0349793	10.45950	.0868819	.0228307

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.32543	.1008869	.1182779	10.17416	.0175231	F .0023161
Stddev	.12553	.0080094	.0010144	.15959	.0032232	.0009865
%RSD	1.215778	7.938963	.8576249	1.568535	18.39371	42.59300
#1	10.46757	.1100604	.1192426	10.07784	.0138329	.0012800
#2	10.22976	.0973179	.1172202	10.35836	.0189489	.0024242
#3	10.27895	.0952825	.1183710	10.08626	.0197874	.0032441

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163989BS Acquired: 10/23/2024 15:53:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS989 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0190193	.1787849	F .4812625	.0127088	.2076147	.0325768
Stddev	.0006685	.0041803	.0035939	.0023979	.0014914	.0016097
%RSD	3.514989	2.338174	.7467670	18.86839	.7183390	4.941170
#1	.0197323	.1783981	.4771301	.0100424	.2059821	.0316815
#2	.0184065	.1831451	.4836581	.0133957	.2089055	.0316139
#3	.0189192	.1748114	.4829993	.0146884	.2079564	.0344351

Elem	Sr4077
Units	ppm
Avg	.2171383
Stddev	.0002046
%RSD	.0942098
#1	.2169043
#2	.2172833
#3	.2172272

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	966.3308	22044.02	2822.935	803.5671	1863.065
Stddev	1.3771	37.20	11.921	4.2907	3.862
%RSD	.1425037	.1687465	.4222758	.5339538	.2072920
#1	964.7423	22031.53	2835.661	800.8880	1859.011
#2	967.1863	22014.67	2812.030	808.5159	1866.701
#3	967.0639	22085.86	2821.115	801.2974	1863.481

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163989BSD Acquired: 10/23/2024 15:57:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCSD989 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125018	.0284633	.0111272	.0298268	.0559566	.1973768	.2162431
Stddev	.0060206	.0005337	.0016557	.0038126	.0013783	.0198596	.0016306
%RSD	48.15773	1.875126	14.87979	12.78263	2.463198	10.06175	.7540786
#1	.0179180	.0278965	.0129450	.0259753	.0566237	.2060942	.2181158
#2	.0060193	.0289563	.0107311	.0299057	.0543716	.1746494	.2154771
#3	.0135679	.0285371	.0097054	.0335994	.0568744	.2113867	.2151366

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055760	.0051070	5.648302	.0118433	.0511617	.0242503	.1114778
Stddev	.0000721	.0000688	.026876	.0003355	.0005972	.0040170	.0062099
%RSD	1.292531	1.347314	.4758265	2.832483	1.167313	16.56458	5.570510
#1	.0056587	.0050598	5.676114	.0119381	.0518441	.0235670	.1117134
#2	.0055264	.0050752	5.622471	.0121211	.0509071	.0206188	.1175666
#3	.0055430	.0051859	5.646321	.0114706	.0507341	.0285651	.1051535

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174237	5.293923	.0435985	.0119729	5.327674	.0505381	.0582638
Stddev	.0004001	.023911	.0003489	.0002013	.234355	.0045946	.0004289
%RSD	2.296477	.4516771	.8001896	1.680951	4.398826	9.091365	.7361404
#1	.0170346	5.271906	.0433653	.0120648	5.097138	.0464591	.0580693
#2	.0178340	5.319360	.0434307	.0117420	5.565670	.0555156	.0587555
#3	.0174025	5.290504	.0439996	.0121117	5.320215	.0496395	.0579666

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.107008	.0098408	.0003909	.0098874	.0881184	.2428506	.0056777
Stddev	.021021	.0004784	.0005844	.0003057	.0050059	.0006933	.0009539
%RSD	.4116089	4.861474	149.4935	3.091376	5.680821	.2854723	16.80041
#1	5.084964	.0093547	.0005340	.0100229	.0870991	.2428974	.0045774
#2	5.109231	.0098567	-.000252	.0101019	.0935555	.2435192	.0062706
#3	5.126830	.0103111	.000890	.0095374	.0837007	.2421350	.0061852

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163989BSD Acquired: 10/23/2024 15:57:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCSD989 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1047715	.0174108	.1099874
Stddev	.0016461	.0014935	.0005696
%RSD	1.571148	8.578121	.5178984
#1	.1048311	.0191347	.1106449
#2	.1063870	.0165929	.1096721
#3	.1030964	.0165050	.1096450

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	966.0207	21979.36	2804.858	804.0327	1880.872
Stddev	.7095	56.19	9.443	5.2300	.450
%RSD	.0734424	.2556669	.3366650	.6504772	.0239185
#1	965.2618	21924.85	2797.050	800.2248	1881.049
#2	966.1331	22037.10	2815.354	809.9960	1881.206
#3	966.6673	21976.13	2802.171	801.8774	1880.361

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4291-01DLX2 Acquired: 10/23/2024 16:02:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1980030	-.027561	.2481361	-.005273	.0049784	173.5651	.8247336
Stddev	.0057808	.001077	.0019091	.006616	.0005232	.1238	.0009252
%RSD	2.919577	3.909355	.7693818	125.4698	10.50987	.0713151	.1121751
#1	.1978222	-.027621	.2499493	-.011130	.0049856	173.6218	.8246161
#2	.1923147	-.028608	.2483153	-.006591	.0044516	173.6503	.8238728
#3	.2038721	-.026455	.2461437	.001903	.0054980	173.4231	.8257118

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117509	.0073392	36.41692	.2859284	.1158965	.4837107	256.5796
Stddev	.0003771	.0002850	.18232	.0009564	.0009039	.0024925	.5095
%RSD	3.209122	3.883410	.5006386	.3344788	.7799242	.5152944	.1985882
#1	.0117051	.0076353	36.55245	.2870311	.1149684	.4859163	257.0510
#2	.0113987	.0070667	36.48866	.2854280	.1159469	.4842092	256.6488
#3	.0121487	.0073158	36.20964	.2853260	.1167741	.4810066	256.0390

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.942248	55.92331	.2192277	-.019576	1.040877	.4542174	.4867624
Stddev	.008886	.05029	.0008144	.000334	.051191	.0133648	.0015099
%RSD	.1118814	.0899179	.3714772	1.708392	4.918041	2.942373	.3101929
#1	7.932032	55.86683	.2184243	-.019342	.985289	.4534200	.4867413
#2	7.948182	55.96321	.2192063	-.019959	1.051265	.4412691	.4852632
#3	7.946530	55.93989	.2200526	-.019428	1.086076	.4679629	.4882827

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.81606	2.648349	.2994369	-.001034	.8716519	7.381505	.0086882
Stddev	.06469	.008902	.0005125	.000340	.0128305	.026796	.0011806
%RSD	.4366414	.3361209	.1711627	32.83163	1.471969	.3630138	13.58818
#1	14.77839	2.651037	.2989410	-.001424	.8692849	7.411568	.0087777
#2	14.89076	2.638413	.2999646	-.000876	.8601697	7.372815	.0098215
#3	14.77903	2.655597	.2994052	-.000803	.8855010	7.360133	.0074654

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4291-01DLX2 Acquired: 10/23/2024 16:02:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0B5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.289504	.1051219	.1976779
Stddev	.004273	.0018145	.0001150
%RSD	.1866470	1.726079	.0581759
#1	2.289760	.1071120	.1976515
#2	2.293644	.1035593	.1975784
#3	2.285109	.1046944	.1978038

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1030.673	23588.86	3112.388	856.7994	1742.246
Stddev	.733	87.46	17.286	3.6220	2.602
%RSD	.0711059	.3707563	.5553793	.4227377	.1493674
#1	1029.885	23538.88	3092.837	857.1001	1742.987
#2	1031.333	23689.85	3118.683	860.2618	1744.397
#3	1030.801	23537.86	3125.643	853.0365	1739.353

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163991BL Acquired: 10/23/2024 16:06:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS991 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029082	-.000311	-.002042	-.002447	-.000118	.0219748	.0003452
Stddev	.0033443	.000761	.000676	.002218	.001089	.0156890	.0007660
%RSD	114.9938	244.9075	33.09288	90.65809	920.1253	71.39557	221.9299
#1	.0049857	-.000348	-.001575	-.004355	-.000766	.0392208	-.000022
#2	.0046885	-.001052	-.002816	-.002971	.001139	.0085478	-.000168
#3	-.000950	.000468	-.001733	-.000013	-.000728	.0181559	.001226

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000453	-.000123	.0059437	-.000239	-.000252	.0013137	.0012395
Stddev	.0001200	.000119	.0230181	.000205	.000262	.0013615	.0051709
%RSD	264.9129	96.95533	387.2678	85.71022	103.7919	103.6341	417.1766
#1	-.000089	-.000124	-.019603	-.000287	.000029	.0002960	-.004686
#2	.000082	-.000003	.012366	-.000014	-.000489	.0028602	.003563
#3	.000142	-.000242	.025069	-.000415	-.000297	.0007849	.004841

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001542	-.021484	-.000089	.0006073	-.202871	-.016820	-.000186
Stddev	.0006582	.060734	.000432	.0005659	.449885	.008010	.000650
%RSD	426.8235	282.6909	486.5317	93.18248	221.7590	47.62280	349.2006
#1	-.000497	.010249	.000179	.0012164	-.421415	-.008349	.000077
#2	.000819	-.091512	.000142	.0000978	-.501736	-.017837	.000291
#3	.000141	.016810	-.000587	.0005078	.314537	-.024272	-.000926

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0523111	-.000662	-.000670	-.000318	-.002000	.0016406	-.002007
Stddev	.0876247	.000727	.000633	.000349	.004754	.0003527	.001463
%RSD	167.5069	109.6788	94.41491	109.9645	237.6550	21.49761	72.91218
#1	.1424217	-.000542	-.001379	-.000181	-.006240	.0015136	-.003305
#2	.0471076	-.000004	-.000469	-.000715	-.002899	.0013690	-.002293
#3	-.032596	-.001442	-.000163	-.000057	.003139	.0020392	-.000422

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163991BL Acquired: 10/23/2024 16:06:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS991 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000324	.0001483	.0000592
Stddev	.000472	.0005479	.0000684
%RSD	145.8634	369.3902	115.4590
#1	-.000098	.0006678	.0000214
#2	-.000867	-.000424	.0001382
#3	-.000007	.000201	.0000182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	969.8234	22026.85	2796.648	803.8944	1909.008
Stddev	1.9254	41.95	8.370	3.9045	1.940
%RSD	.1985301	.1904668	.2992742	.4856968	.1016403
#1	971.7338	21978.86	2798.239	806.5055	1911.170
#2	969.8531	22045.13	2787.596	799.4058	1908.437
#3	967.8833	22056.56	2804.107	805.7719	1907.417

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163991BS Acquired: 10/23/2024 16:11:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS991 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0224474	.0537329	.0223904	.0550239	.1102836	.4165969
Stddev	.0058527	.0016233	.0020678	.0035755	.0013430	.0083189
%RSD	26.07298	3.021132	9.235151	6.498167	1.217727	1.996878
#1	.0268674	.0555317	.0204589	.0525907	.1107978	.4098361
#2	.0246648	.0532901	.0245718	.0533520	.1112934	.4140676
#3	.0158100	.0523769	.0221405	.0591291	.1087595	.4258869

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4245466	.0108076	.0101133	11.05173	.0231548	.1008926
Stddev	.0020764	.0002042	.0000670	.11598	.0009452	.0001638
%RSD	.4890844	1.889376	.6626580	1.049396	4.082036	.1623703
#1	.4241099	.0107945	.0100361	10.94219	.0222366	.1008364
#2	.4268066	.0110180	.0101470	11.17322	.0231030	.1010771
#3	.4227232	.0106103	.0101567	11.03979	.0241248	.1007642

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0490086	.2269604	.0335331	10.43285	.0845271	.0229978
Stddev	.0028164	.0143099	.0014518	.16682	.0007092	.0000469
%RSD	5.746764	6.305005	4.329460	1.598949	.8390278	.2039508
#1	.0521366	.2117845	.0341167	10.28289	.0852342	.0229966
#2	.0466738	.2402088	.0318804	10.61253	.0838158	.0229514
#3	.0482155	.2288879	.0346024	10.40313	.0845314	.0230452

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.52419	.1029242	.1138596	9.927883	.0206861	F -.000267
Stddev	.18000	.0115316	.0011597	.158188	.0024201	.000510
%RSD	1.710299	11.20401	1.018538	1.593368	11.69896	191.1422
#1	10.33889	.1046120	.1126406	9.945597	.0207413	.000256
#2	10.53532	.0906416	.1139889	10.07647	.0182389	-.000293
#3	10.69837	.1135189	.1149492	9.76158	.0230780	-.000762

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163991BS Acquired: 10/23/2024 16:11:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS991 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0189951	.1739938	F .4770341	.0124401	.2045697	.0312720
Stddev	.0001931	.0031202	.0036618	.0011209	.0035881	.0008333
%RSD	1.016402	1.793301	.7676107	9.009968	1.753956	2.664834
#1	.0188854	.1705428	.4739851	.0111791	.2031286	.0303174
#2	.0188819	.1766158	.4810956	.0133230	.2086543	.0318540
#3	.0192181	.1748227	.4760217	.0128183	.2019262	.0316448

Elem	Sr4077
Units	ppm
Avg	.2152991
Stddev	.0015992
%RSD	.7427772
#1	.2144803
#2	.2171419
#3	.2142751

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	965.7268	21910.62	2802.362	801.2314	1861.959
Stddev	.2797	37.91	17.140	4.5704	2.372
%RSD	.0289579	.1730195	.6116392	.5704218	.1273914
#1	965.4132	21953.29	2815.407	806.4887	1864.229
#2	965.8169	21880.81	2782.949	799.0020	1859.497
#3	965.9502	21897.77	2808.731	798.2036	1862.153

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163991BSD Acquired: 10/23/2024 16:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCSD991 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142579	.0275179	.0104971	.0297453	.0547868	.2274781	.2150678
Stddev	.0046917	.0020192	.0029802	.0006634	.0006830	.0087201	.0006673
%RSD	32.90559	7.337865	28.39084	2.230380	1.246569	3.833377	.3102575
#1	.0106234	.0254070	.0129461	.0301594	.0553888	.2178127	.2152072
#2	.0125962	.0277157	.0113661	.0289801	.0540447	.2347552	.2156543
#3	.0195543	.0294309	.0071789	.0300963	.0549270	.2298665	.2143418

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054795	.0050987	5.576098	.0113309	.0511207	.0281309	.1292294
Stddev	.0000812	.0000435	.033297	.0004697	.0003566	.0033505	.0283326
%RSD	1.482588	.8529004	.5971304	4.145066	.6975694	11.91024	21.92425
#1	.0053969	.0051489	5.614496	.0117109	.0513856	.0314950	.1189454
#2	.0055593	.0050742	5.555208	.0108058	.0512613	.0281035	.1612677
#3	.0054822	.0050729	5.558591	.0114760	.0507153	.0247943	.1074750

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0161223	5.231229	.0427558	.0122500	5.103427	.0433785	.0582993
Stddev	.0015749	.057489	.0004855	.0009982	.283168	.0042539	.0006417
%RSD	9.768488	1.098957	1.135462	8.148267	5.548590	9.806497	1.100656
#1	.0178324	5.258687	.0433162	.0133980	5.195271	.0404892	.0589285
#2	.0147314	5.269840	.0424658	.0115878	5.329274	.0482633	.0583236
#3	.0158031	5.165159	.0424853	.0117640	4.785738	.0413830	.0576458

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.004253	.0084173	-.000816	.0100299	.0852120	.2419255	.0051727
Stddev	.059804	.0026850	.000690	.0001973	.0038698	.0021482	.0009437
%RSD	1.195067	31.89843	84.59693	1.967313	4.541343	.8879724	18.24412
#1	5.073205	.0114591	-.000641	.0098283	.0854652	.2438577	.0060925
#2	4.973058	.0063772	-.000230	.0100387	.0889489	.2423066	.0052188
#3	4.966496	.0074155	-.001577	.0102226	.0812218	.2396122	.0042068

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB163991BSD Acquired: 10/23/2024 16:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCSD991 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1053272	.0140260	.1089380
Stddev	.0013264	.0001053	.0002154
%RSD	1.259319	.7504166	.1976833
#1	.1039175	.0141407	.1091549
#2	.1055134	.0139339	.1087242
#3	.1065506	.0140033	.1089351

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	970.9731	21933.78	2816.863	804.5213	1888.798
Stddev	1.3761	171.64	11.129	8.6224	1.410
%RSD	.1417200	.7825588	.3951001	1.071747	.0746661
#1	969.5712	21737.16	2805.814	794.9051	1887.226
#2	971.0262	22053.70	2816.704	811.5638	1889.952
#3	972.3218	22010.48	2828.071	807.0951	1889.215

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4292-19DLX4 Acquired: 10/23/2024 16:20:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1326476	-.016081	.1120457	-.000172	.0026386	53.84988	1.855057
Stddev	.0041154	.002812	.0035250	.003128	.0006779	.05537	.004741
%RSD	3.102478	17.48582	3.146057	1818.179	25.69020	.1028197	.2555629
#1	.1367550	-.016776	.1107855	.002117	.0020443	53.91379	1.850757
#2	.1285244	-.018481	.1160276	-.003736	.0024946	53.81941	1.860141
#3	.1326633	-.012987	.1093239	.001104	.0033768	53.81645	1.854274

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036371	.0045027	9.081786	.1569598	.0953572	.2950988	189.2651
Stddev	.0000392	.0002544	.074701	.0009030	.0008057	.0057314	.3799
%RSD	1.078948	5.650852	.8225383	.5753196	.8448916	1.942214	.2007407
#1	.0036436	.0043462	9.164388	.1560254	.0951595	.2896720	189.2469
#2	.0036728	.0043656	9.062000	.1578277	.0946687	.2945318	188.8946
#3	.0035951	.0047963	9.018970	.1570263	.0962433	.3010927	189.6539

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.65615	22.10485	.1766614	-.016499	.9301355	.3395559	.3302873
Stddev	.03043	.03795	.0015103	.000304	.5166198	.0045457	.0016703
%RSD	.1723342	.1717040	.8549105	1.843645	55.54242	1.338719	.5057158
#1	17.62133	22.13545	.1779348	-.016215	1.345131	.3413712	.3301930
#2	17.67763	22.06238	.1770568	-.016462	.351518	.3429134	.3286662
#3	17.66949	22.11671	.1749928	-.016820	1.093758	.3343830	.3320028

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.999322	1.964087	.2049376	-.001195	.2089255	3.953179	.0024383
Stddev	.015869	.012268	.0014205	.000363	.0025141	.015349	.0001778
%RSD	.2645063	.6246010	.6931198	30.40576	1.203342	.3882675	7.291965
#1	5.998954	1.954690	.2051494	-.001383	.2116641	3.953151	.0022491
#2	5.983641	1.959606	.2034231	-.000776	.2067220	3.937844	.0026019
#3	6.015371	1.977965	.2062402	-.001426	.2083905	3.968542	.0024638

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4292-19DLX4 Acquired: 10/23/2024 16:20:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.588248	.0454161	.1572782
Stddev	.005920	.0010574	.0001775
%RSD	.3727401	2.328344	.1128349
#1	1.594757	.0449700	.1570875
#2	1.583184	.0466235	.1574385
#3	1.586803	.0446548	.1573085

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1007.725	23072.67	2954.362	839.4825	1817.605
Stddev	.894	61.42	8.465	2.5555	5.087
%RSD	.0887577	.2662002	.2865163	.3044097	.2798857
#1	1007.020	23078.07	2947.700	836.9381	1817.685
#2	1008.731	23008.73	2963.887	842.0489	1822.651
#3	1007.425	23131.22	2951.501	839.4605	1812.478

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4292-15ADLX2 Acquired: 10/23/2024 16:24:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W2A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7911970	-.042029	.1525211	-.003479	.0061313	140.7531	1.266715
Stddev	.0057392	.002907	.0054917	.004710	.0038406	.3380	.002237
%RSD	.7253813	6.917798	3.600605	135.3942	62.64041	.2401636	.1766043
#1	.7851417	-.043505	.1480065	-.003679	.0042761	140.6026	1.269199
#2	.7965567	-.038680	.1586349	-.008085	.0035704	140.5165	1.264859
#3	.7918925	-.043902	.1509218	.001328	.0105473	141.1403	1.266087

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081752	.0083300	31.59993	.3907799	.1980458	.4815787	358.1494
Stddev	.0001731	.0001830	.16244	.0004385	.0013738	.0022799	1.7907
%RSD	2.117245	2.196969	.5140436	.1122199	.6936966	.4734163	.4999967
#1	.0080123	.0081228	31.50675	.3905639	.1974974	.4828415	357.3702
#2	.0083570	.0084696	31.50555	.3912846	.1970308	.4789468	356.8804
#3	.0081562	.0083976	31.78750	.3904913	.1996091	.4829477	360.1978

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.09642	73.26983	.3210725	-.029024	1.694199	.7242319	.5322107
Stddev	.03122	.16511	.0007735	.000413	.165863	.0097228	.0022906
%RSD	.2383981	.2253489	.2409187	1.423143	9.790073	1.342502	.4303877
#1	13.07264	73.07940	.3210268	-.028749	1.884628	.7204265	.5331436
#2	13.08485	73.35706	.3203228	-.028823	1.616687	.7169873	.5338877
#3	13.13178	73.37304	.3218678	-.029499	1.581282	.7352818	.5296009

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.91875	3.663091	.3875523	-.000972	.3109208	8.050268	.0102153
Stddev	.05321	.022542	.0005843	.000311	.0054596	.021148	.0047648
%RSD	.3145204	.6153912	.1507530	32.00804	1.755934	.2626957	46.64357
#1	16.85858	3.639086	.3874064	-.000654	.3096026	8.025878	.0150560
#2	16.93805	3.666376	.3870548	-.000984	.3169187	8.063488	.0100598
#3	16.95963	3.683810	.3881957	-.001276	.3062410	8.061439	.0055302

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4292-15ADLX2 Acquired: 10/23/2024 16:24:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD0W2A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.855119	.1112684	.2099938
Stddev	.010582	.0014042	.0007061
%RSD	.3706491	1.262000	.3362581
#1	2.843688	.1128598	.2097584
#2	2.864574	.1102035	.2094354
#3	2.857096	.1107420	.2107875

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1020.790	23639.34	3076.118	849.7462	1735.697
Stddev	4.545	15.53	20.327	4.1985	8.204
%RSD	.4452417	.0656778	.6607908	.4940889	.4726608
#1	1023.261	23622.67	3093.331	844.9522	1740.057
#2	1023.565	23641.96	3081.329	852.7678	1740.801
#3	1015.545	23653.39	3053.693	851.5188	1726.234

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4297-08DLX4 Acquired: 10/23/2024 16:34:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYDA60 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2149906	-.027315	.1191867	-.007988	.0068253	64.84574	1.149130
Stddev	.0078663	.005523	.0009499	.003799	.0008552	.08193	.002322
%RSD	3.658896	20.21981	.7969981	47.56034	12.52919	.1263505	.2020815
#1	.2228388	-.022990	.1202832	-.011620	.0078007	64.77088	1.146943
#2	.2150268	-.033536	.1186648	-.004042	.0062043	64.83306	1.148879
#3	.2071063	-.025418	.1186122	-.008302	.0064708	64.93327	1.151567

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049897	.0065163	5.972492	.2518256	.1632713	.2754482	325.6171
Stddev	.0001940	.0001028	.030264	.0005744	.0007936	.0033186	.8457
%RSD	3.887661	1.577784	.5067172	.2281107	.4860384	1.204816	.2597221
#1	.0047661	.0065773	5.992508	.2524571	.1623612	.2758790	325.6970
#2	.0051134	.0063976	5.937676	.2513342	.1636340	.2785304	326.4200
#3	.0050895	.0065741	5.987290	.2516853	.1638187	.2719352	324.7343

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.91617	38.27748	.1829718	-.026898	1.151677	.5498150	.4124604
Stddev	.06831	.05517	.0006841	.000319	.127778	.0031541	.0017192
%RSD	.3429767	.1441313	.3738975	1.184876	11.09497	.5736683	.4168153
#1	19.84630	38.24536	.1827328	-.027187	1.268513	.5532687	.4144197
#2	19.91942	38.34119	.1824392	-.026556	1.171293	.5490896	.4117572
#3	19.98280	38.24590	.1837434	-.026950	1.015225	.5470868	.4112042

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.78570	2.439578	.3412286	-.000884	.2781665	2.295191	.0064891
Stddev	.11527	.005491	.0005804	.000597	.0037240	.010910	.0007144
%RSD	.9015327	.2251004	.1700948	67.47567	1.338775	.4753258	11.00969
#1	12.76917	2.434120	.3416334	-.001049	.2814339	2.296723	.0065147
#2	12.67959	2.445103	.3414889	-.001381	.2789539	2.305254	.0071904
#3	12.90834	2.439510	.3405637	-.000223	.2741118	2.283596	.0057623

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4297-08DLX4 Acquired: 10/23/2024 16:34:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYDA60 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.364670	.0539726	.1431616
Stddev	.003201	.0007246	.0003606
%RSD	.2345384	1.342477	.2518924
#1	1.368228	.0543579	.1428562
#2	1.362026	.0531367	.1430691
#3	1.363755	.0544231	.1435594

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	984.0639	22623.61	2928.691	815.1393	1790.427
Stddev	2.4072	29.15	7.641	2.3943	4.130
%RSD	.2446233	.1288679	.2608939	.2937326	.2306524
#1	981.2849	22590.18	2927.125	812.5874	1787.642
#2	985.5057	22643.75	2921.954	815.4940	1795.172
#3	985.4010	22636.91	2936.993	817.3365	1788.468

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4297-14ADLX2 Acquired: 10/23/2024 16:38:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYDA66A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7008911	-.050402	.1567022	.0582337	.0066175	116.6900	1.511817
Stddev	.0090903	.001096	.0054016	.0059531	.0026138	.2865	.002710
%RSD	1.296962	2.175330	3.447046	10.22276	39.49893	.2454844	.1792672
#1	.6928265	-.049141	.1519883	.0565699	.0089494	116.9900	1.513604
#2	.6991049	-.050938	.1555219	.0532895	.0037921	116.4193	1.508698
#3	.7107419	-.051128	.1625963	.0648417	.0071108	116.6608	1.513148

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091804	.0108915	17.74415	.4246561	.2204506	.4391375	444.6811
Stddev	.0001502	.0002668	.13982	.0008910	.0006519	.0030040	1.2675
%RSD	1.636461	2.449132	.7879627	.2098151	.2957254	.6840575	.2850427
#1	.0090424	.0108225	17.76378	.4252610	.2197464	.4425765	445.9880
#2	.0091584	.0111860	17.59555	.4236329	.2205724	.4378105	443.4570
#3	.0093405	.0106661	17.87311	.4250743	.2210331	.4370256	444.5982

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.50428	58.25723	.3660392	-.036470	1.532245	.8709727	.5659598
Stddev	.02594	.10168	.0018818	.000291	.160745	.0071692	.0050183
%RSD	.1788415	.1745304	.5140840	.7982003	10.49082	.8231229	.8866923
#1	14.53418	58.34185	.3645090	-.036798	1.715242	.8769154	.5676565
#2	14.48781	58.14444	.3654685	-.036369	1.467634	.8630103	.5603131
#3	14.49084	58.28540	.3681403	-.036242	1.413858	.8729923	.5699098

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	32.69745	5.687819	.4852078	.0001639	.6738055	5.919509	.0088858
Stddev	.10171	.020896	.0024805	.0002117	.0203960	.031621	.0009218
%RSD	.3110782	.3673876	.5112190	129.1757	3.026994	.5341777	10.37401
#1	32.60987	5.665219	.4848969	.0003636	.6808135	5.948416	.0078561
#2	32.67347	5.706440	.4828974	.0001860	.6508293	5.924375	.0096340
#3	32.80902	5.691799	.4878290	-.000058	.6897737	5.885738	.0091673

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4297-14ADLX2 Acquired: 10/23/2024 16:38:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYDA66A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.505471	.0833995	.2248713
Stddev	.005932	.0007902	.0004264
%RSD	.2367788	.9474906	.1896156
#1	2.502392	.0832402	.2253594
#2	2.501710	.0842572	.2245714
#3	2.512310	.0827011	.2246831

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1028.208	23802.72	3096.028	855.9586	1763.657
Stddev	3.506	30.74	8.830	9.1723	5.248
%RSD	.3409388	.1291579	.2852094	1.071577	.2975886
#1	1030.884	23807.16	3085.855	853.9463	1769.651
#2	1029.499	23831.00	3100.514	865.9699	1761.432
#3	1024.240	23769.99	3101.714	847.9595	1759.887

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB164125BL Acquired: 10/23/2024 16:43:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS125 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076762	.0016975	-.000582	-.006533	-.000813	.0375229	.0004713
Stddev	.0042384	.0019592	.000614	.002325	.001537	.0089655	.0006276
%RSD	55.21460	115.4134	105.4872	35.58453	188.9898	23.89348	133.1530
#1	.0125205	-.000104	-.000469	-.003937	-.001987	.0310990	.0009860
#2	.0046514	.001414	-.000033	-.007239	.000927	.0477655	-.000228
#3	.0058567	.003783	-.001245	-.008422	-.001381	.0337041	.000656

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002256	-.000171	.0135640	.0001266	.0003183	-.001373	.0727097
Stddev	.0001149	.000078	.0064097	.0005391	.0002435	.000335	.0218225
%RSD	50.94234	45.25978	47.25547	425.7463	76.50371	24.39246	30.01326
#1	.0000971	-.000248	.0205786	.0005581	.0005759	-.001139	.0574361
#2	.0003186	-.000172	.0121015	.0002995	.0002870	-.001224	.0629895
#3	.0002610	-.000093	.0080119	-.000478	.0000919	-.001757	.0977033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010871	.0648949	-.000375	.0009546	-.114082	-.009731	-.000283
Stddev	.0022073	.0269091	.000934	.0004349	.127470	.004840	.000546
%RSD	203.0419	41.46565	249.1774	45.55754	111.7357	49.73313	192.9065
#1	.0004268	.0959592	-.000015	.0014565	-.246238	-.010841	-.000698
#2	-.000715	.0499565	-.001436	.0006897	.008119	-.013919	.000335
#3	.003549	.0487689	.000326	.0007177	-.104127	-.004433	-.000485

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1198332	-.000945	-.000892	-.000128	.0019994	.0016658	-.000869
Stddev	.0527778	.004546	.000733	.000163	.0053639	.0002525	.001106
%RSD	44.04271	480.9977	82.10704	127.0790	268.2685	15.15745	127.2266
#1	.1772315	-.006183	-.001706	-.000178	.0080743	.0018775	-.000657
#2	.1088703	.001372	-.000686	.000054	-.002083	.0013864	-.002066
#3	.0733978	.001976	-.000285	-.000260	.000007	.0017336	.000115

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB164125BL Acquired: 10/23/2024 16:43:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS125 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001712	-.008526	.0001229
Stddev	.0018765	.000629	.0001703
%RSD	1095.810	7.377417	138.6030
#1	-.000363	-.007897	.0000427
#2	.002257	-.008526	.0000074
#3	-.001380	-.009154	.0003184

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	969.7107	21924.38	2815.542	803.3731	1910.288
Stddev	1.5943	15.05	4.415	2.4876	3.946
%RSD	.1644103	.0686457	.1568244	.3096422	.2065576
#1	967.8757	21941.69	2816.682	802.7223	1905.733
#2	970.5001	21917.13	2810.668	801.2757	1912.491
#3	970.7563	21914.33	2819.275	806.1214	1912.640

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB164125BSD Acquired: 10/23/2024 16:52:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCSD125 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092674	.0267641	.0087445	.0280567	.0545991	.2077192	.2098644
Stddev	.0056076	.0021424	.0039213	.0003523	.0019403	.0052509	.0028406
%RSD	60.50958	8.004705	44.84345	1.255758	3.553801	2.527888	1.353530
#1	.0039342	.0268595	.0087276	.0278840	.0567846	.2128489	.2067186
#2	.0151142	.0245756	.0126742	.0284620	.0539336	.2079539	.2122416
#3	.0087538	.0288572	.0048316	.0278240	.0530791	.2023549	.2106330

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054634	.0050555	5.526260	.0115597	.0509254	.0257296	.1243074
Stddev	.0001602	.0000359	.046256	.0002743	.0002915	.0015996	.0109836
%RSD	2.933100	.7108064	.8370208	2.372474	.5724607	6.216909	8.835843
#1	.0052866	.0050358	5.473010	.0114803	.0509944	.0271839	.1205851
#2	.0055043	.0050336	5.549290	.0118649	.0511762	.0259886	.1156687
#3	.0055991	.0050969	5.556480	.0113339	.0506055	.0240164	.1366685

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165967	5.135144	.0425788	.0123667	4.851886	.0446775	.0581584
Stddev	.0008680	.028629	.0002062	.0008191	.254364	.0055549	.0006012
%RSD	5.229851	.5575079	.4843789	6.623483	5.242584	12.43331	1.033754
#1	.0156526	5.160464	.0426802	.0128579	4.673596	.0410790	.0587424
#2	.0173602	5.104078	.0423415	.0114211	4.738890	.0418784	.0581914
#3	.0167772	5.140891	.0427148	.0128211	5.143171	.0510751	.0575413

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.215702	.0121150	-.000317	.0097910	.0870335	.2381642	.0060027
Stddev	.063318	.0014320	.000373	.0002318	.0041155	.0008014	.0007210
%RSD	1.213979	11.82029	117.9365	2.367753	4.728641	.3364818	12.01180
#1	5.151251	.0134737	-.000275	.0099229	.0917492	.2375627	.0066094
#2	5.277822	.0122518	.000034	.0095233	.0851842	.2378560	.0052055
#3	5.218033	.0106195	-.000709	.0099268	.0841670	.2390740	.0061931

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: PB164125BSD Acquired: 10/23/2024 16:52:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCSD125 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1026084	.0066480	.1076176
Stddev	.0017325	.0004889	.0005079
%RSD	1.688409	7.353619	.4719788
#1	.1006258	.0070321	.1070370
#2	.1033684	.0068142	.1079802
#3	.1038310	.0060977	.1078354

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	970.4358	21863.45	2818.305	802.7056	1894.014
Stddev	3.4626	86.93	9.798	4.8017	3.951
%RSD	.3568090	.3976202	.3476705	.5981880	.2085998
#1	966.7416	21763.77	2827.907	797.7772	1889.545
#2	973.6073	21903.08	2808.321	802.9699	1897.041
#3	970.9586	21923.51	2818.686	807.3697	1895.456

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4298-16ADLX2 Acquired: 10/23/2024 16:56:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYDA88A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5667533	-.051157	.2303085	.0631917	.1245538	178.3619	.7364825
Stddev	.0040851	.002139	.0022498	.0061227	.0026686	.3964	.0020209
%RSD	.7207894	4.181254	.9768775	9.689070	2.142541	.2222214	.2744031
#1	.5712627	-.049150	.2317453	.0601159	.1262281	178.8187	.7382658
#2	.5656973	-.050913	.2314646	.0592167	.1259570	178.1084	.7342874
#3	.5632998	-.053408	.2277157	.0702425	.1214763	178.1588	.7368944

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081170	.0120414	19.33030	.6085508	.3082594	.9343165	460.2961
Stddev	.0003643	.0001972	.16874	.0025230	.0005989	.0045925	.3354
%RSD	4.488649	1.637742	.8729095	.4145944	.1942768	.4915333	.0728610
#1	.0080433	.0122692	19.37040	.6065919	.3076416	.9387220	460.3334
#2	.0085126	.0119265	19.47538	.6113978	.3088374	.9295575	460.6113
#3	.0077951	.0119287	19.14513	.6076626	.3082992	.9346698	459.9437

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.785896	110.7750	.4302639	-.033145	1.596900	1.108778	.7560248
Stddev	.037421	.2877	.0010113	.000673	.290808	.011422	.0019849
%RSD	.3824008	.2596826	.2350384	2.031872	18.21080	1.030178	.2625449
#1	9.805422	111.1051	.4313737	-.033921	1.892349	1.101571	.7571699
#2	9.742750	110.5776	.4300238	-.032712	1.587387	1.102816	.7571716
#3	9.809515	110.6424	.4293943	-.032802	1.310966	1.121948	.7537328

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.10161	4.738416	.4908515	-.001643	.7977517	5.670071	.0093364
Stddev	.13792	.014136	.0019991	.000945	.0008825	.006425	.0018887
%RSD	.6240287	.2983218	.4072642	57.53354	.1106269	.1133201	20.22920
#1	22.18120	4.741739	.4926802	-.001002	.7985875	5.675520	.0104385
#2	22.18129	4.722916	.4911571	-.002729	.7978387	5.671708	.0104152
#3	21.94236	4.750595	.4887173	-.001199	.7968289	5.662986	.0071556

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: P4298-16ADLX2 Acquired: 10/23/2024 16:56:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYDA88A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.774354	.0916360	.1523828
Stddev	.008565	.0009764	.0007344
%RSD	.2269283	1.065474	.4819352
#1	3.783254	.0905132	.1529278
#2	3.773638	.0922854	.1515477
#3	3.766169	.0921094	.1526730

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	991.2524	22913.29	3012.432	819.9973	1734.152
Stddev	1.3309	49.42	3.891	2.9526	3.221
%RSD	.1342600	.2156936	.1291597	.3600796	.1857470
#1	990.9569	22964.80	3008.375	819.0060	1733.224
#2	992.7062	22866.26	3016.132	817.6679	1737.735
#3	990.0942	22908.80	3012.791	823.3180	1731.496

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: CCV056 Acquired: 10/23/2024 17:01:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV056 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.950598	4.789297	24.27277	4.767049	4.745220	401.4972	9.934059
Stddev	.014178	.024371	.02766	.017837	.006683	.8097	.005484
%RSD	.2863868	.5088571	.1139723	.3741722	.1408434	.2016716	.0552044
#1	4.934822	4.761604	24.26429	4.780408	4.752050	401.6735	9.938565
#2	4.962275	4.807472	24.25035	4.746793	4.738694	402.2042	9.927953
#3	4.954697	4.798816	24.30369	4.773945	4.744915	400.6138	9.935658

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4897760	2.459272	399.4246	15.45812	2.471362	14.86229	403.8364
Stddev	.0040156	.002366	1.5858	.03004	.003443	.01716	1.4850
%RSD	.8198948	.0961884	.3970100	.1943174	.1393126	.1154319	.3677243
#1	.4894097	2.456698	399.7033	15.48360	2.471280	14.87795	404.2611
#2	.4939623	2.459764	400.8524	15.42500	2.467960	14.84395	405.0628
#3	.4859561	2.461352	397.7179	15.46576	2.474845	14.86497	402.1853

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.71982	389.1286	2.459584	1.238800	402.5950	2.471757	14.48789
Stddev	.01212	1.2674	.006955	.000579	1.0773	.013120	.07156
%RSD	.0823075	.3256913	.2827784	.0467425	.2675999	.5307862	.4939073
#1	14.70666	389.3564	2.453025	1.238167	403.0293	2.480372	14.49292
#2	14.73050	390.2666	2.458850	1.238929	403.3875	2.478242	14.41396
#3	14.72229	387.7628	2.466877	1.239303	401.3683	2.456658	14.55681

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	152.1701	4.989038	5.227780	4.712406	4.997215	4.921297	4.907057
Stddev	.1640	.014754	.018048	.011857	.007927	.020923	.015931
%RSD	.1077531	.2957291	.3452366	.2516164	.1586355	.4251526	.3246462
#1	152.3398	4.993061	5.237652	4.706131	4.995859	4.920094	4.888696
#2	152.0126	5.001364	5.238739	4.705006	4.990054	4.942796	4.915264
#3	152.1578	4.972690	5.206949	4.726082	5.005733	4.901002	4.917210

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: CCV056 Acquired: 10/23/2024 17:01:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV056 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.928820	4.968818	5.006046
Stddev	.003774	.022585	.002986
%RSD	.0765799	.4545252	.0596417
#1	4.927898	4.984307	5.006807
#2	4.932970	4.979244	5.008578
#3	4.925592	4.942904	5.002754

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	782.1245	20006.23	2698.363	619.0993	1462.687
Stddev	1.7040	64.38	8.180	4.7909	2.753
%RSD	.2178725	.3217835	.3031469	.7738471	.1881931
#1	783.6824	20020.91	2703.559	619.4555	1465.852
#2	782.3864	20062.00	2688.934	623.7021	1460.852
#3	780.3047	19935.78	2702.595	614.1402	1461.357

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: CCB056 Acquired: 10/23/2024 17:05:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB056 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070457	.0028965	.0039812	-.004585	.0011429	.0839623	.0009328
Stddev	.0017299	.0004844	.0010347	.004692	.0019083	.0128130	.0006468
%RSD	24.55209	16.72454	25.98891	102.3254	166.9667	15.26041	69.33482
#1	.0055287	.0031749	.0050506	-.009393	.0026426	.0951389	.0016415
#2	.0089296	.0031775	.0039079	-.004344	-.001005	.0699784	.0007826
#3	.0066789	.0023372	.0029852	-.000019	.001791	.0867696	.0003744

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001392	.0001731	.0664286	.0014858	-.000020	.0026525	.0863964
Stddev	.0002156	.0000670	.0021420	.0002137	.000151	.0024070	.0192086
%RSD	154.9009	38.69916	3.224578	14.38479	739.4472	90.74584	22.23313
#1	-.000108	.0000958	.0643971	.0016656	-.000184	.0053430	.0938558
#2	.000291	.0002113	.0686663	.0015422	.000112	.0019110	.1007565
#3	.000234	.0002124	.0662223	.0012495	.000011	.0007035	.0645769

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021868	.0171930	.0004052	.0012763	-.355218	-.009889	.0014120
Stddev	.0008678	.0388409	.0008895	.0002061	.161186	.008792	.0005167
%RSD	39.68532	225.9107	219.5356	16.14643	45.37663	88.90572	36.59593
#1	.0031739	-.013096	.0012823	.0015126	-.541262	.000261	.0011185
#2	.0018429	.060983	-.000496	.0011824	-.257560	-.015130	.0011089
#3	.0015437	.003692	.000429	.0011339	-.266832	-.014797	.0020086

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2493911	.0001648	.0046873	.0005339	.0013319	.0005216	-.002198
Stddev	.0995847	.0021364	.0021007	.0002940	.0016010	.0001014	.000693
%RSD	39.93114	1296.116	44.81665	55.06621	120.2069	19.44411	31.54484
#1	.2429189	.0013289	.0068616	.0005583	.0007748	.0005922	-.002101
#2	.1532003	-.002301	.0026689	.0002285	.0000838	.0004054	-.002935
#3	.3520540	.001466	.0045316	.0008149	.0031370	.0005673	-.001559

Reviewed By:Jaswal
On:10/25/2024 1:47:35 AM
Inst Id :P5

Sample Name: CCB056 Acquired: 10/23/2024 17:05:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v707) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB056 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001027	-.004811	.0007508
Stddev	.001200	.001843	.0001700
%RSD	116.8976	38.30817	22.64061
#1	-.002384	-.002732	.0007216
#2	-.000595	-.006243	.0009334
#3	-.000102	-.005459	.0005973

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	968.9422	21828.54	2796.126	796.2502	1908.962
Stddev	2.5292	23.36	3.798	6.8318	3.715
%RSD	.2610314	.1070177	.1358472	.8579940	.1945889
#1	966.2650	21848.56	2799.800	799.3257	1904.872
#2	969.2703	21834.18	2792.214	801.0036	1912.125
#3	971.2914	21802.87	2796.364	788.4212	1909.890

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Prep Standard - Chemical Standard Summary

Order ID : P4291

Test : Metals CLP Full

Prepbatch ID : PB163989,

Sequence ID/Qc Batch ID: LB133008,LB133105,

Standard ID :
MP81119,MP82127,MP82441,MP82442,MP82443,MP82444,MP82445,MP82446,MP82450,MP82451,MP82452,MP82453,MP82455,MP82456,MP82631,MP82632,MP82711,MP82731,

Chemical ID :
M4960,M5130,M5192,M5218,M5223,M5288,M5289,M5295,M5296,M5390,M5394,M5429,M5467,M5473,M5498,M5513,M5515,M5519,M5634,M5658,M5697,M5698,M5747,M5748,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5814,M5815,M5816,M5817,M5818,M5819,M5820,M5875,M5935,M5961,M5962,M5970,M5976,M5978,M5982,M5984,M5990,M5999,M6021,M6023,M6025,M6028,M6030,M6033,M6037,M6040,M6083,W2606,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP81119	06/21/2024	10/24/2024	Al-Terek Isaac	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/21/2024

FROM 1250.00000ml of M5935 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP82127	09/03/2024	02/08/2025	Janvi Patel	None	None	Sarabjit Jaswal 09/03/2024

FROM 1250.00000ml of M6040 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP82441	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 125.00000ml of M6040 + 2350.00000ml of W3112 + 25.00000ml of M6037 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP82442	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5769 + 4.00000ml of M5806 + 30.00000ml of MP82441 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP82443	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5473 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5698 + 12.50000ml of M5806 + 12.50000ml of M5819 + 13.75000ml of M5697 + 14.50000ml of M5515 + 14.50000ml of M5658 + 14.50000ml of M6033 + 2.00000ml of M5513 + 22.50000ml of M5498 + 22.50000ml of M5769 + 5.00000ml of M5296 + 5.00000ml of M5394 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP82441 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP82444	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 250.00000ml of MP82441 + 250.00000ml of MP82443 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP82445	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 25.00000ml of MP82443 + 75.00000ml of MP82441 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1008	ICPAES ISM01.2(S2)	MP82446	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 12.50000ml of MP82443 + 87.50000ml of MP82441 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2054	ICV-ICPAES	MP82450	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 0.50000ml of M5218 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 0.50000ml of M5982 + 10.00000ml of M5295 + 87.50000ml of MP82441 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP82451	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 25.00000ml of M5130 + 225.00000ml of MP82441 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP82452	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 25.00000ml of M5130 + 25.00000ml of M5223 + 200.00000ml of MP82441 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	MP82453	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 0.75000ml of M5498 + 0.75000ml of M5769 + 1.22500ml of M6033 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP82441 + 25.00000ml of MP82443 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP82455	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 1.00000ml of M5984 + 10.00000ml of M4960 + 1969.00000ml of W3112 + 20.00000ml of M6037 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP82456	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 200.00000ml of M6037 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP82631	10/02/2024	10/23/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 10/02/2024

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5473 + 0.20000ml of M5515 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5976 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M5698 + 0.40000ml of M6033 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5961 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5498 + 10.00000ml of M5519 + 10.00000ml of M5769 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 34.24000ml of MP82441 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP82632	10/02/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 10/02/2024

FROM 0.50000ml of MP82631 + 87.50000ml of MP82441 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP82711	10/07/2024	10/23/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 10/07/2024

FROM 0.00300ml of M6028 + 0.03000ml of M5798 + 0.05000ml of M5515 + 0.05000ml of M5658 + 0.05000ml of M6030 + 0.05000ml of M6033 + 0.06000ml of M5747 + 0.10000ml of M5697 + 0.10000ml of M5698 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M5982 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M5819 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.25000ml of M5467 + 0.25000ml of M5802 + 0.50000ml of M5390 + 0.50000ml of M5814 + 1.00000ml of M5192 + 1.00000ml of M5288 + 1.00000ml of M5498 + 1.00000ml of M5769 + 1.00000ml of M5806 + 1.00000ml of M5978 + 2.00000ml of M5816 + 2.00000ml of M5818 + 77.68000ml of MP82441 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP82731	10/04/2024	10/23/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 10/08/2024

FROM 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP82441 = Final Quantity: 250.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	100721	10/07/2024	10/09/2021 / jaswal	10/08/2021 / jaswal	M4960

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	11/19/2024	05/20/2024 / jaswal	04/20/2021 / bin	M5130

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 #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	S2-MEB711674	11/02/2026	07/01/2022 / bin	09/10/2021 / bin	M5218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	11/19/2024	05/20/2024 / jaswal	04/20/2021 / bin	M5223

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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	02/20/2020 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	11/28/2022 / bin	09/19/2022 / bin	M5394

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	02/03/2025	04/18/2024 / jaswal	08/03/2022 / Al-Terek	M5634

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57005 / B, 1000 PPM, 125 ml	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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 #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	12/08/2024	06/21/2024 / Al-Terek	06/07/2024 / Al-Terek	M5935

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/02/2024 / Jaswal	06/11/2024 / Jaswal	M5961

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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 #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	08/05/2024 / kareem	06/14/2024 / Jaswal	M5984

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-5 / CLP Spike Standard 5	V2-MEB742037	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5990

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	06/12/2027	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	01/25/2019 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	02/02/2025	08/24/2024 / Janvi	08/01/2024 / Janvi	M6037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	24D1562005	02/08/2025	08/09/2024 / jaswal	08/01/2024 / Janvi	M6040

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	03/25/2029	10/06/2024 / Janvi	09/02/2024 / Janvi	M6083

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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R: 02/22/24 M5986 M5987, M5988, M5989-M5990

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-5
Lot Number:	V2-MEB742037
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Selenium, Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead

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	49.99 ± 0.22 µg/mL	Lead, Pb	19.99 ± 0.09 µg/mL
Selenium, Se	50.00 ± 0.23 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R 8/5/24

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

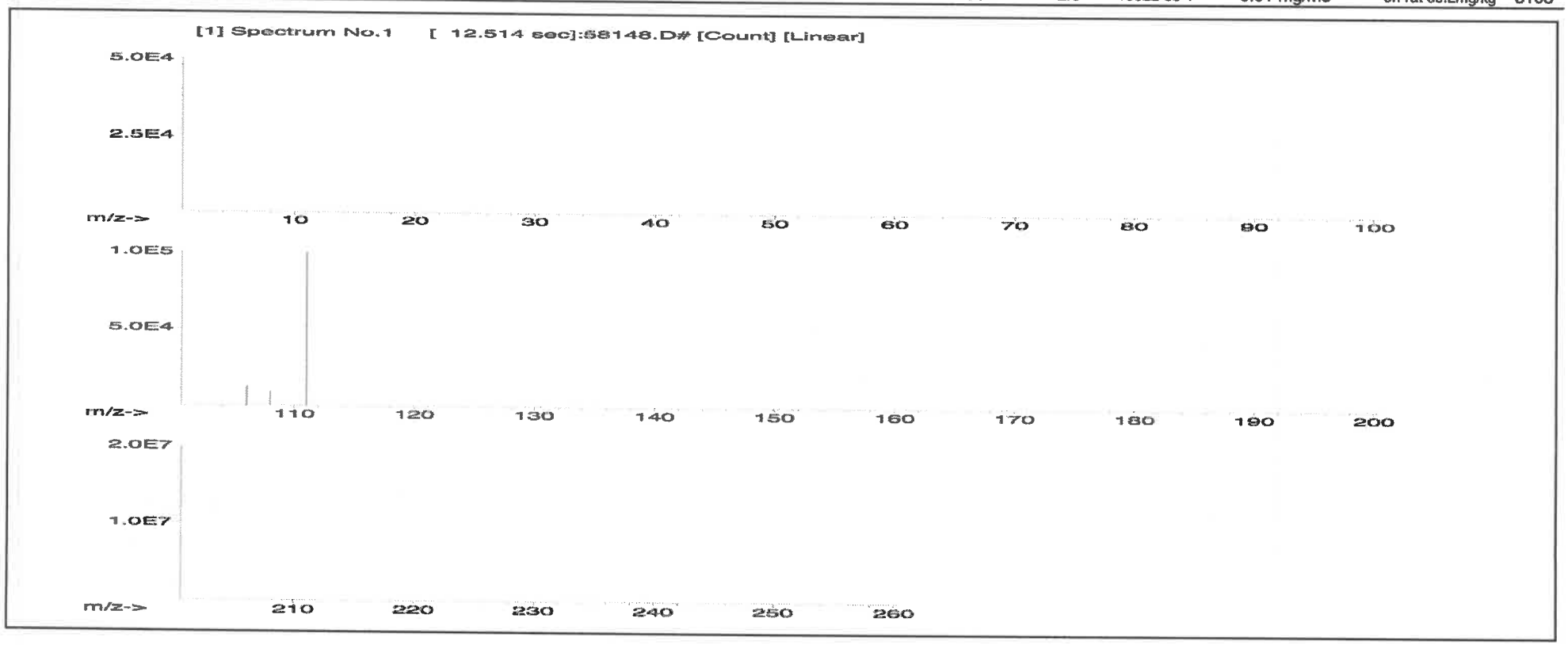
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5296 OP: 09/19/2022 BH

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	S2-MEB711673
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

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

November 02, 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

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

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**	**Calcium, Ca**	**5 000 ± 22 µg/mL**
Chromium, Cr	**200.0 ± 1.0 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**
Magnesium, Mg	**5 000 ± 20 µg/mL**	**Manganese, Mn**	**500.0 ± 2.0 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 19 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**499.7 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.2 µg/mL**

Density: 1.118 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
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
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

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"

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 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

- **January 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

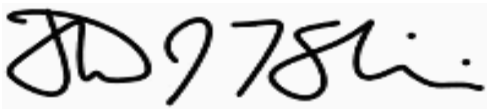
- Sealed TCT Bag Open Date: _____

- 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

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

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- 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

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- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 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

- **January 13, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

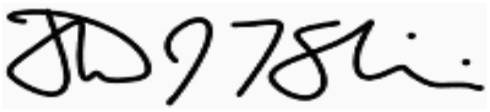
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R: 8/5/24

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

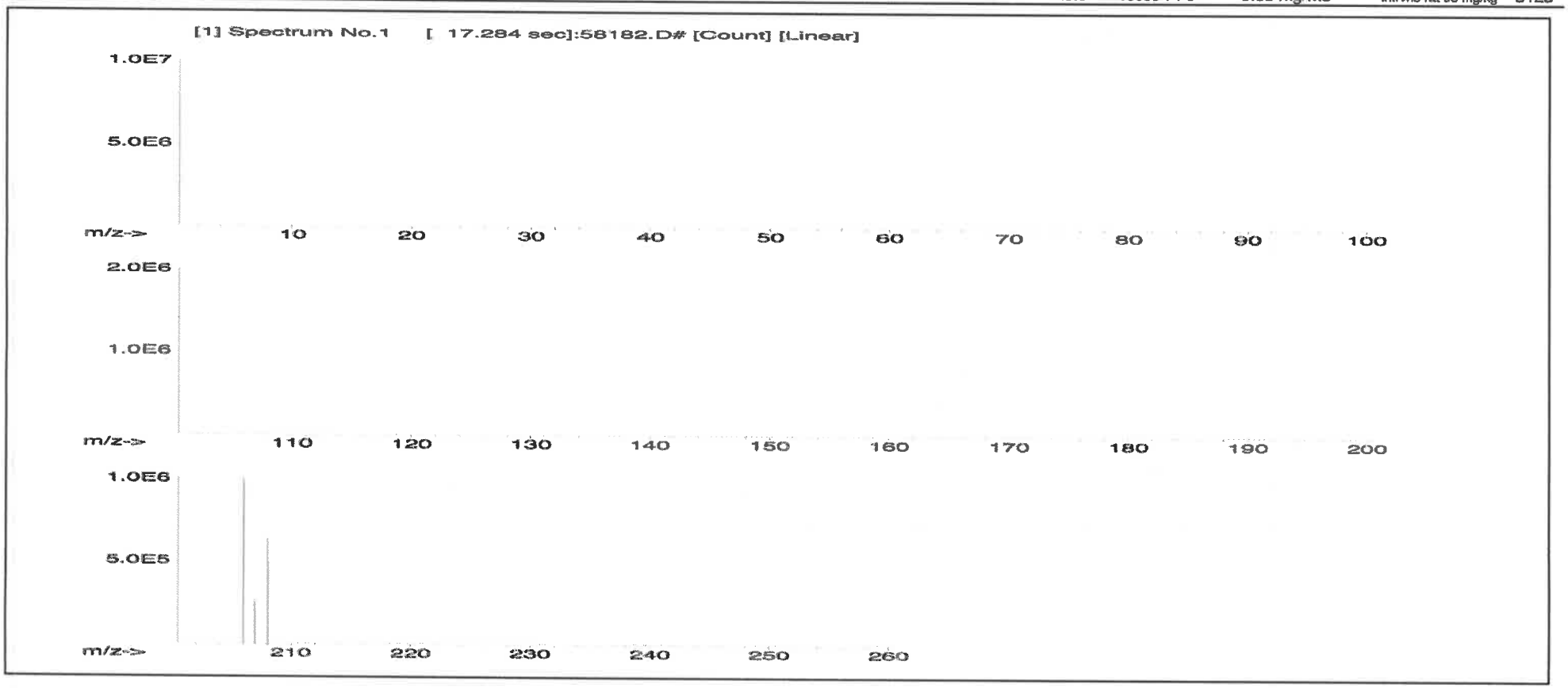
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546		Nitric Acid
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M4960 R: 10/08/21 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58149
Lot Number: 100721
Description: Indium (In)

Expiration Date: 100724
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

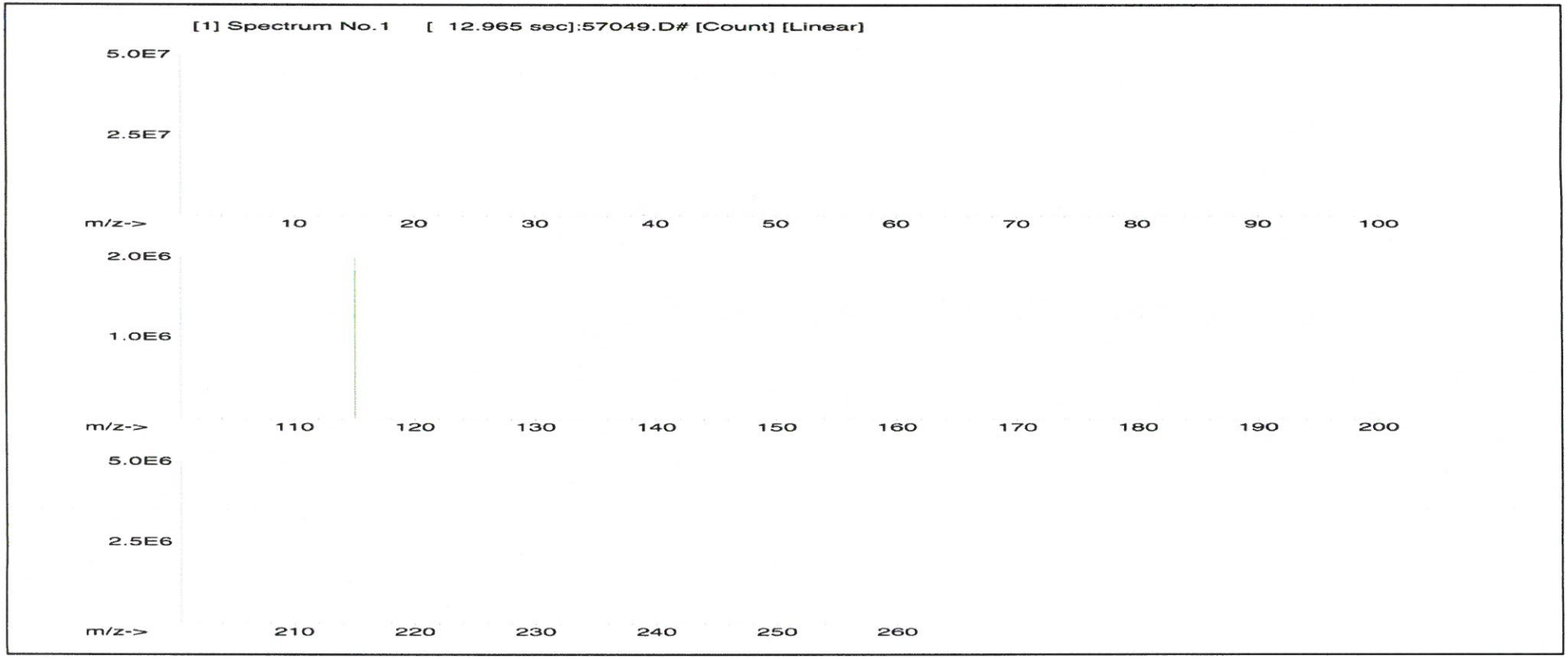
Weight shown below was diluted to (mL): 500.06 0.058 Flask Uncertainty

	Lot #		
Solvent:	20370011	Nitric Acid	
5%	25.0 (mL)	Nitric Acid	
		5E-05	Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	100721
Reviewed By:	Pedro L. Rentas	100721

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Indium Oxide (In)	IN086	W1096A	10000	99.999	0.10	82.6	6.05408	6.05441	**10000.6**	**20.1**	1312-43-2	NA	NA	3124a



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	T	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (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 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-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

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 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 interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES 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-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, 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 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES 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-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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Certified Reference Material CRM

M5192 R: 06/17/22

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

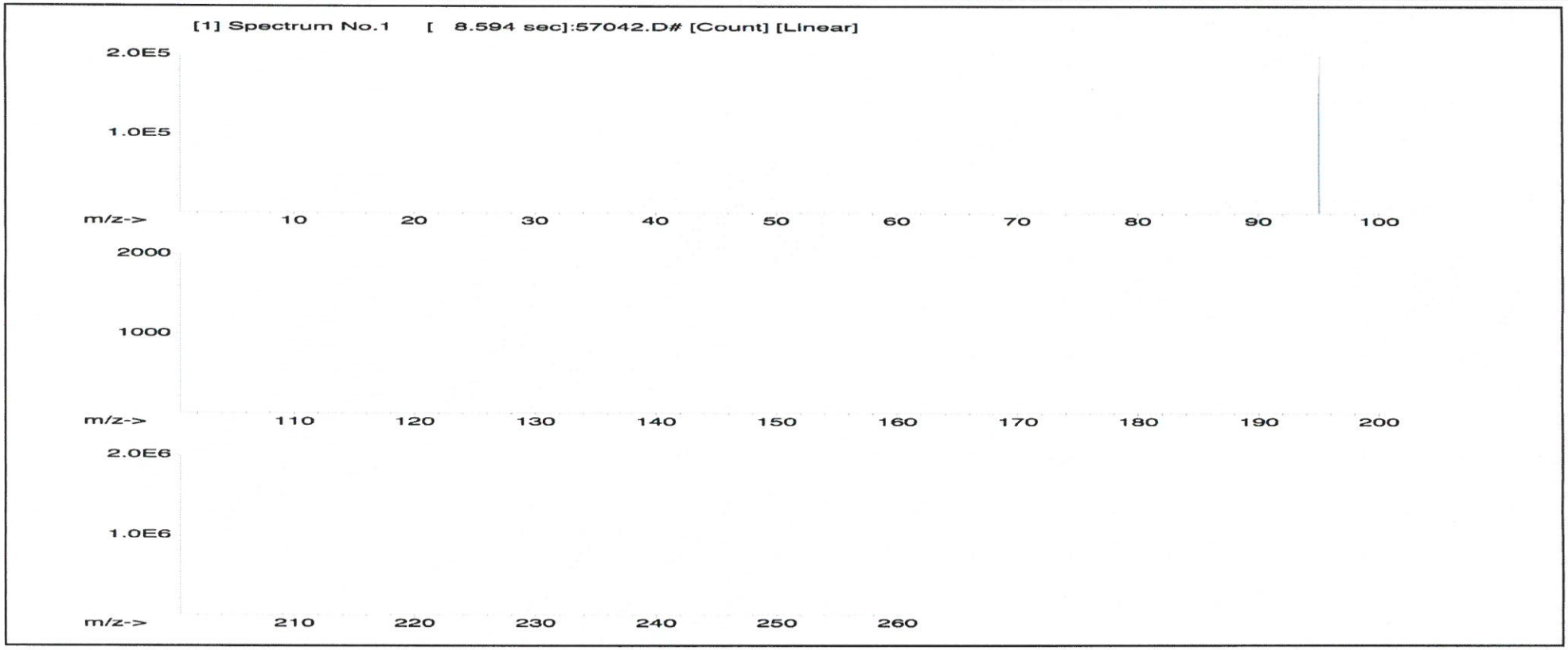
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)

	Lot #	Solvent:	
	MKBQ8597V	Ammonium hydroxide	
	0.5%	15.0 (mL)	Ammonium hydroxide

Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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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INORGANIC VENTURES™
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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

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

November 02, 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

- **November 02, 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

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

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Contains Heavy Metals
HAZARDOUS MATERIAL

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(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of 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-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

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 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 interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

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Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES 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-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, 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 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES 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-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 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.

V15200 R: 04/24/22 (BP)

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CERTIFIED WEIGHT REPORT:

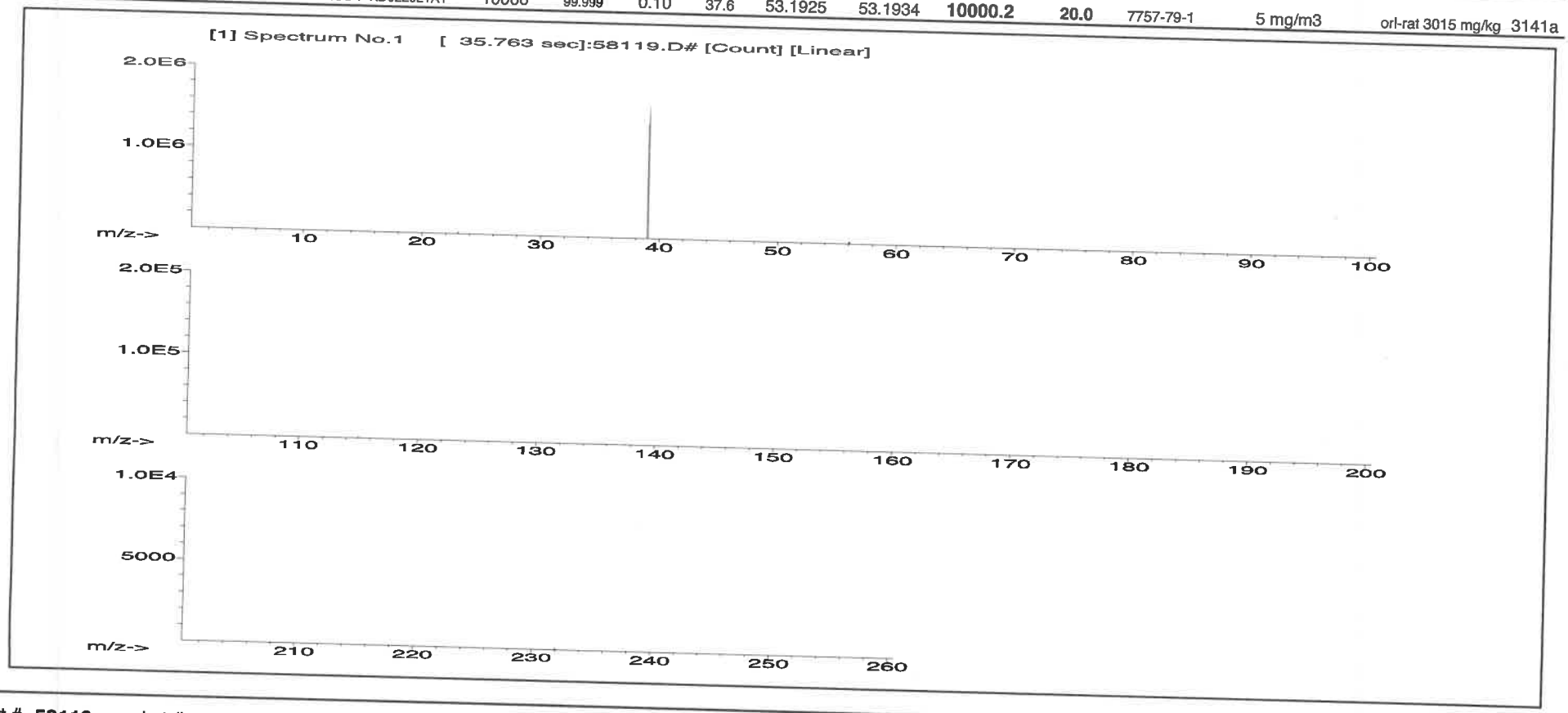
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:	20510011		Nitric Acid
2%	40.0 (mL)		Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	071122
Reviewed By:	Pedro L. Rentas	071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5289 R: 07/12/22 (BH)

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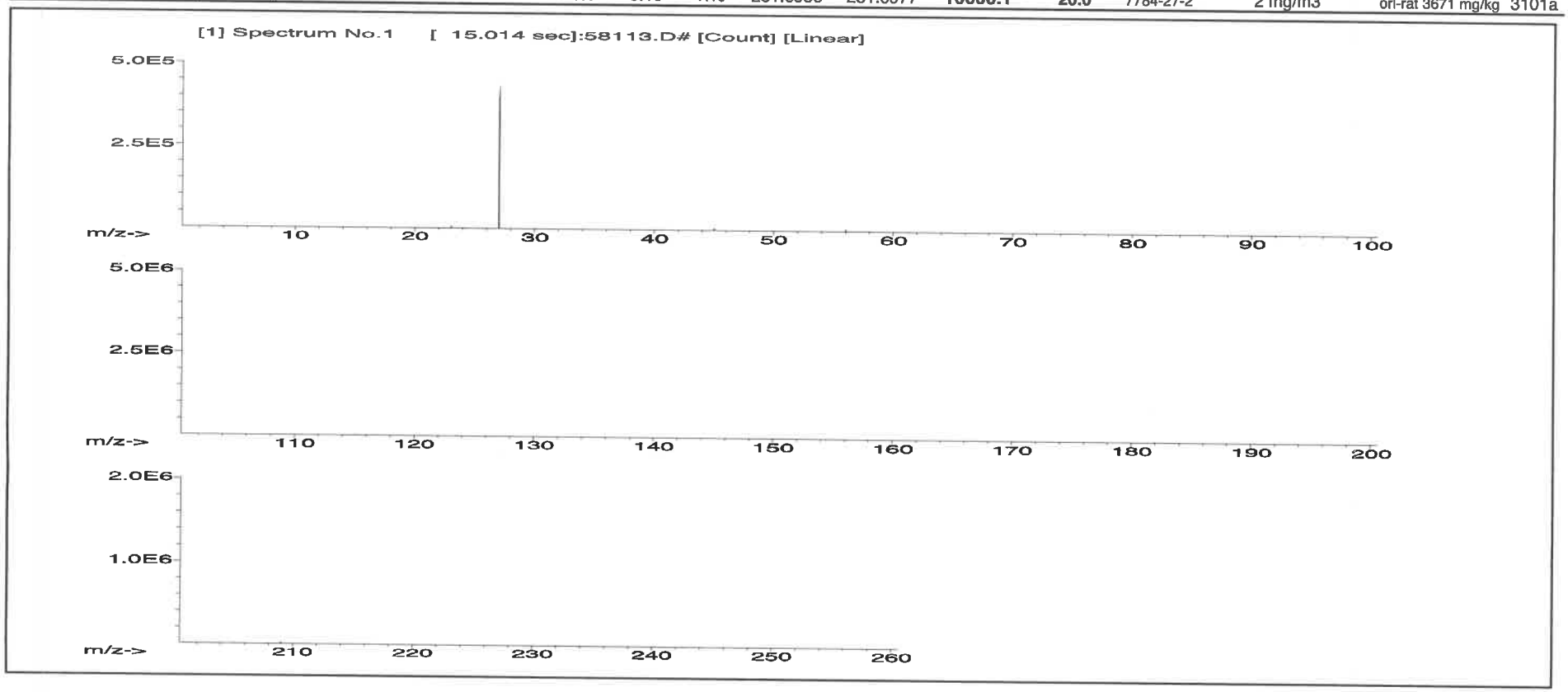
CERTIFIED WEIGHT REPORT:

Part Number:	**58113**			**Lot #**	
Lot Number:	**070622**		**Solvent:**	20370011	Nitric Acid
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	070625				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

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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

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M5387 . M5389 . M5390 . M5391 . M5392

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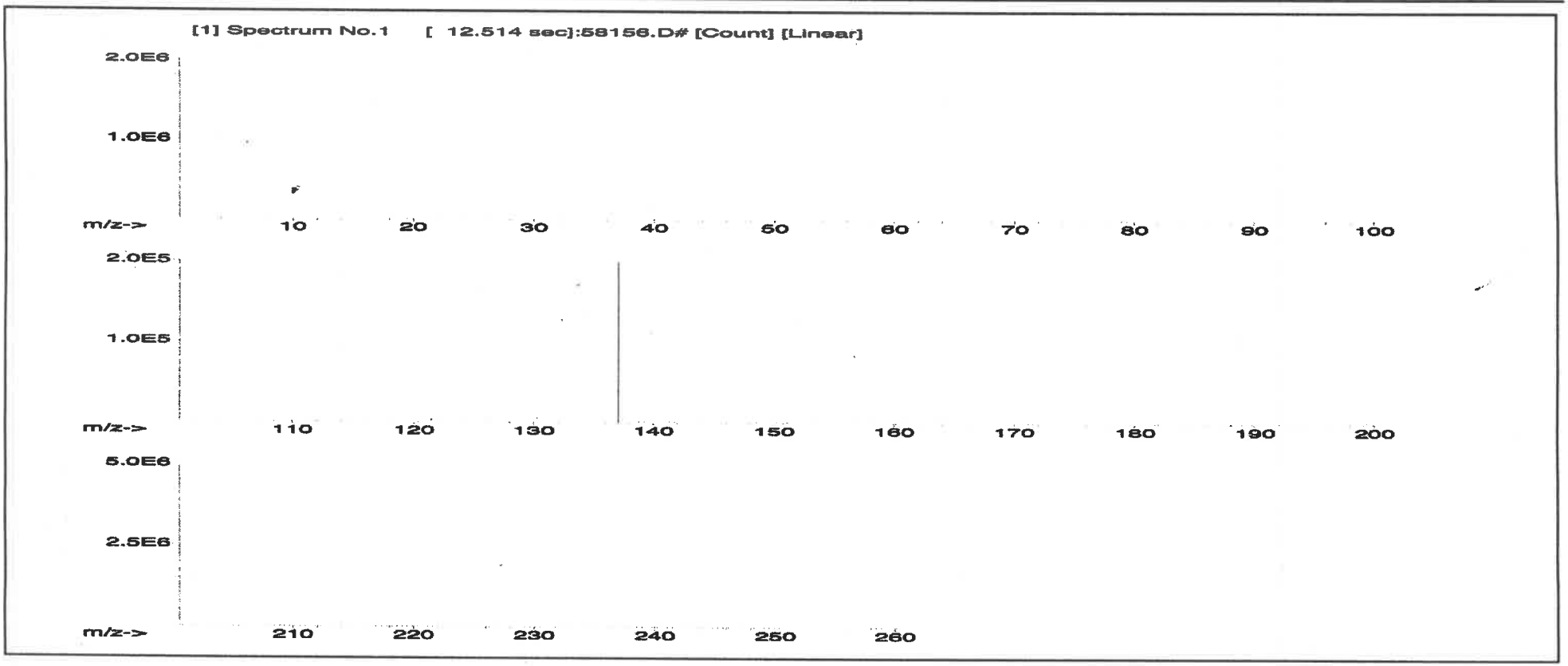
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**57056**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**072122**			
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	072125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

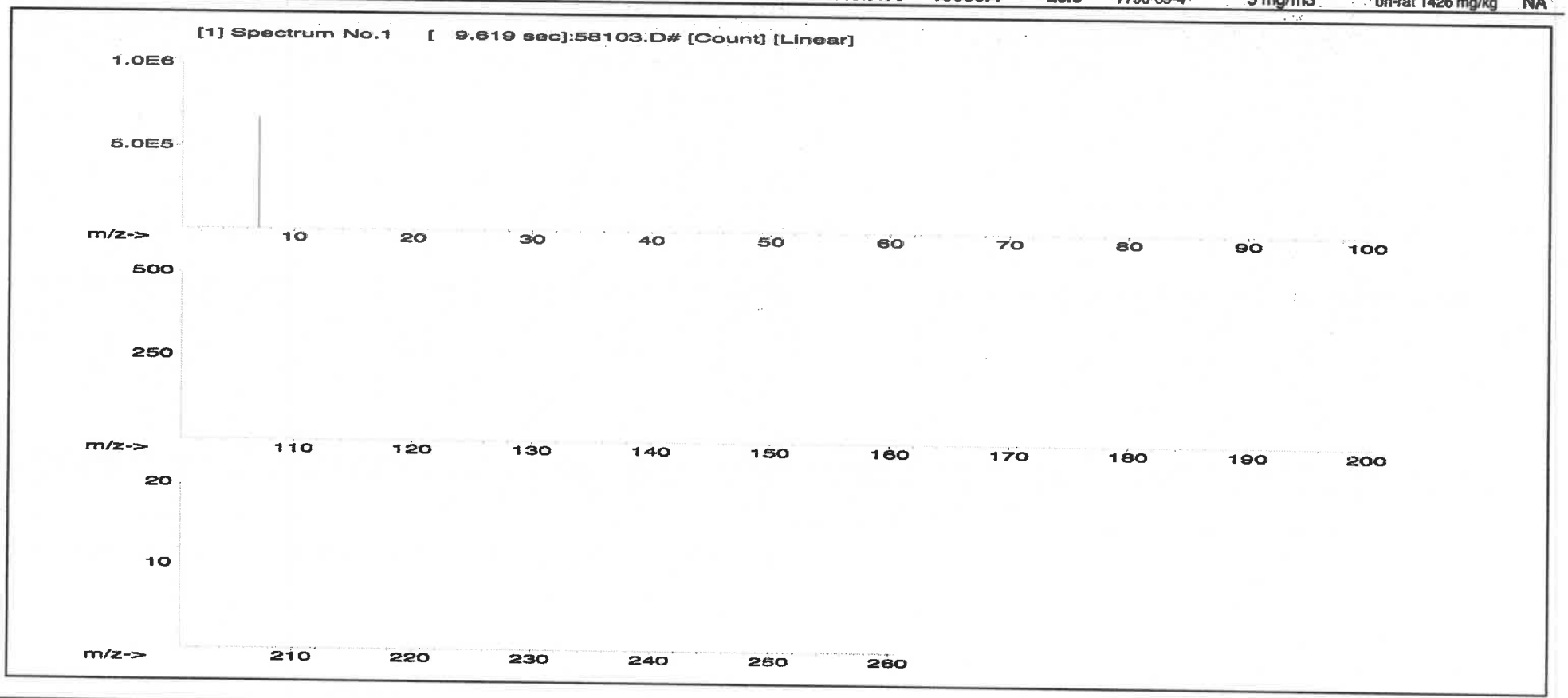
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



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	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5467 R: 03/01/23 (LA)

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

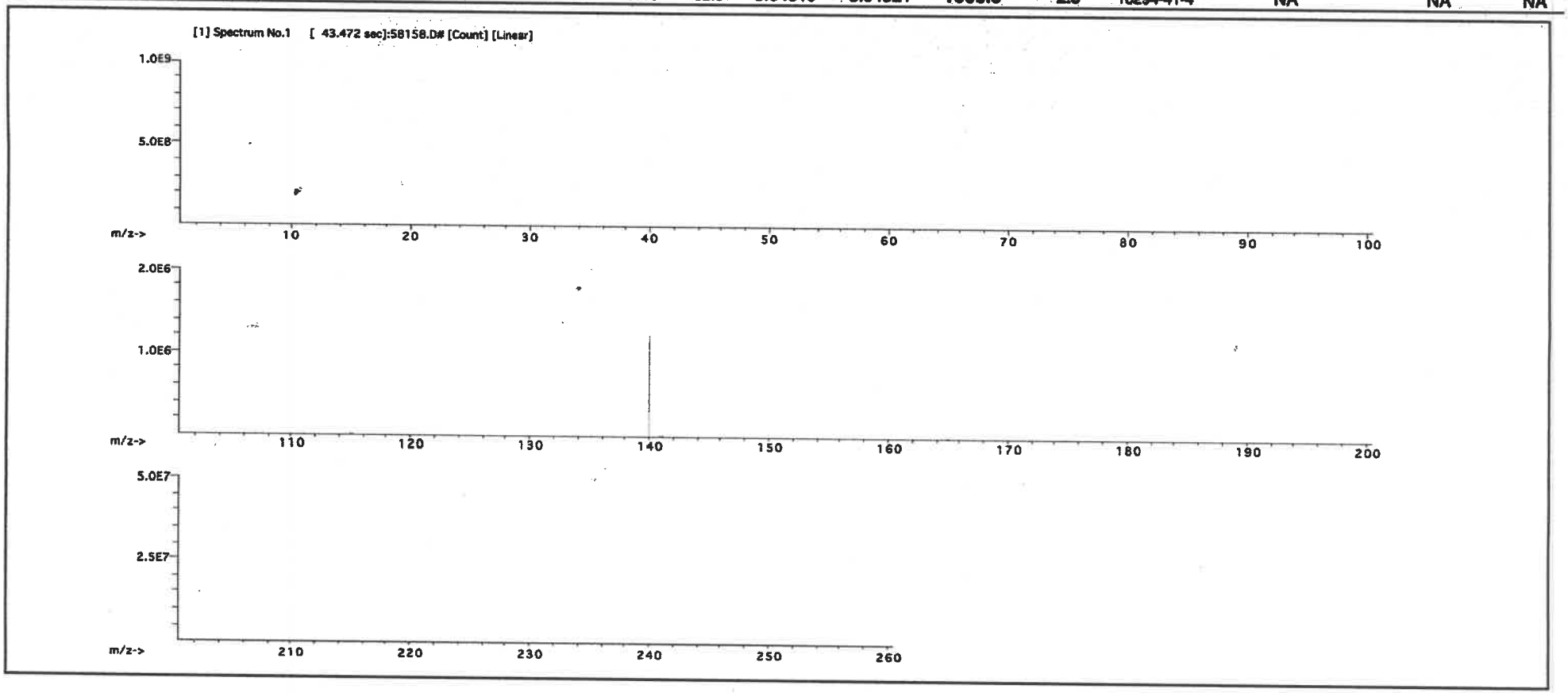
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	NA	NA	NA



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	T	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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Certified Reference Material CRM

IN5497 - IN5498 R: 03/17/23 BH

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

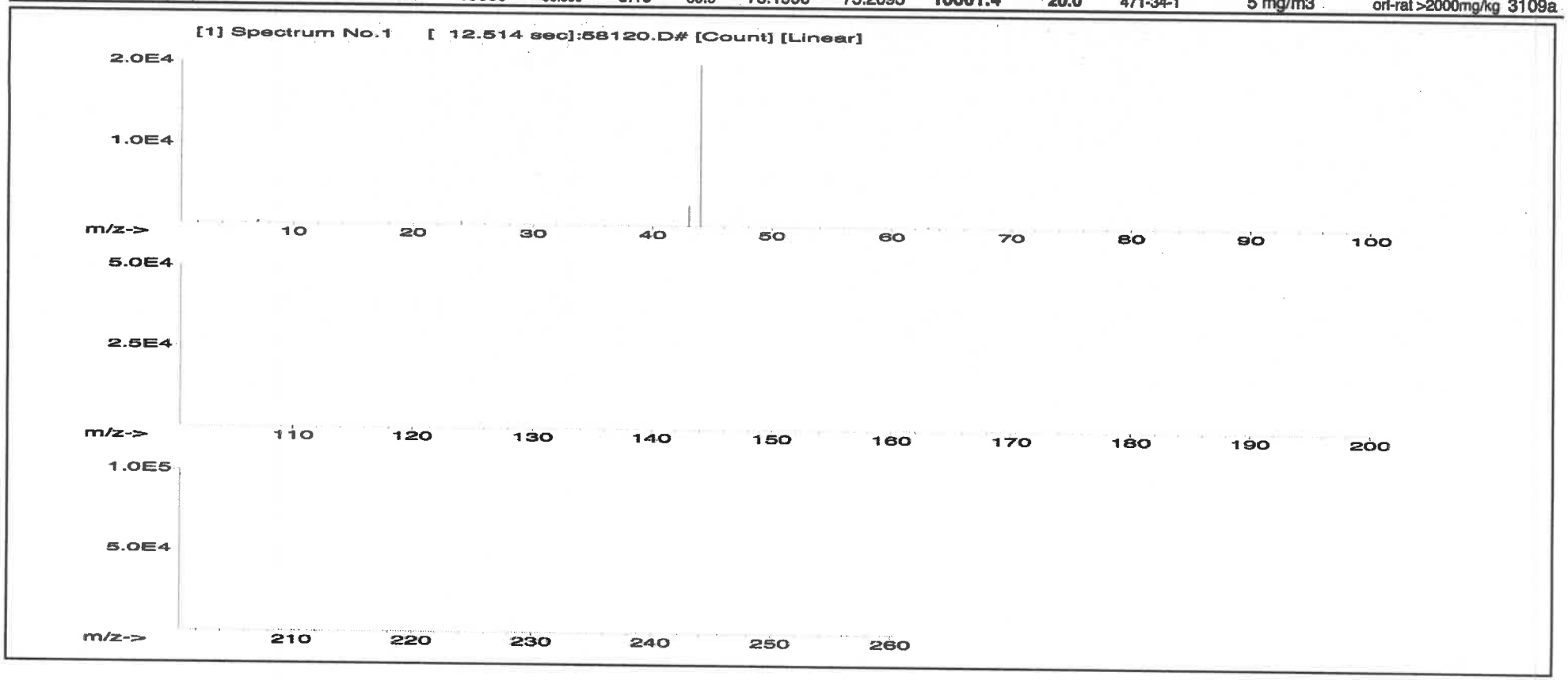
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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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).

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Certified Reference Material CRM

MS513 R:03/17/23 BE

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

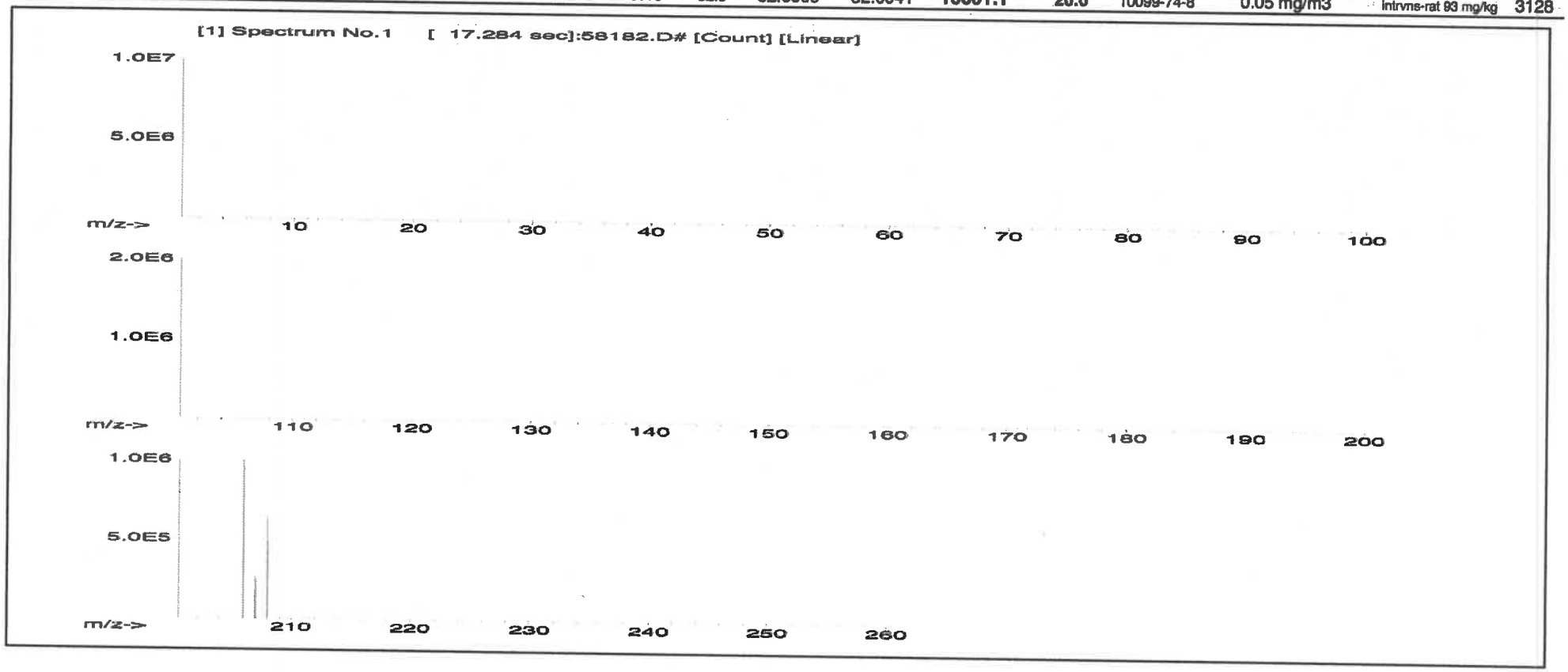
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	061522
Reviewed By:	Pedro L. Rentas	061522

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0041	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	Intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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Certified Reference Material CRM

M5514 - M5515 R: 03/17/22

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 092122
Description: Iron (Fe)

Expiration Date: 092125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

	Lot #		
Solvent:	20510011	Nitric Acid	
7.0%	350.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

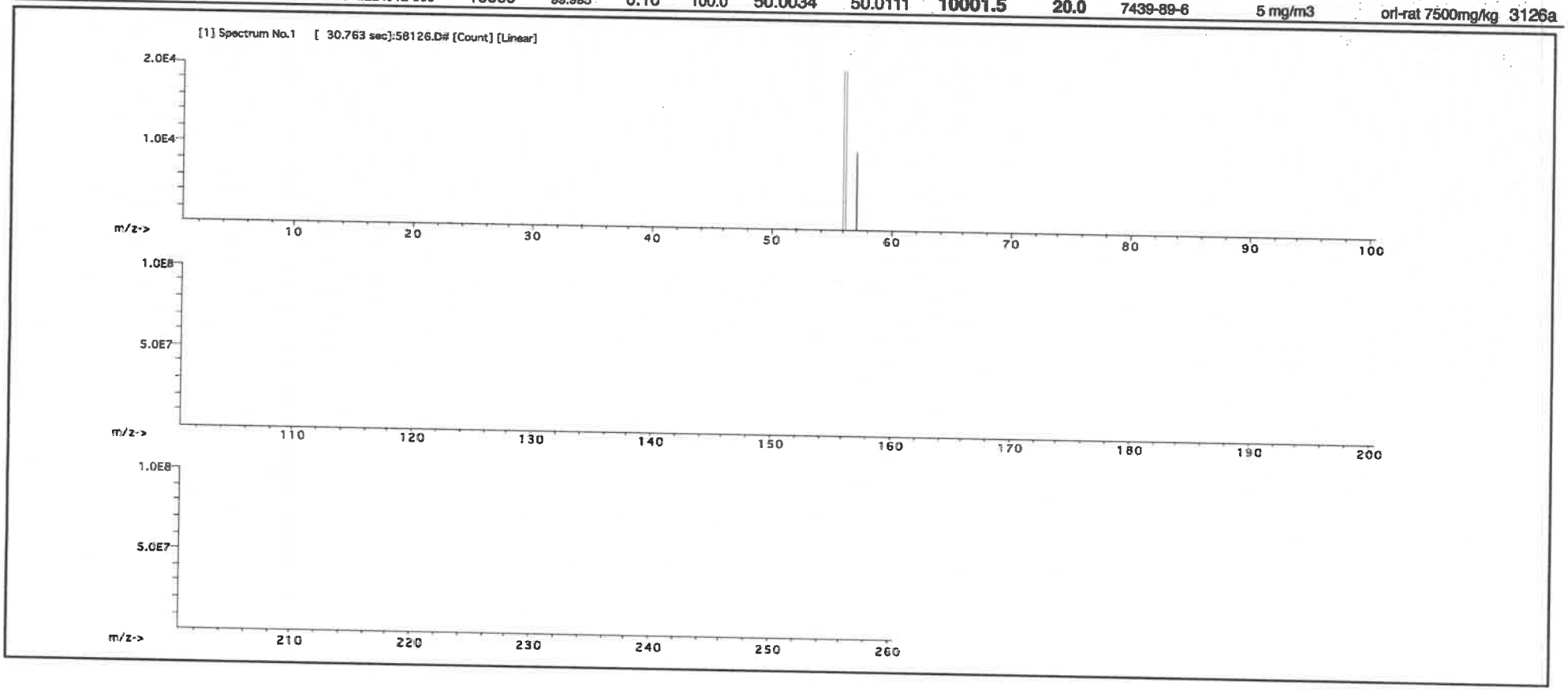
Giovanni Esposito

Formulated By: Giovanni Esposito 092122

Pedro Rentas

Reviewed By: Pedro L. Rentas 092122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2224912-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.05
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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Certified Reference Material CRM

M519. M520 (BH) R:03/17/23

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CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

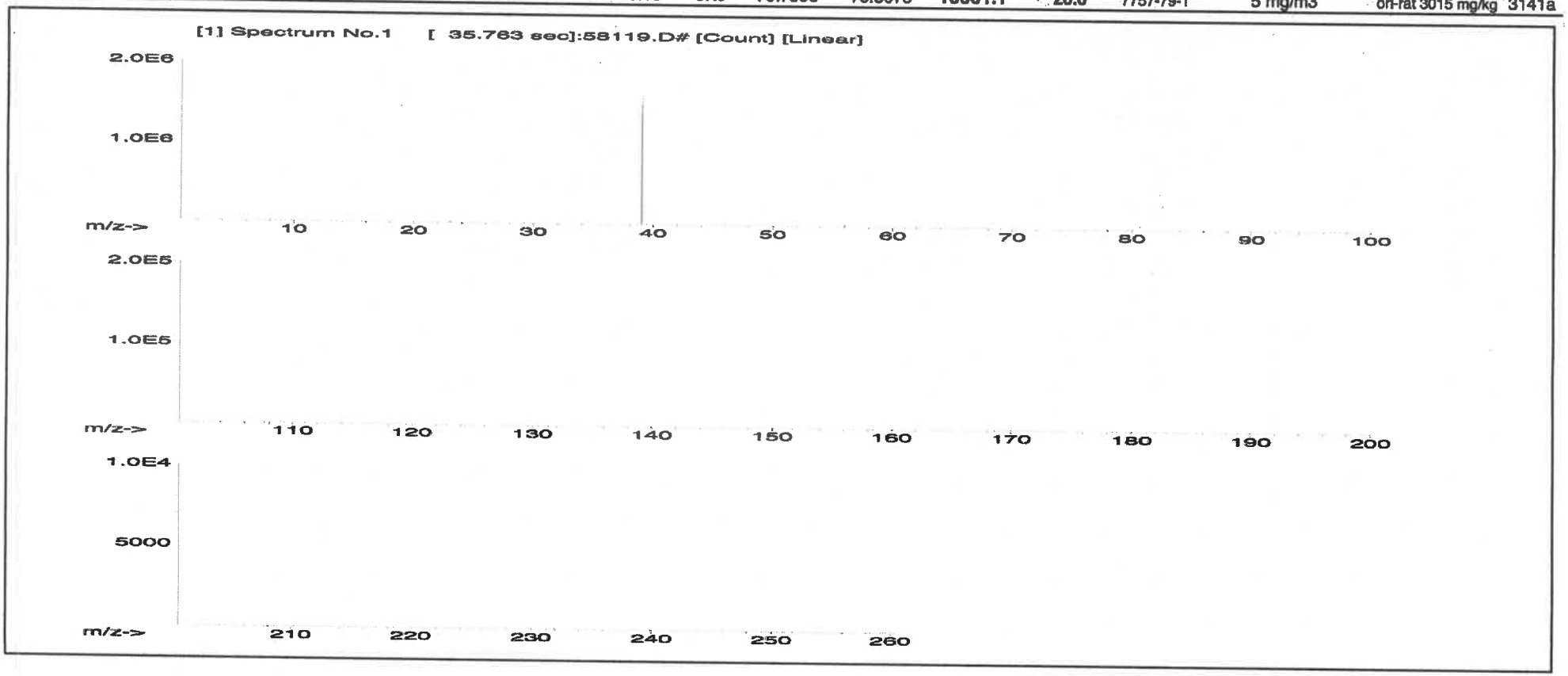
Lot #		
Solvent: 20510011		Nitric Acid
2%	60.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
Reviewed By:	Pedro L. Rentas	120822

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

CERTIFICATE OF ANALYSIS

Date: 8/3/2022 MS631 MS632 MS633 MS634 **Lot No 820803**

Hydrogen Peroxide, ACS
Reagent Grade

TEST	MAXIMUM LIMITS	RESULT
Appearance	Colorless and free from suspended matter or sediment	Pass
Assay	29-32%	31.4%
Color (APHA)	10	5
Residue after Evaporation	0.002%	.0001%
Titratable Acid	0.0006 meq/g	< .0006 meq/g
Chloride (Cl)	2 ppm	< 1 ppm
Nitrate (NO_3)	2 ppm	< 1 ppm
Phosphate	2 ppm	< 1 ppm
Sulfate (SO_4)	5 ppm	< .5 ppm
Ammonium (NH_4)	5 ppm	< 1 ppm
Heavy Metals (as Pb)	1 ppm	< .1 ppm
Iron (Fe)	0.5 ppm	< .1 ppm
Sodium Stannate	200 – 300 ppb	Pass

***Our Hydrogen Peroxide is considered un-stabilized because it is very slightly stabilized with Sodium Stannate, 500 ppb maximum, just for safety purposes.

Date of MFG: 8/2022
Retest date: 8/2024

Gina M. Rambo
Office Manager

CORCO CHEMICAL CORPORATION. 299 CEDAR LANE. FAIRLESS HILLS, PA 19030. 215-295-5006. FAX 215-295-0781

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Certified Reference Material CRM

M5658 R ! 8/25/23

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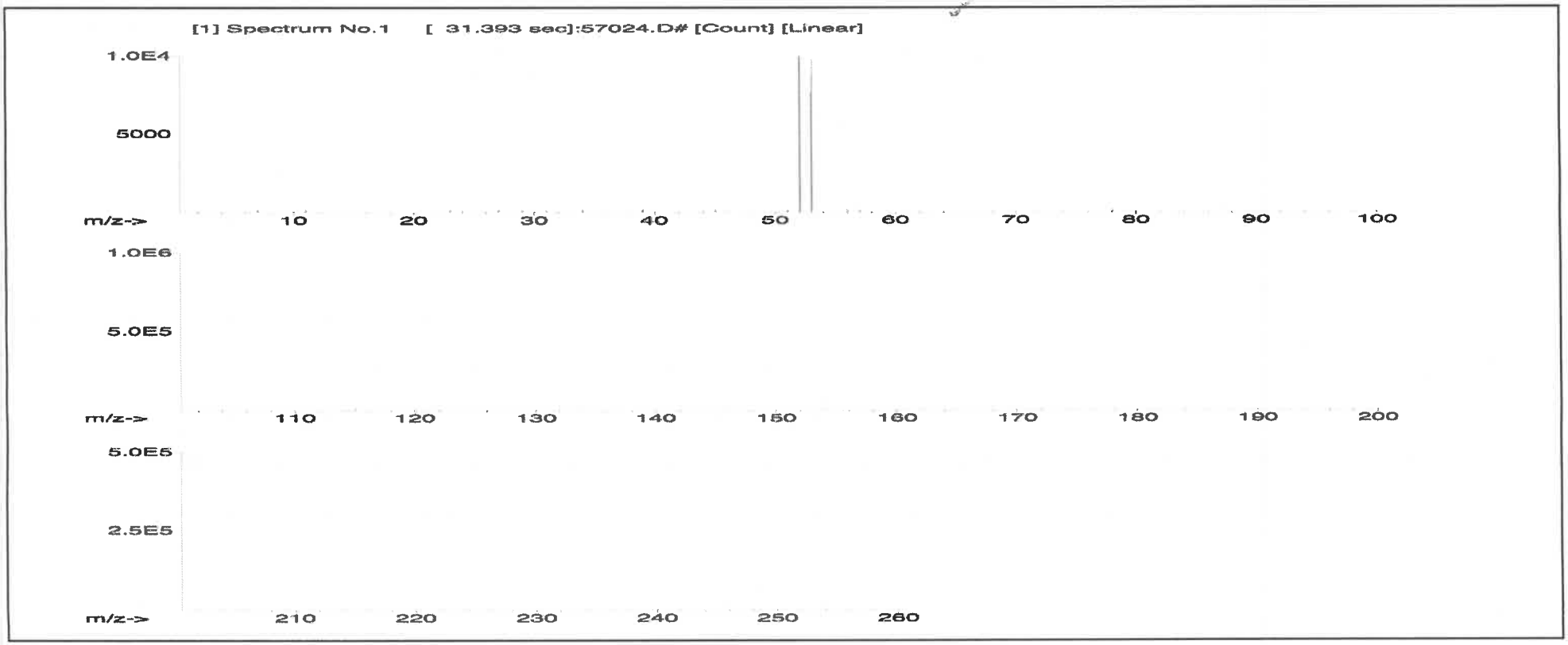
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5697 R: 10/27/23

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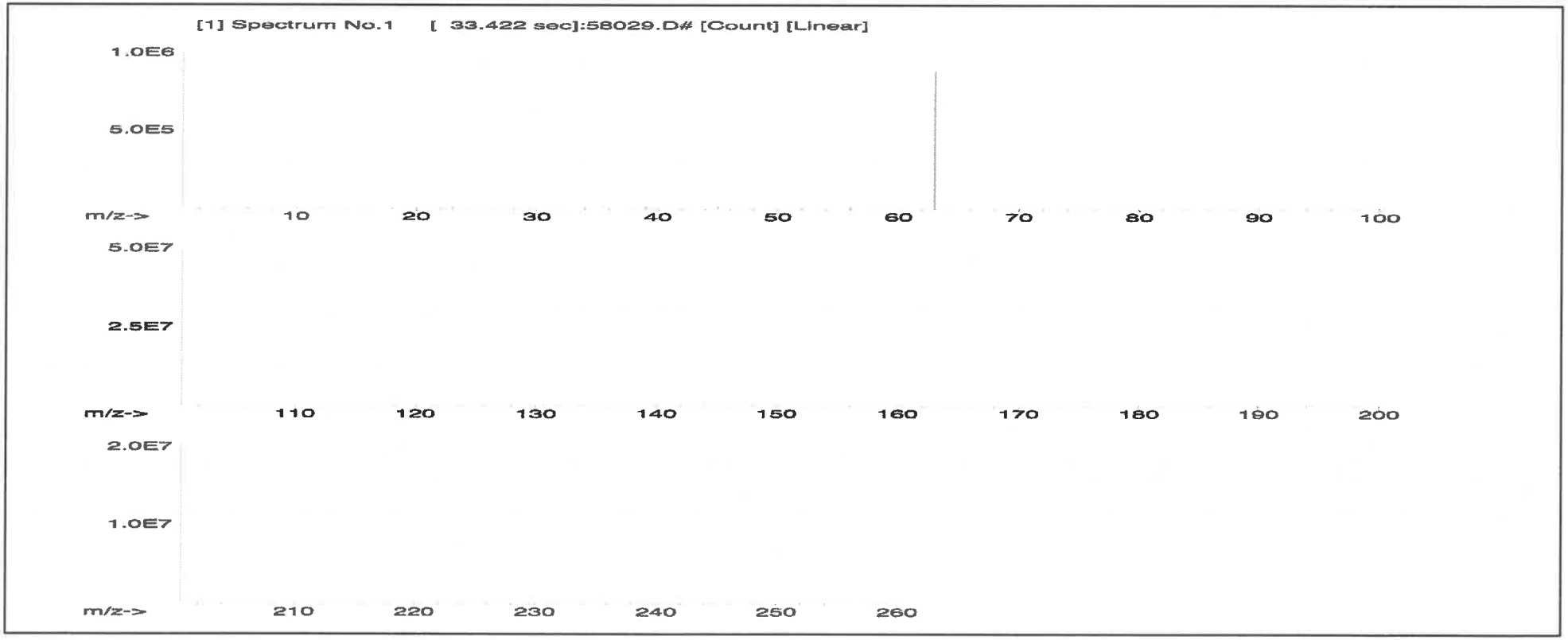
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5648 R: 10/27/23

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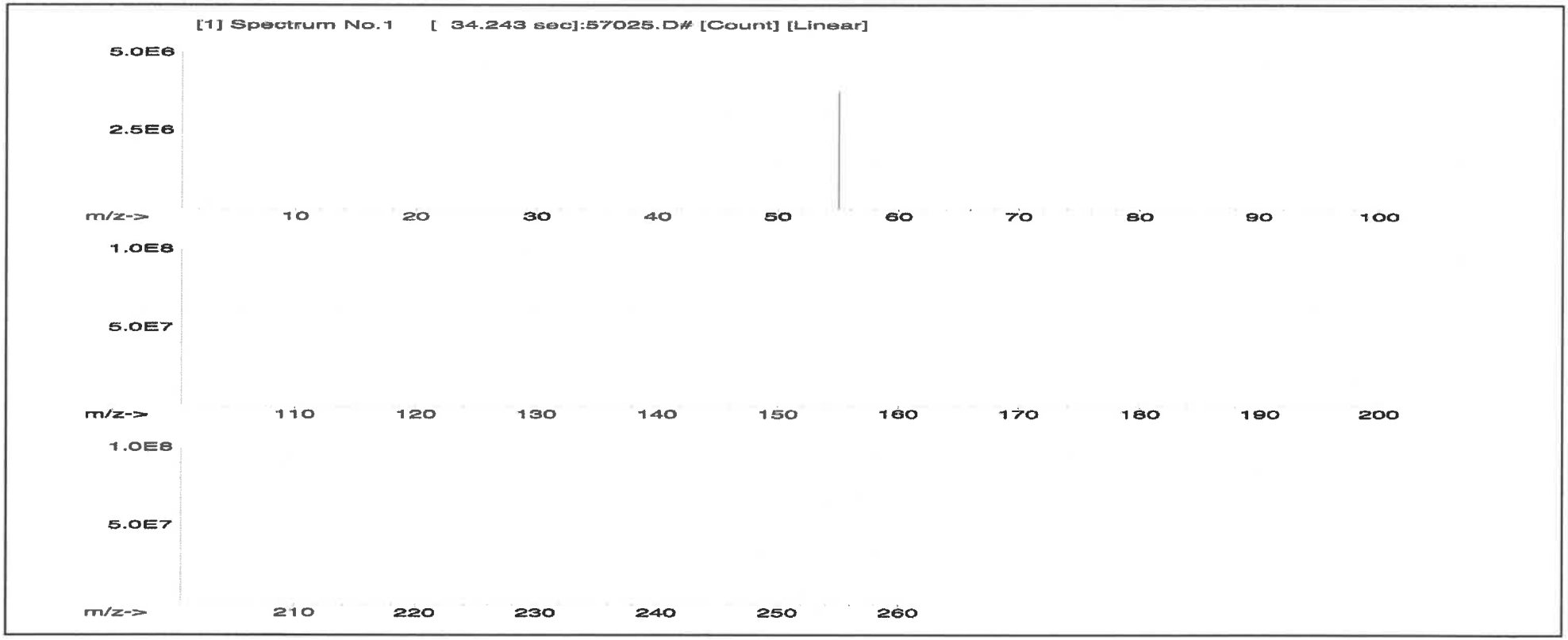
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58025**	24002546	Nitric Acid	
Lot Number:	**102623**			
Description:	**Manganese (Mn)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	102626			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102623
Reviewed By:	Pedro L. Rentas	102623

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	071123	0.1000	300.0	0.084	1000	10000.1	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 12/20/23 M5747

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CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

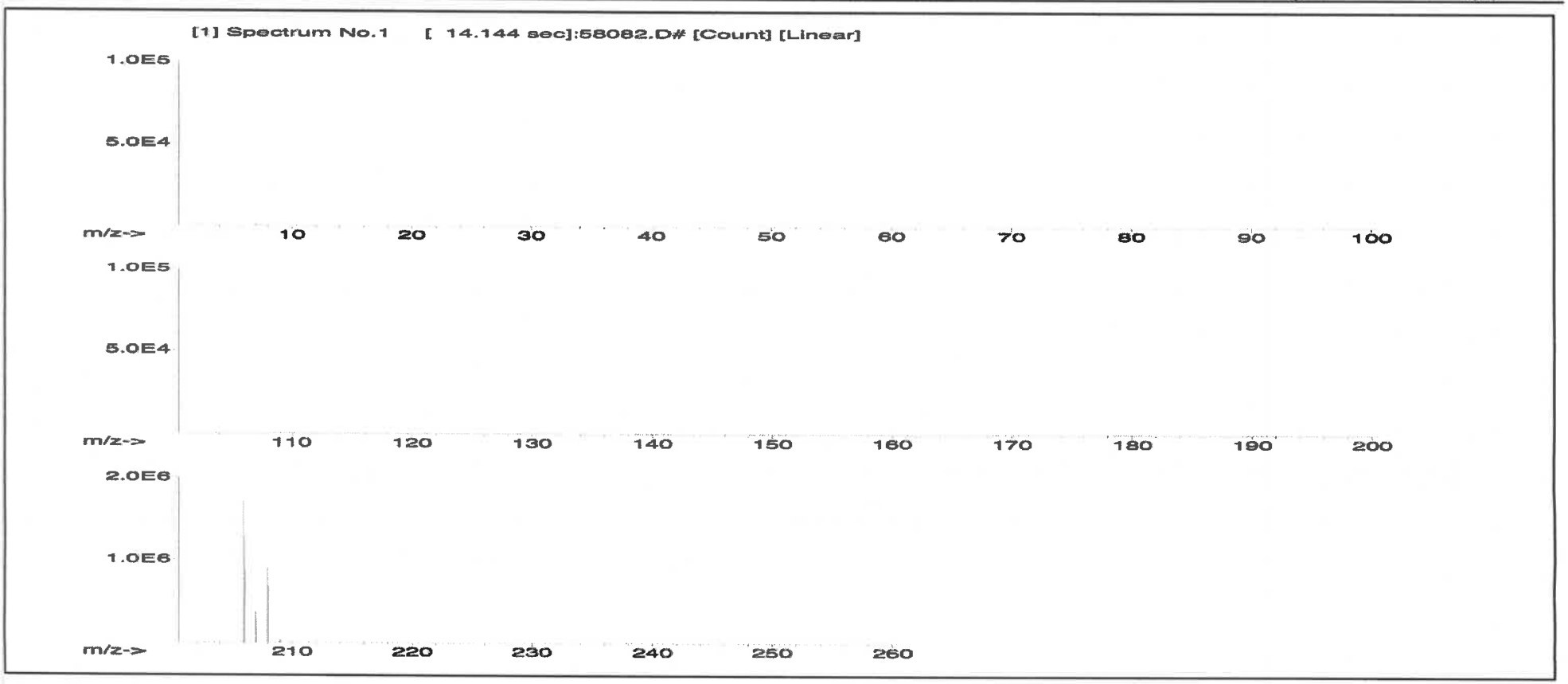
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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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).

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R: 12/20/23 M5748

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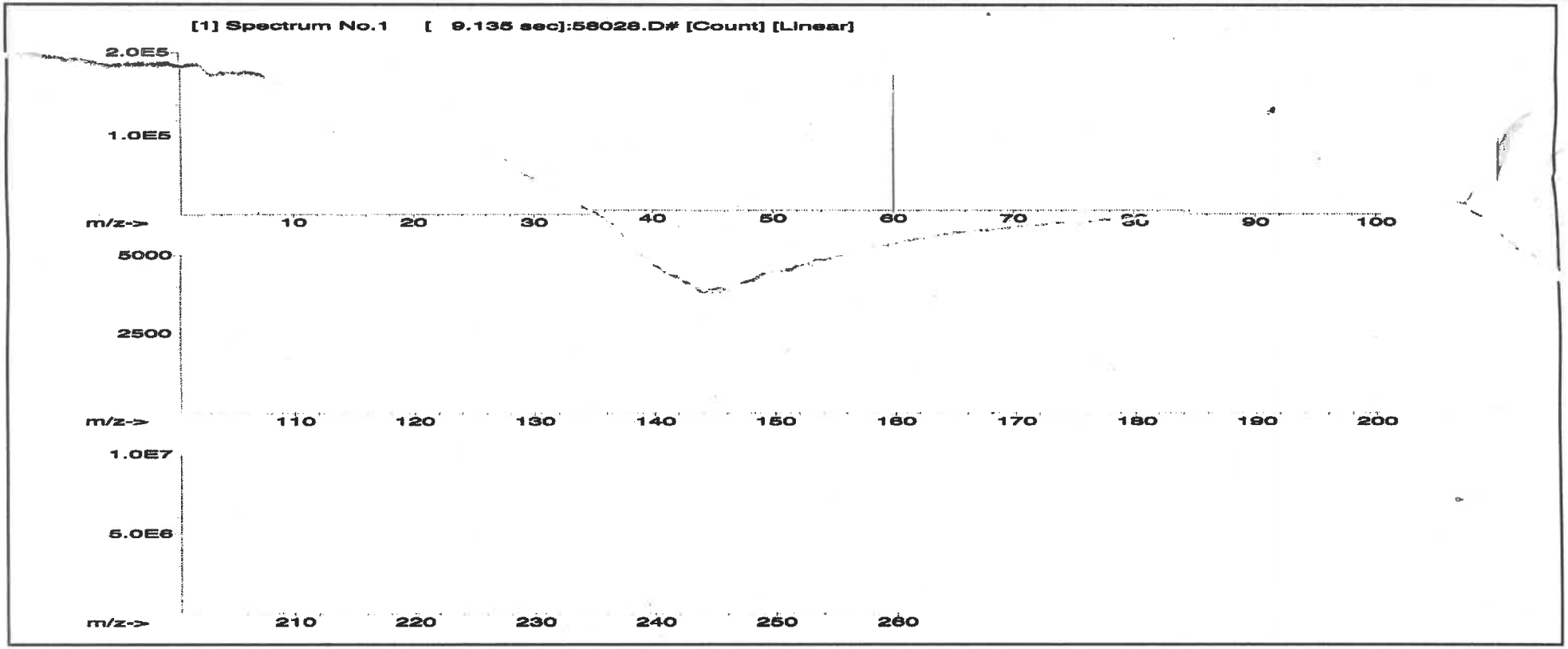
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



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	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5768 M5769 (BP) R:1/3/24

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CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

M5768, M5769 (BP) R: 1/3/24

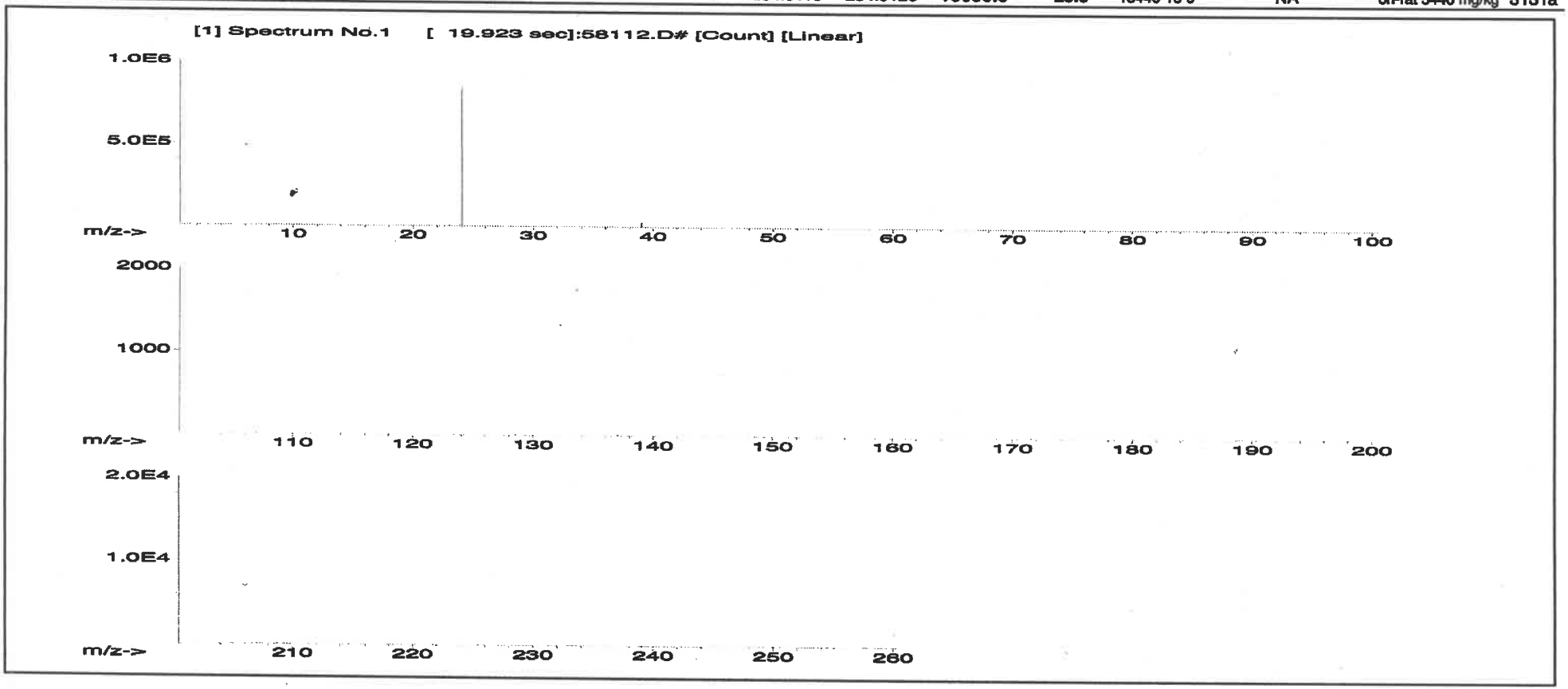
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid
		5E-05	Balance Uncertainty

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* 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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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5798

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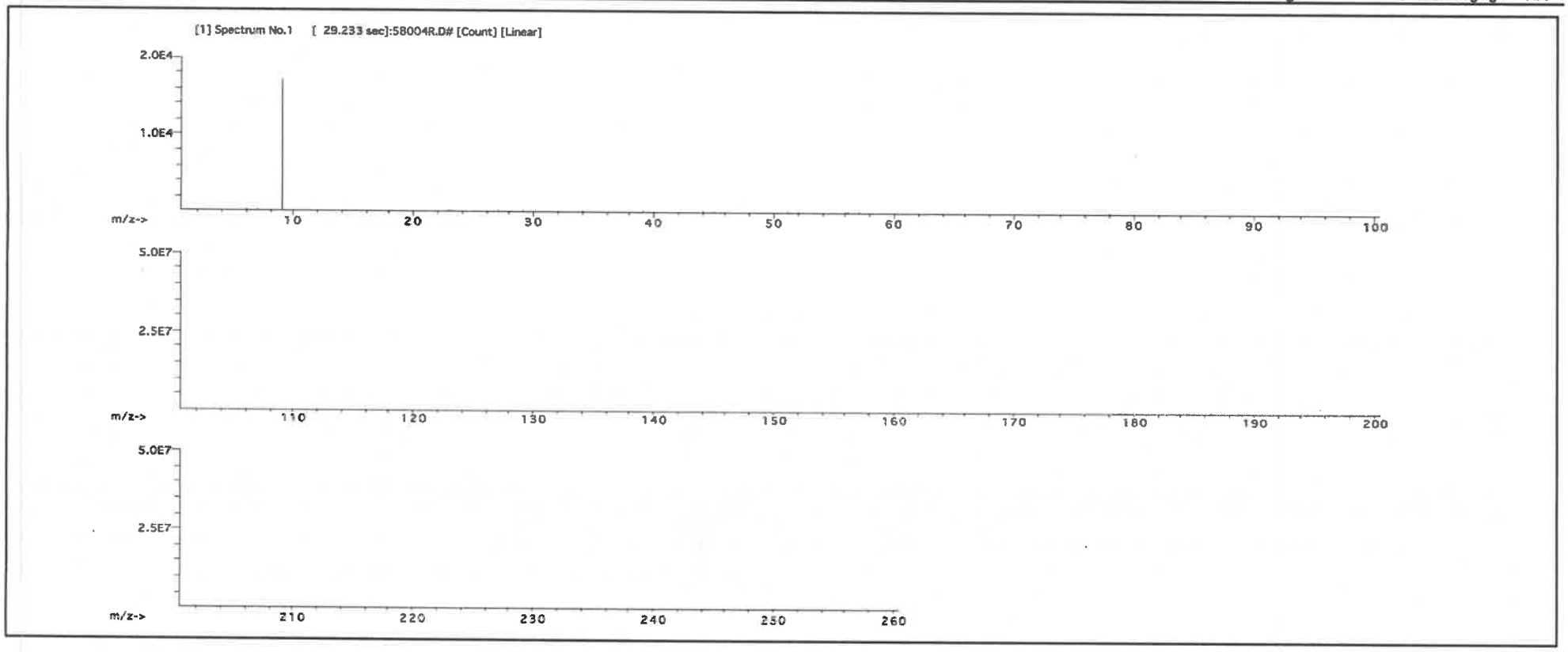
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

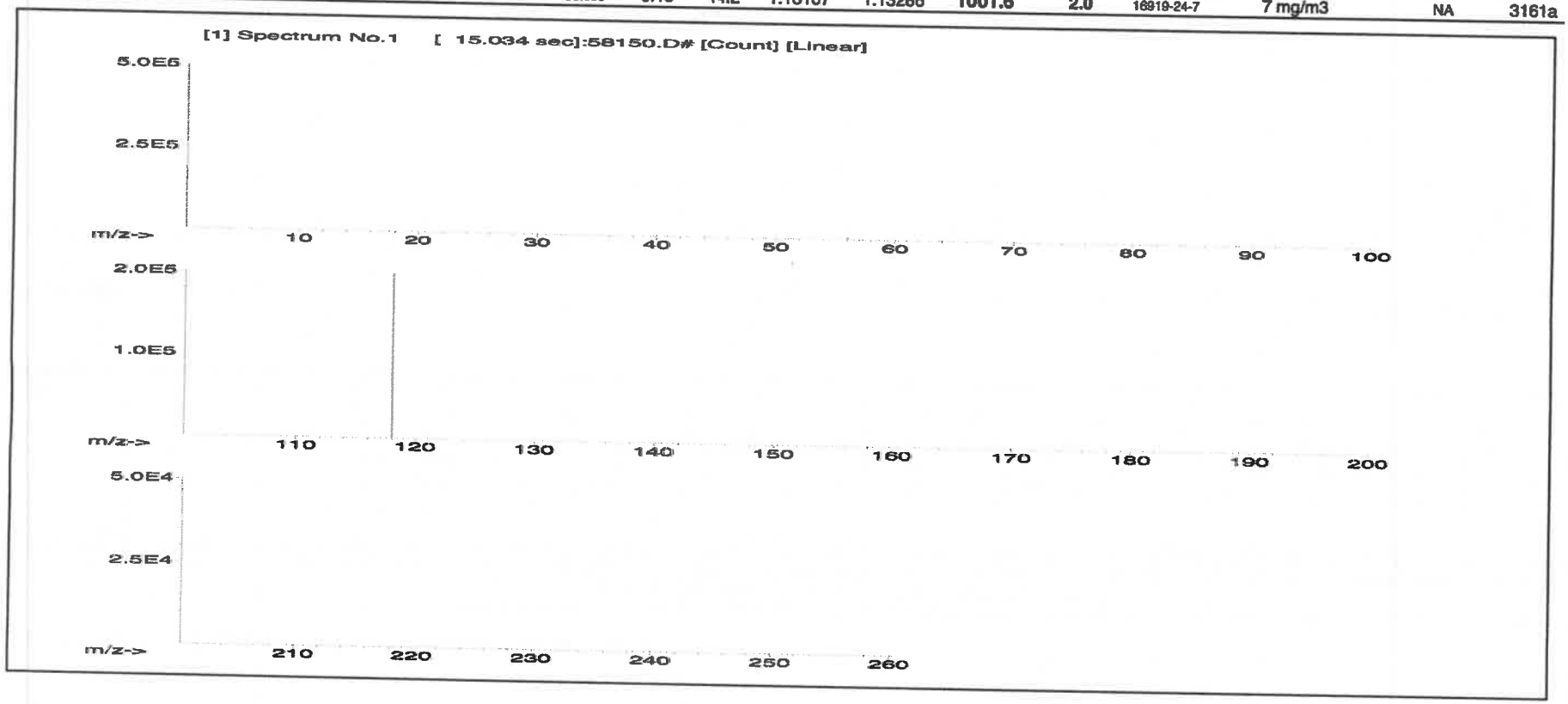
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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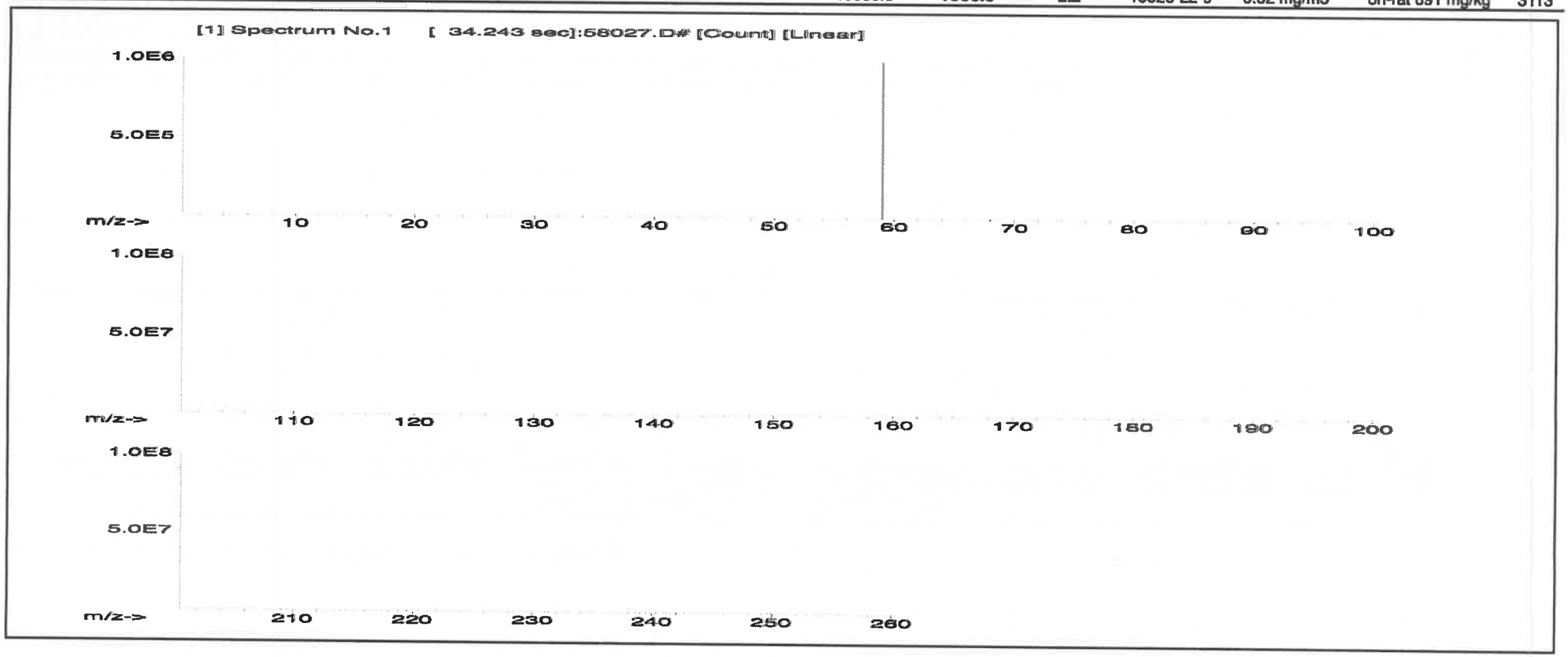
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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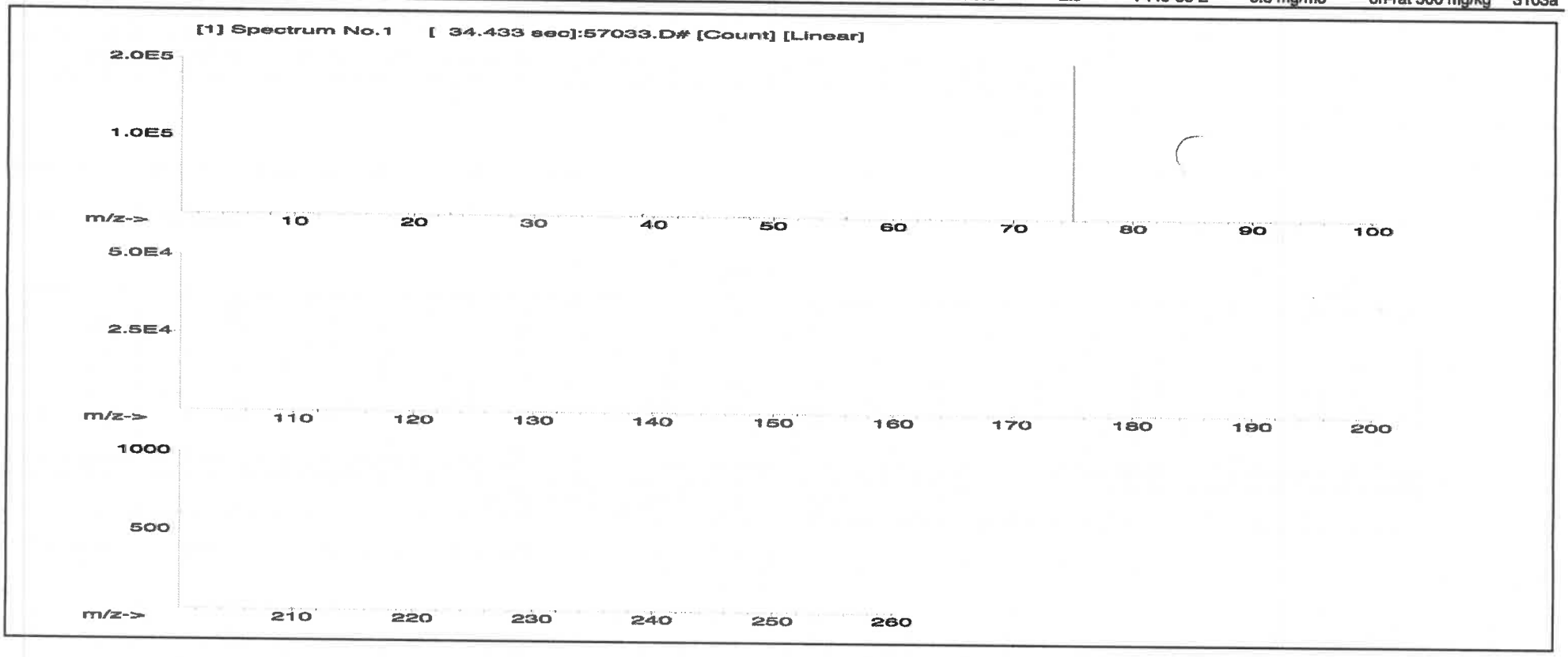
CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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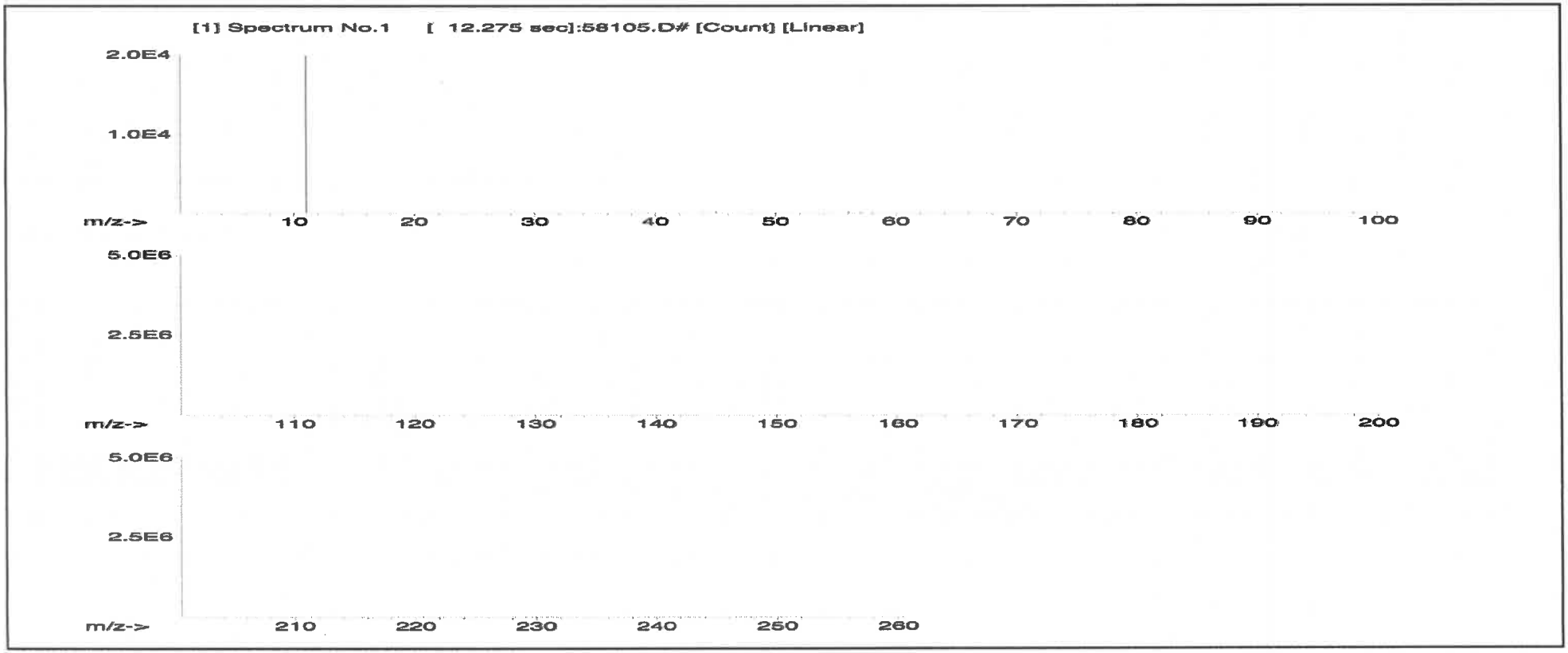
CERTIFIED WEIGHT REPORT:

Part Number:	**57005**		**Solvent:**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**071123**				
Description:	**Boron (B)**		2.0%	40.0 (mL)	Ammonium hydroxide
Expiration Date:	071126				
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):	1999.48	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	IN018	BV092016A1	1000	99.9999	0.10	17.3	11.55772	11.56201	**1000.4**	**2.0**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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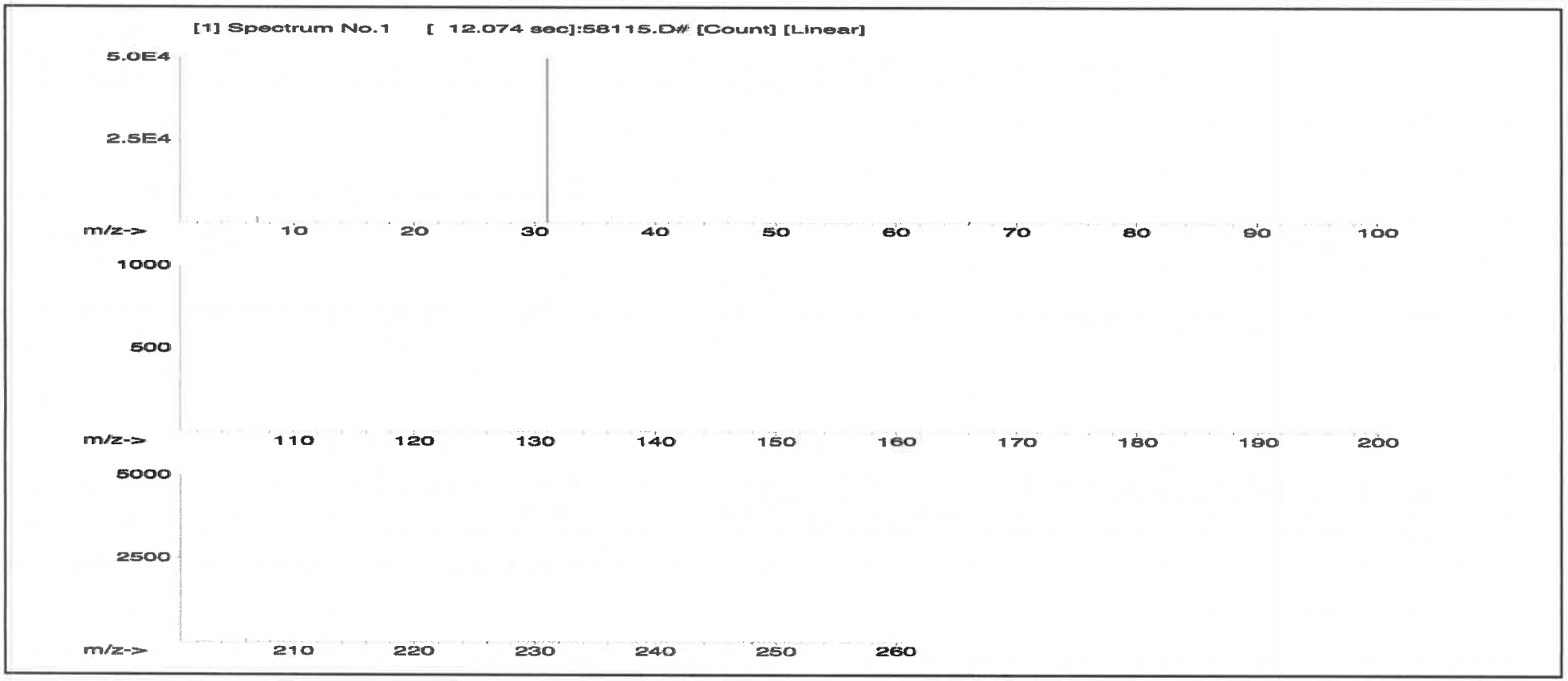
CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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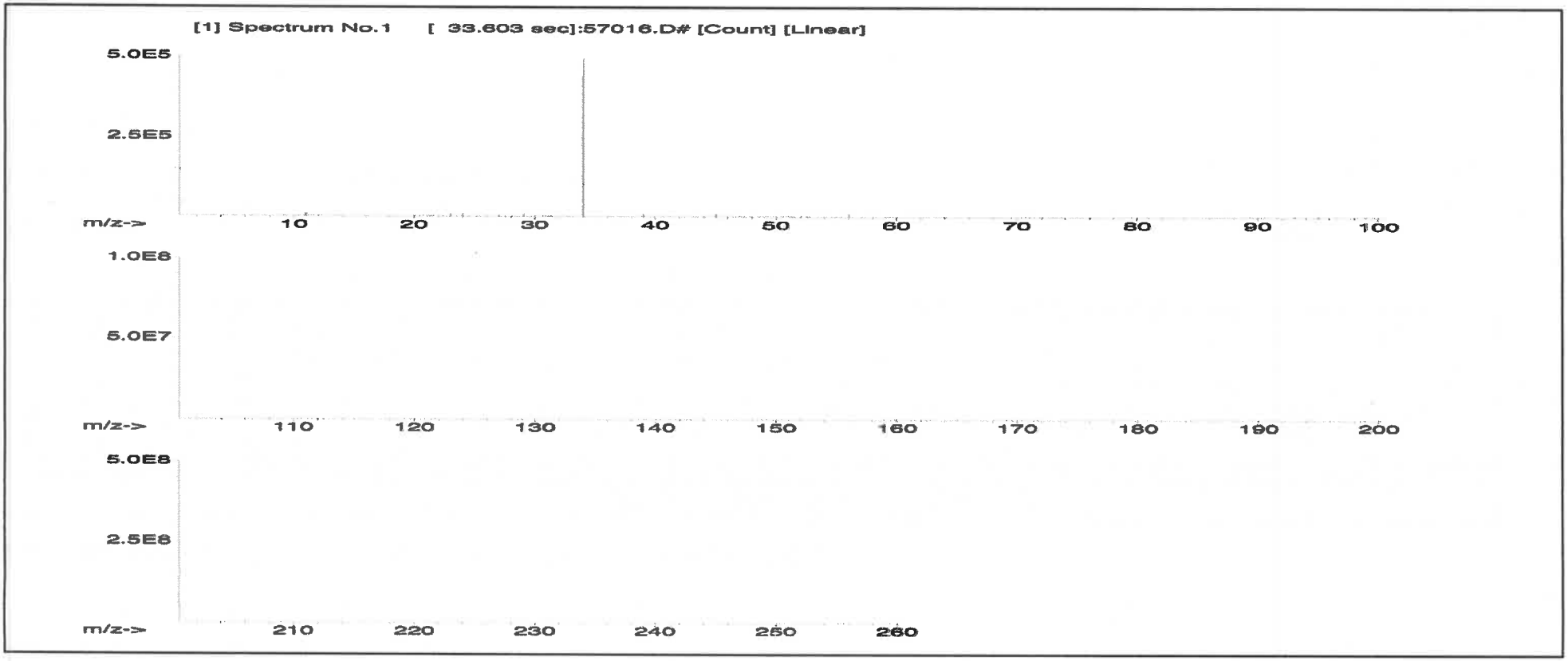
CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5817

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CERTIFIED WEIGHT REPORT:

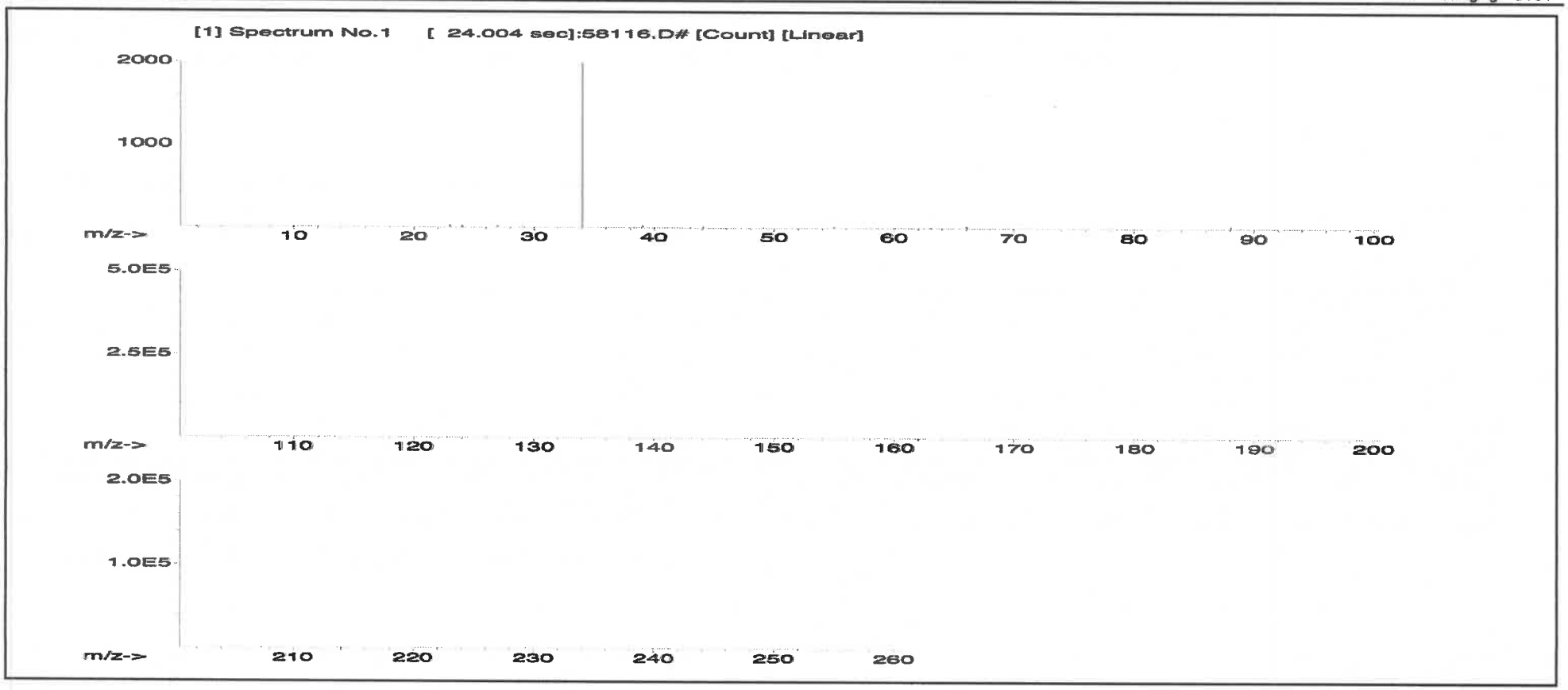
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 02/09/24 M.5818

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CERTIFIED WEIGHT REPORT:

Part Number: 57014
Lot Number: 122023
Description: Silicon (Si)

Expiration Date: 122026
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1999.48 ± 0.058 Flask Uncertainty

Solvent: 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

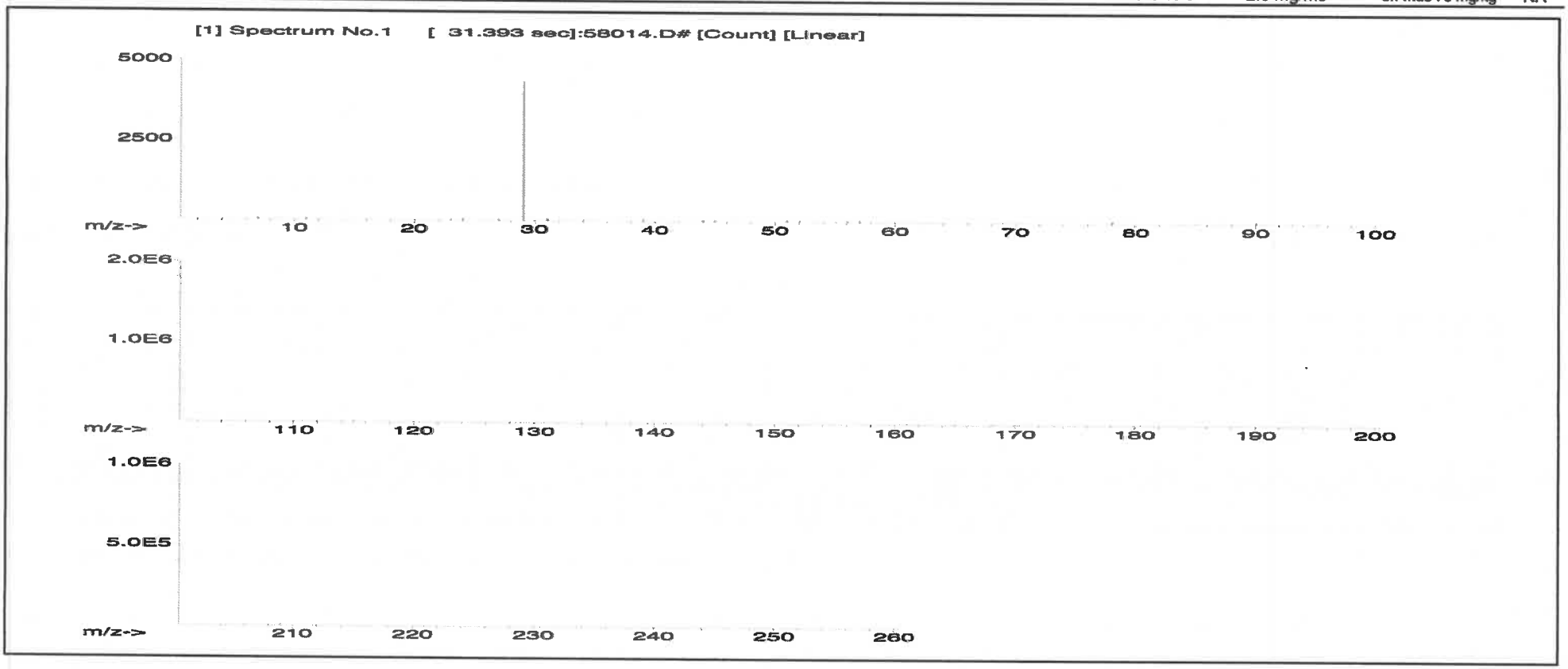
Aleah O'Brady

Formulated By: Aleah O'Brady 122023

Pedro Rentas

Reviewed By: Pedro L. Rentas 122023

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	IN009	SID082022A1	1000	99.999	0.10	14.4	13.8854	13.8855	**1000.0**	**2.0**	16919-19-0	2.5 mg/m3	orl-mus 70 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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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).

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R: 02/09/24 M5819

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CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

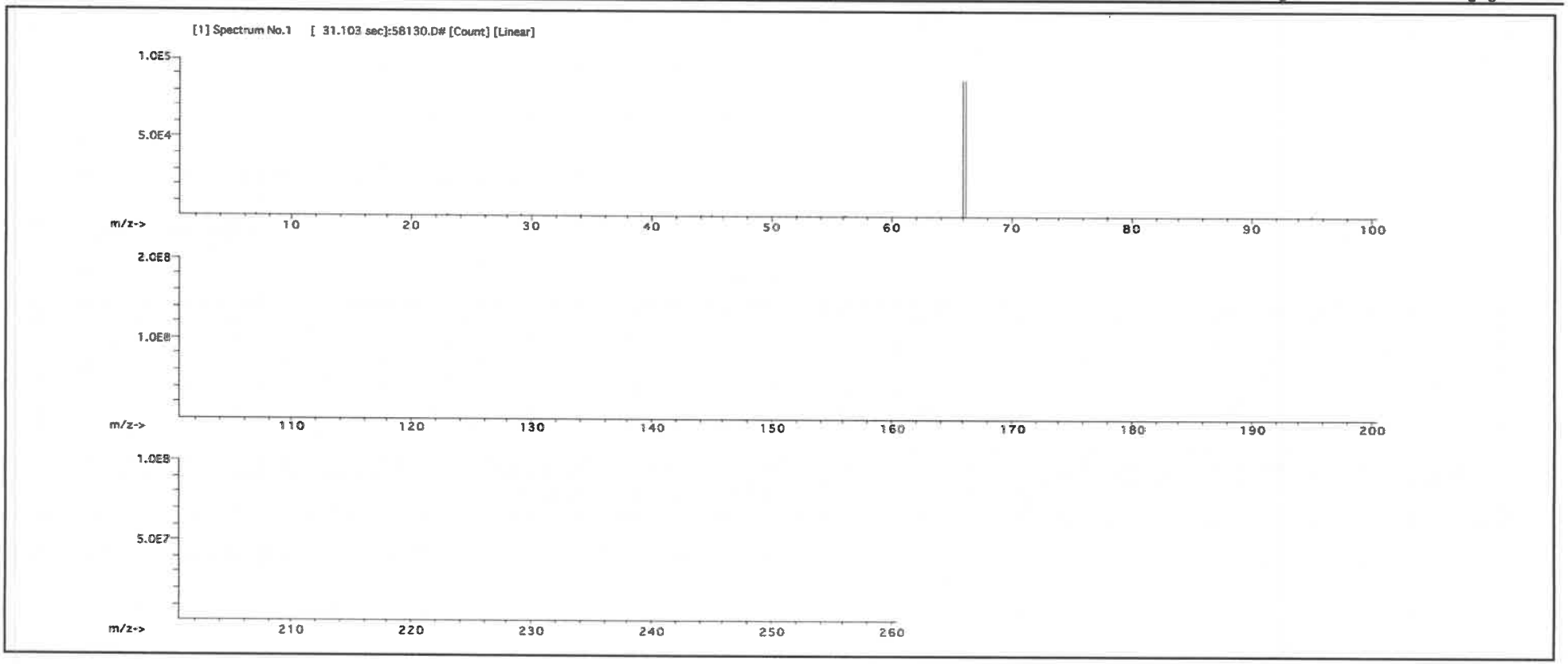
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

		Lot #		
Solvent:	24002546	Nitric Acid		
	2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 02/09/24 M5820

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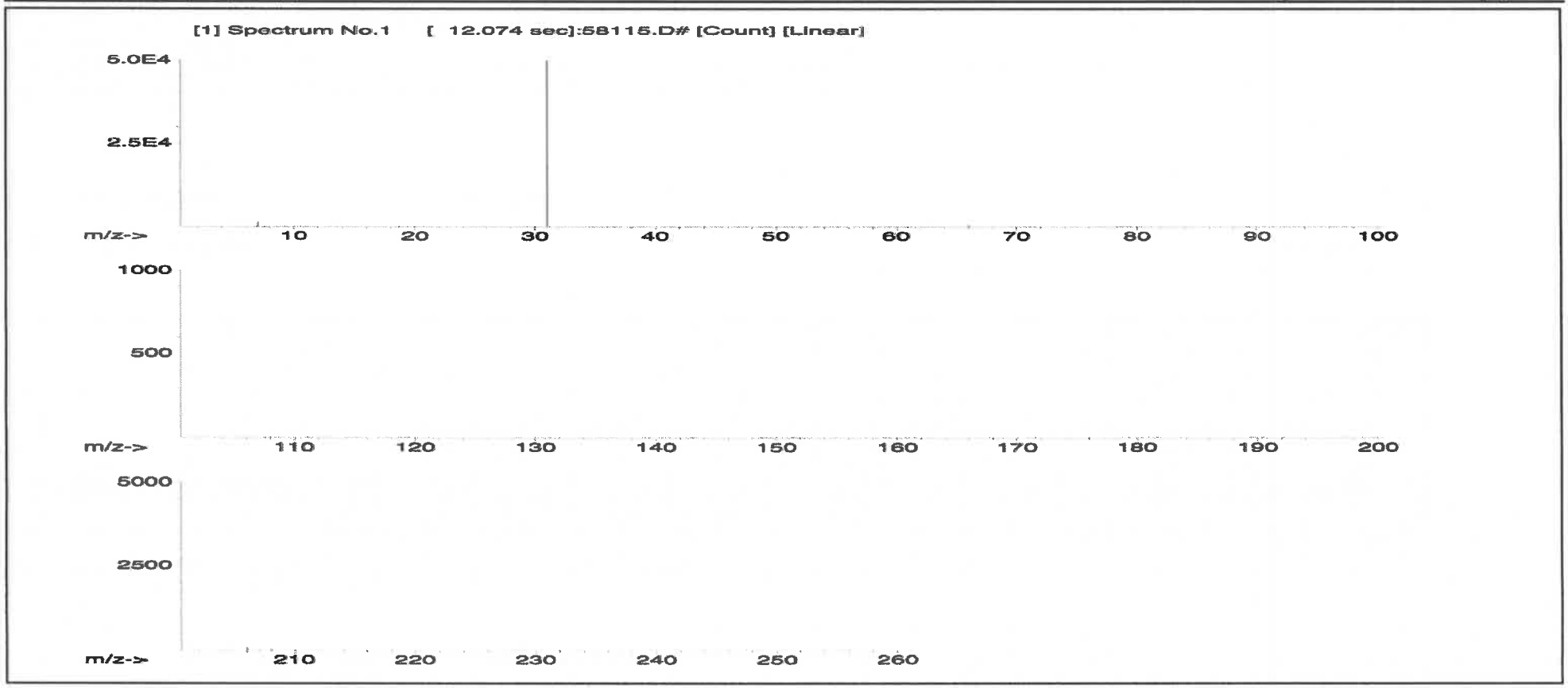
CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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Certified Reference Material CRM

M5961 R: 6/11/24

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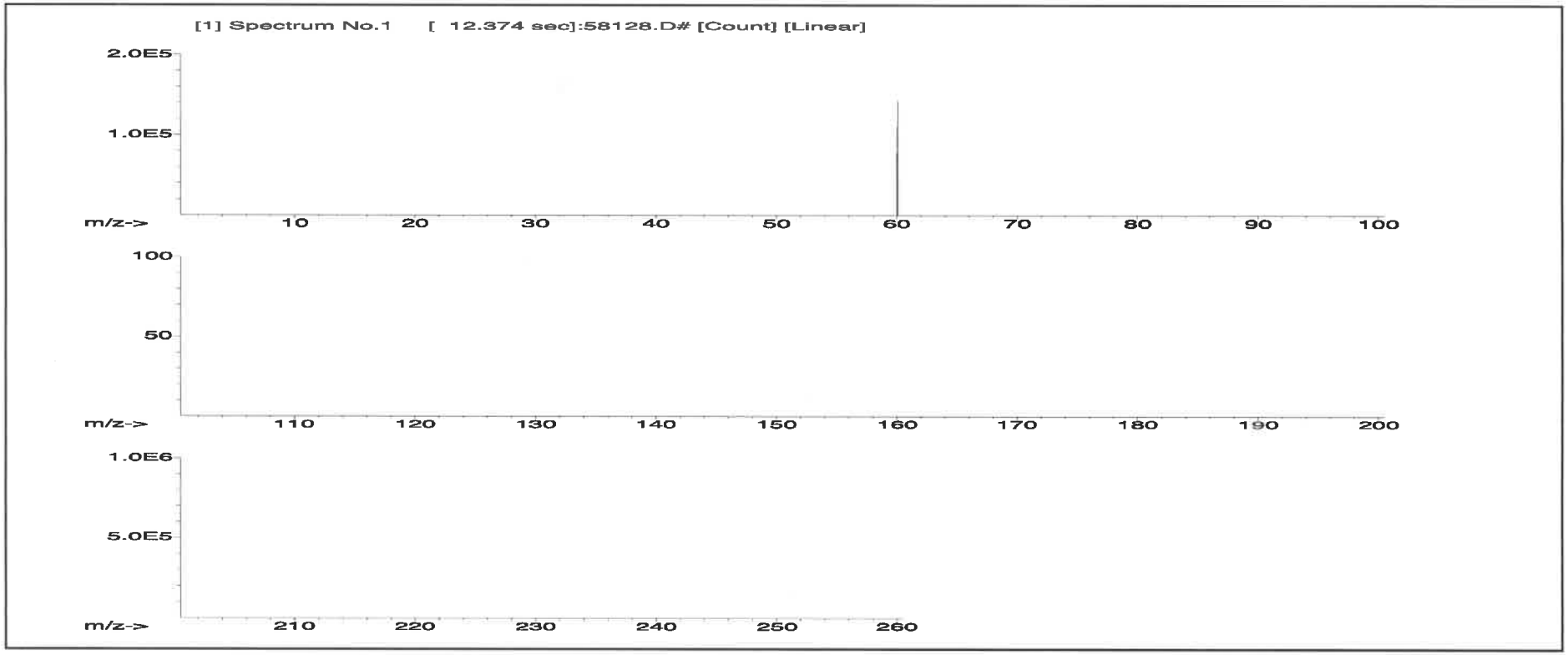
CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57028**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**041124**			
Description:	**Nickel (Ni)**			
		2%	5.0 (mL)	Nitric Acid
Expiration Date:	041127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	249.85	0.002	Flask Uncertainty	

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

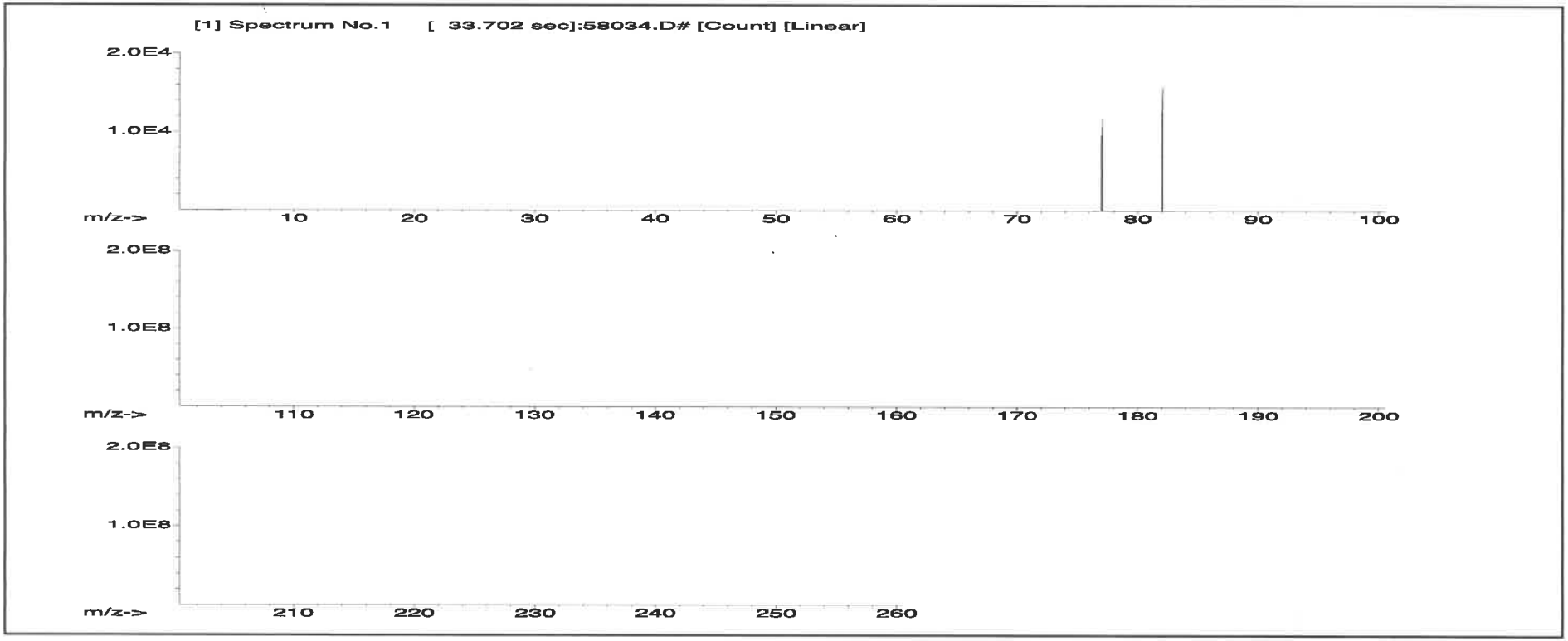
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

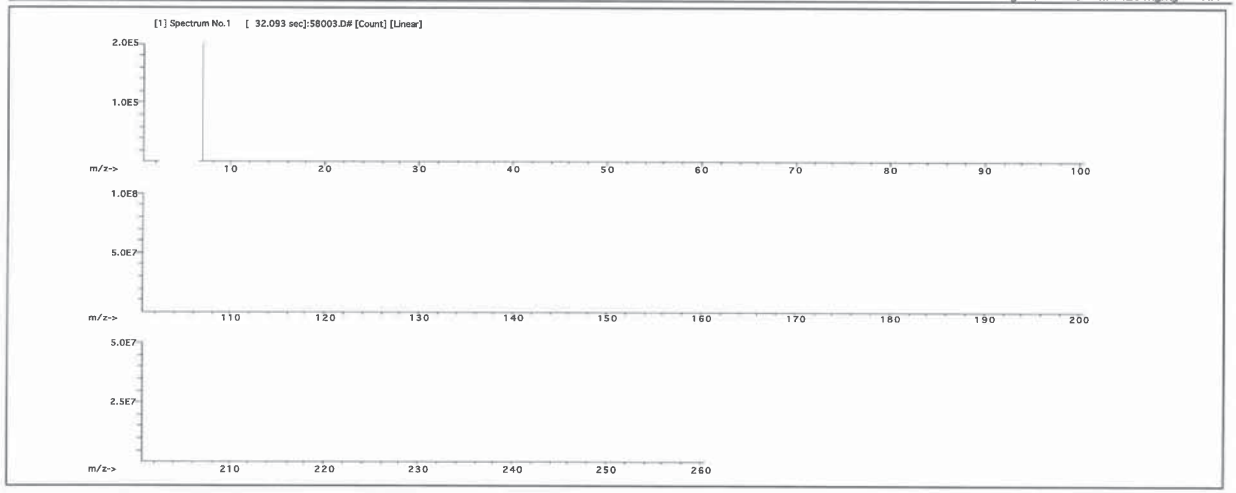
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<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	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

M5976, M5977
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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O 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:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

M5978, M5979

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO_3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma(w_i)^2\ (u_{char\ i})^2]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

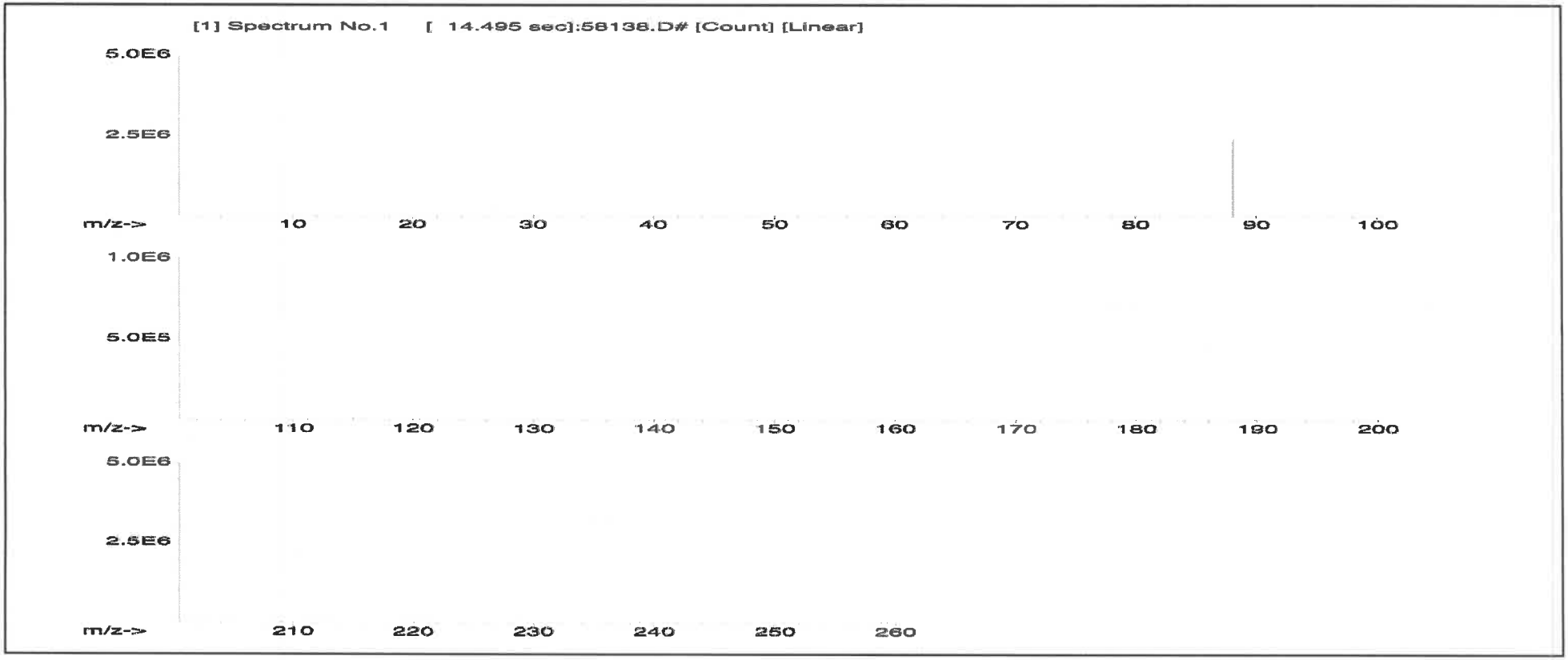
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:	**57038**		**Lot #**		
Lot Number:	**031524**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	031527				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Formulated By:	Benson Chan	031524
Reviewed By:	Pedro L. Rentas	031524

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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R:6/14/24

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

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

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**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 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

- February 20, 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 Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	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, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)\,(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M6033

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

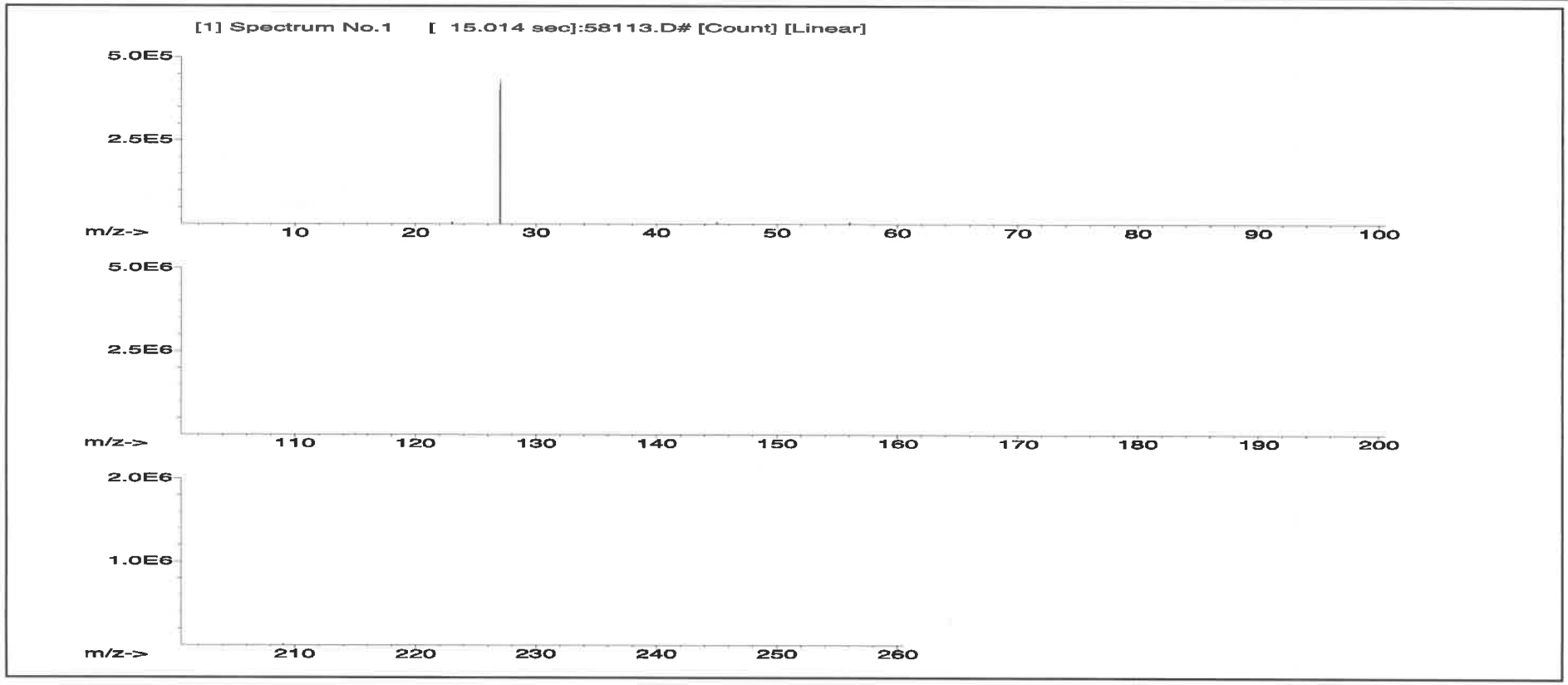
Part Number:	**58113**		**Solvent:**	20510011	Nitric Acid
Lot Number:	**011623**				
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Lot #

Giovanni Esposito

Formulated By:	Giovanni Esposito	011623
Reviewed By:	Pedro L. Rentas	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Nitric Acid 69%
CMOS

Recv date: 1. 1. – 08/01/2023

M6034, M6037
M6035, M6038,
M6036,

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Received — 08/01/2024
paper
M6039
M6040

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.192
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

R: 9/2/24.

Certificate of Analysis

M6080, M6081, M6082, M6083, M6084

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Expiration Date: 122226
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

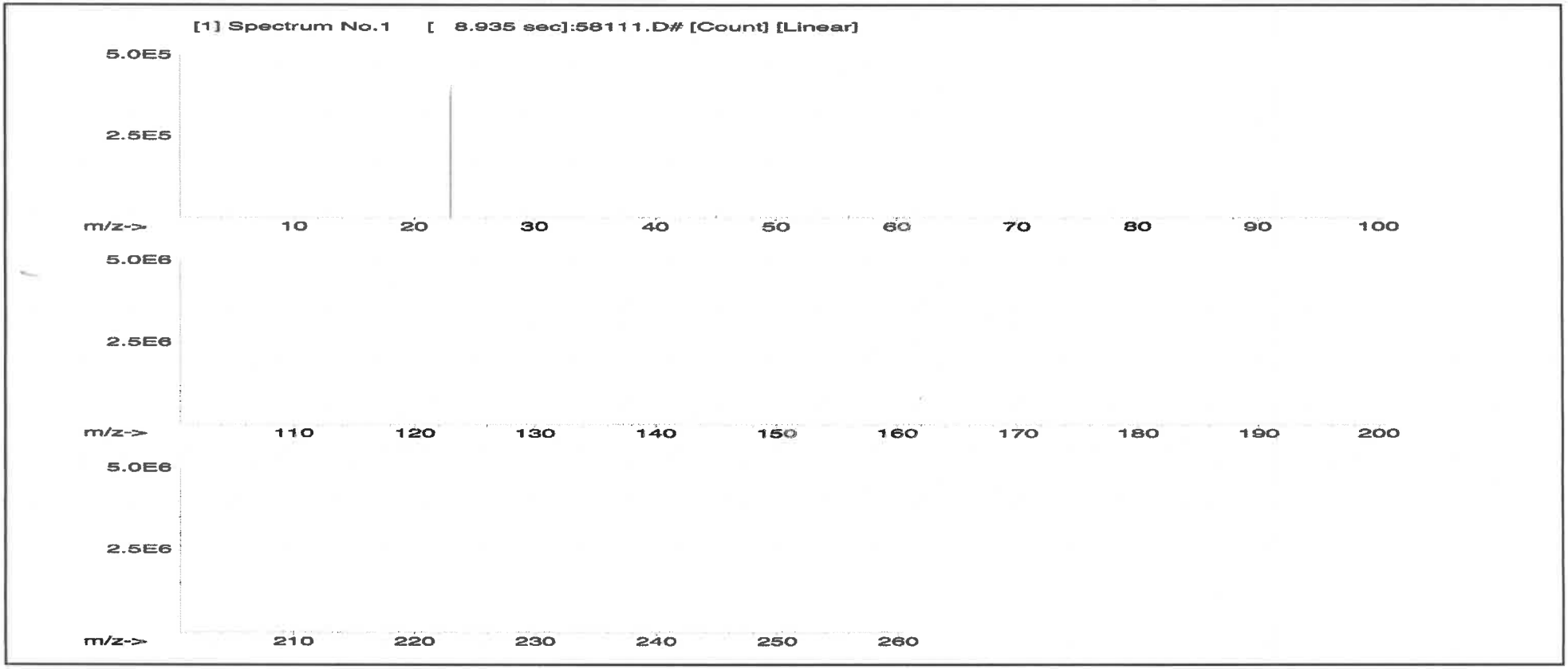
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Aleah O'Brady

Formulated By:	Aleah O'Brady	122223
Reviewed By:	Pedro L. Rentas	122223

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

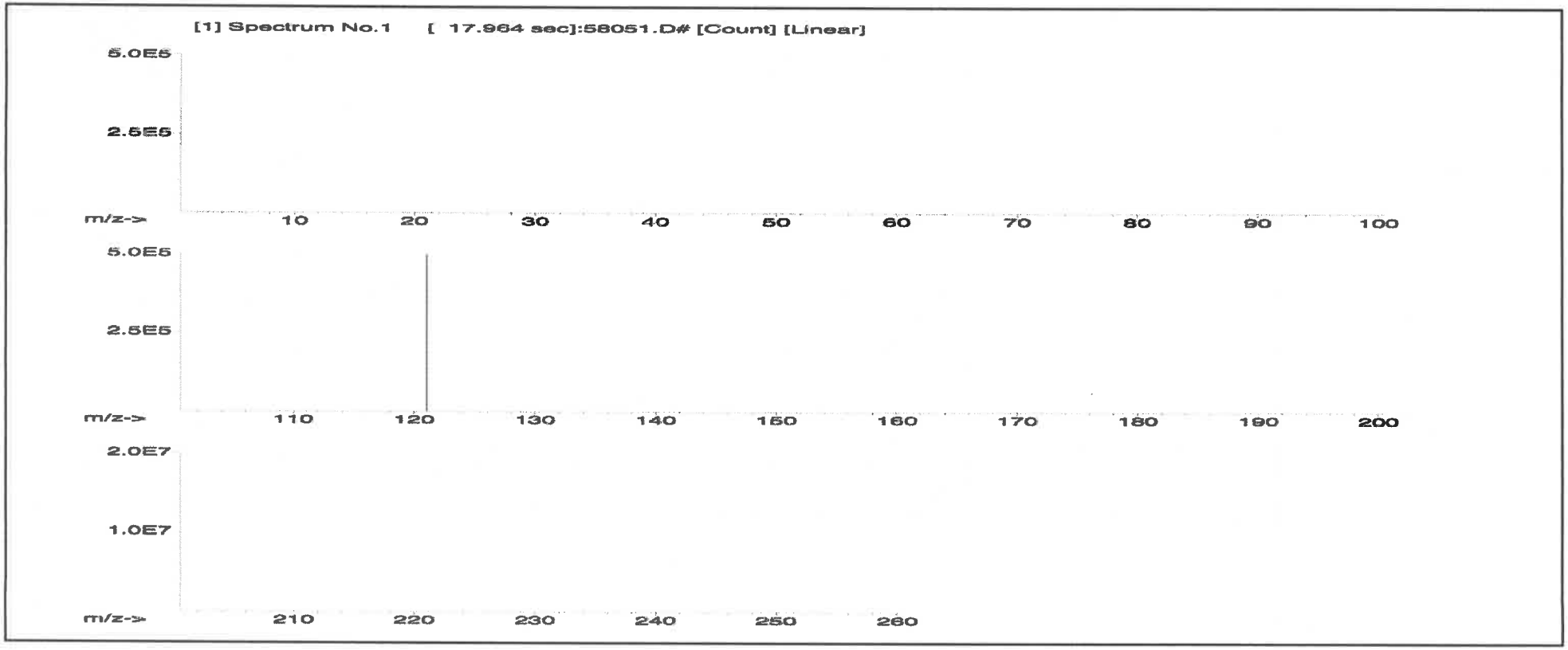
R: 01/03/24 M5802, M5803

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**120523**			
Description:	**Antimony (Sb)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	120526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Rentas	120523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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).

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M6030

R: 8/5/24

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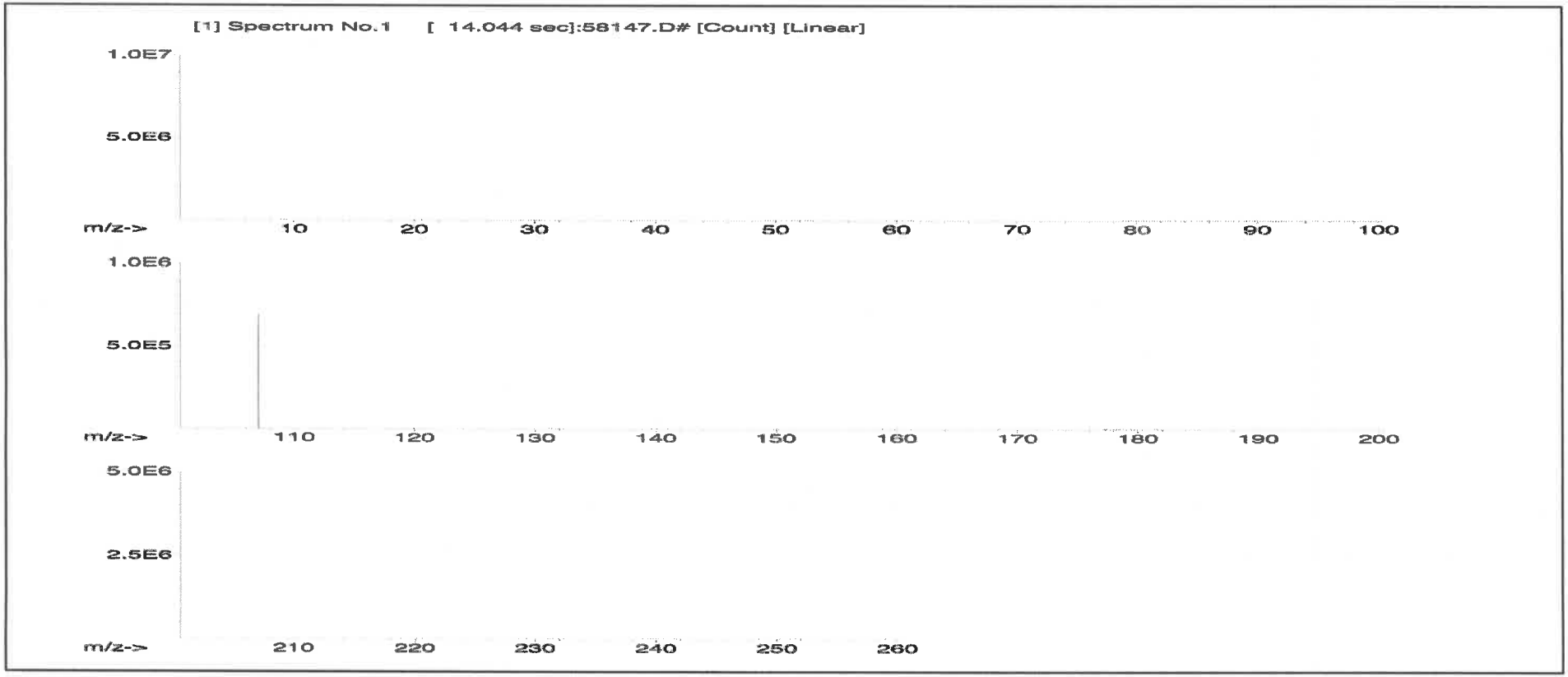
CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Lot #**		
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* 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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R: 03/16/23 M5473, M5474, M5475, M5476

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CERTIFIED WEIGHT REPORT:

Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

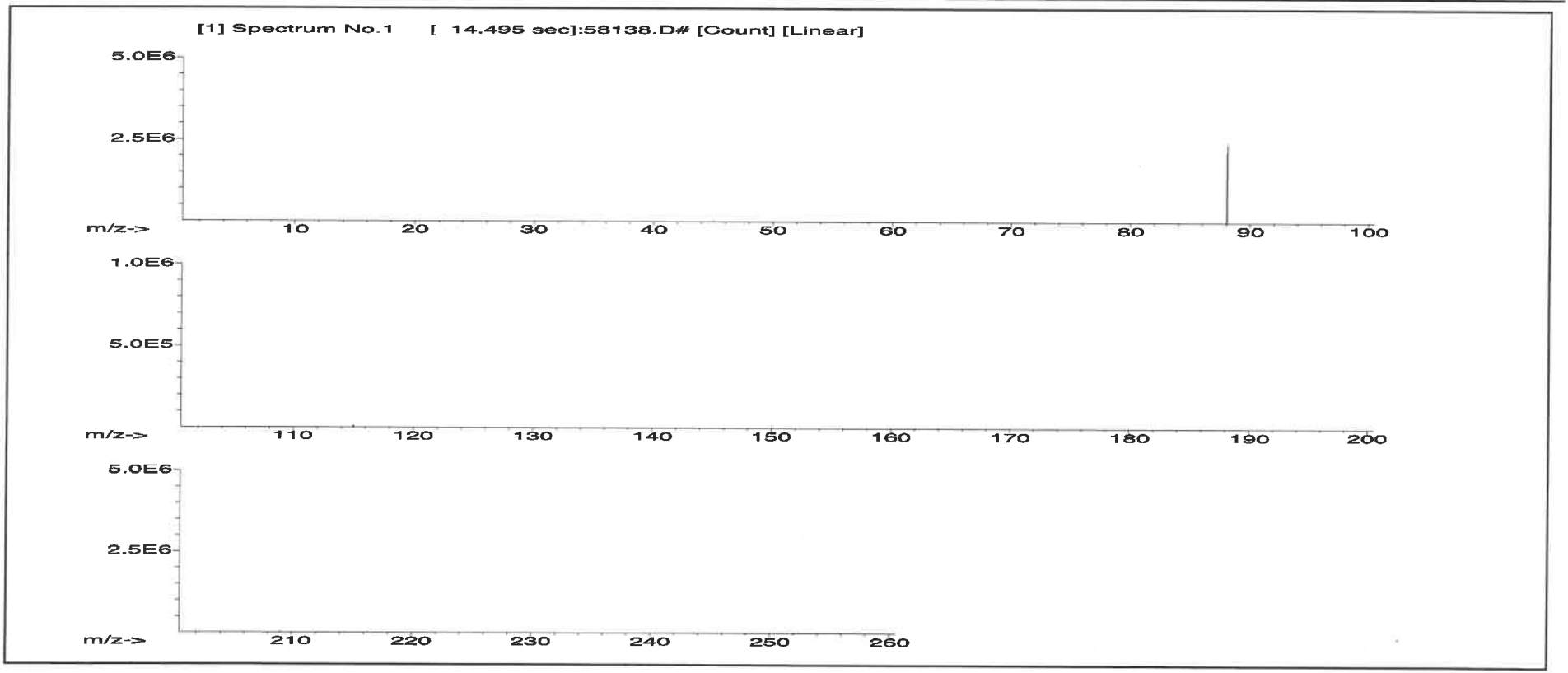
Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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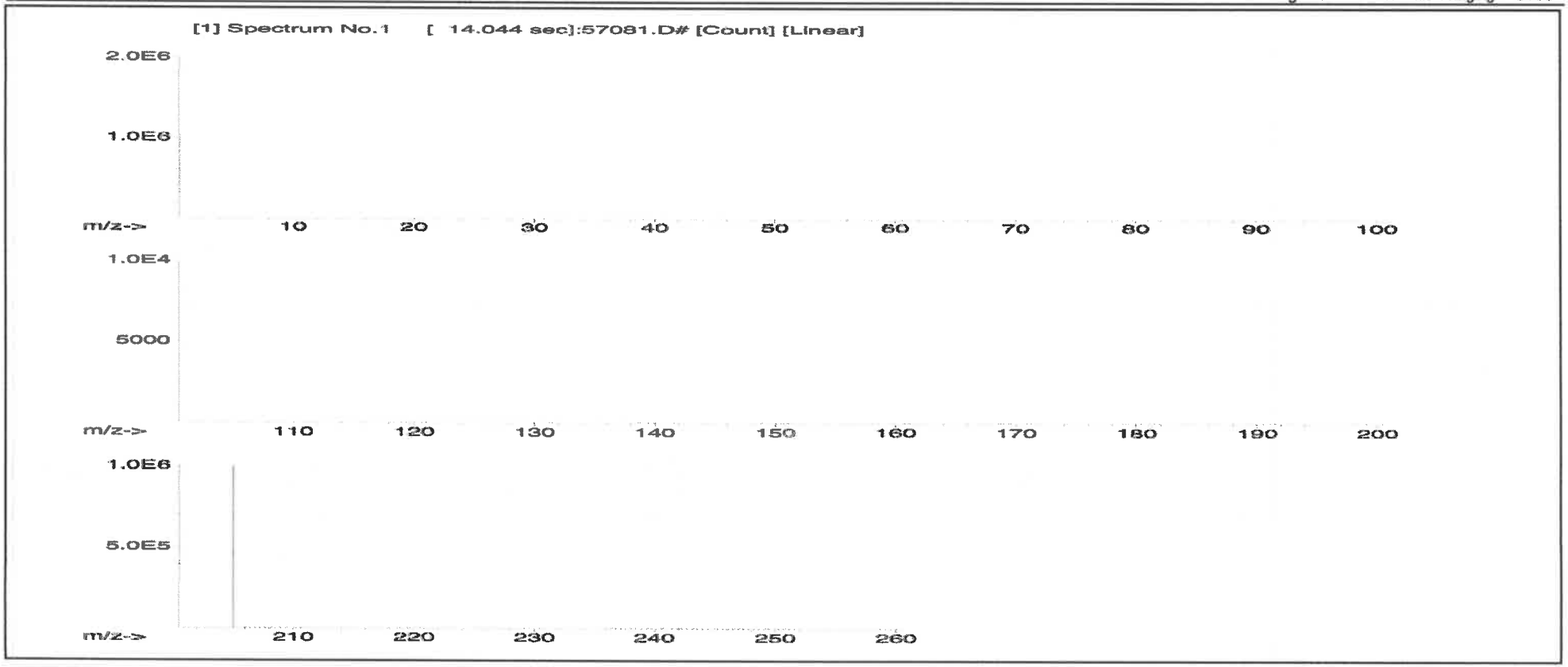
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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Certified by:

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Bc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

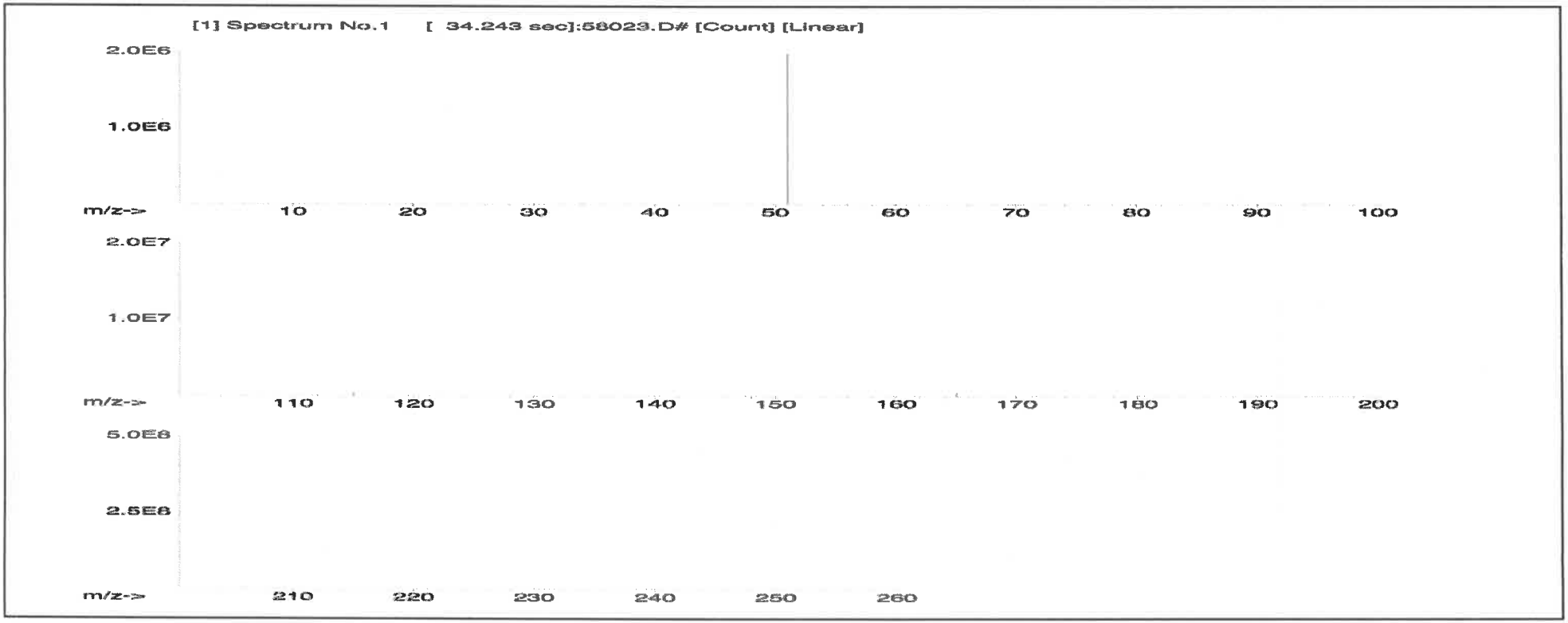
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

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Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB163989

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : MYD0B5

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HG HOT BLOCK #1 2. N/A

Start Digest Date: 10/10/2024 **Time :** 14:45 **Temp :** 97 °C

End Digest Date: 10/10/2024 **Time :** 17:45 **Temp :** 97 °C

Digestion tube ID: M6054

Block thermometer ID: HG-DIG. #1

Dig Technician Signature: jgp

Supervisor Signature:

Temp : 1. 97°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP82711
LCSSD	0.50	MP82711
Spike Sol 6	2.00	MP82731
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP81119
1:1 HCL	5.00	MP82127
CONC: HNO3	5.00	M6083
30% H2O2	3.00	M5634
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:

HG HOT BLOCK #1 Cell #34 Temp : 97 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/10/24 17:55	jgp / Met dig.	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB163989

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4291-01	MYD0B5	N/A	1.17	100	Brown	Yellow	Medium	N/A	N/A	1
P4291-02	MYD0B6	N/A	1.20	100	Brown	Yellow	Medium	N/A	N/A	2
P4291-03	MYD0B7	N/A	1.18	100	Brown	Yellow	Medium	N/A	N/A	3
P4291-04	MYD0B8	N/A	1.09	100	Brown	Yellow	Medium	N/A	N/A	4
P4291-05	MYD0B8D	N/A	1.05	100	Brown	Yellow	Medium	N/A	N/A	6
P4291-06	MYD0B8S	N/A	1.10	100	Brown	Yellow	Medium	N/A	MP82731	27
P4291-07	MYD0B9	N/A	1.18	100	Brown	Yellow	Medium	N/A	N/A	8
P4291-08	MYD0C0	N/A	1.31	100	Brown	Yellow	Medium	N/A	N/A	9
P4291-09	MYD0C1	N/A	1.06	100	Brown	Yellow	Medium	N/A	N/A	10
P4291-10	MYD0C2	N/A	1.20	100	Brown	Yellow	Medium	N/A	N/A	11
P4291-11	MYD0C3	N/A	1.43	100	Brown	Yellow	Medium	N/A	N/A	12
P4291-12	MYD0C4	N/A	1.46	100	Brown	Yellow	Medium	N/A	N/A	13
P4291-13	MYD0C5	N/A	1.05	100	Brown	Yellow	Medium	N/A	N/A	14
P4291-14	MYD0C6	N/A	1.09	100	Brown	Yellow	Medium	N/A	N/A	15
P4291-15	MYD0C7	N/A	1.36	100	Brown	Yellow	Medium	N/A	N/A	16
P4291-16	MYD0C8	N/A	1.49	100	Brown	Yellow	Medium	N/A	N/A	17
P4291-17	MYD0C9	N/A	1.35	100	Brown	Yellow	Medium	N/A	N/A	18
P4291-18	MYD0D0	N/A	1.37	100	Brown	Yellow	Medium	N/A	N/A	19
P4291-19	MYD0D1	N/A	1.23	100	Brown	Yellow	Medium	N/A	N/A	20
P4291-20	MYD0D2	N/A	1.20	100	Brown	Yellow	Medium	N/A	N/A	21
P4291-21	MYD0D3	N/A	1.36	100	Brown	Yellow	Medium	N/A	N/A	22
P4291-22	MYD0D4	N/A	1.24	100	Brown	Yellow	Medium	N/A	N/A	23
PB163989BL	PBS989	N/A	1.00	100	Colorless	Colorless	Fine	N/A	N/A	24
PB163989BS	LCS989	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP82711	28
PB163989BSD	LCSD989	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP82711	29

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Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133008

Review By	Mohan Bera	Review On	10/21/2024 10:52:55 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/22/2024 1:54:03 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	
Chk Standard	MP82455,MP82456

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/18/24 11:34		Kareem	OK
2	S1	S01	CAL2	10/18/24 11:39		Kareem	OK
3	S2	S02	CAL3	10/18/24 11:44		Kareem	OK
4	S3	S03	CAL4	10/18/24 11:48		Kareem	OK
5	S4	S04	CAL5	10/18/24 11:52		Kareem	OK
6	S5	S05	CAL6	10/18/24 11:56		Kareem	OK
7	S6	S06	CAL7	10/18/24 12:01		Kareem	OK
8	ICV003	ICV003	ICV	10/18/24 12:05		Kareem	OK
9	ICB003	ICB003	ICB	10/18/24 12:11	Inst. paused for review	Kareem	OK
10	ICSA003	ICSA003	ICSA	10/18/24 12:15		Kareem	OK
11	ICSAB003	ICSAB003	ICSAB	10/18/24 13:03	Inst. paused for review	Kareem	OK
12	CCV012	CCV012	CCV	10/18/24 13:07		Kareem	OK
13	CCB012	CCB012	CCB	10/18/24 13:22	Inst. paused for review	Kareem	OK
14	PB164193BL	PBS193	MB	10/18/24 13:27		Kareem	OK
15	PB164193BS	LCS193	LCS	10/18/24 13:31		Kareem	OK
16	P4411-07	MJHJ05	SAM	10/18/24 13:36		Kareem	OK
17	P4411-09	MJHJ05S	MS	10/18/24 13:40		Kareem	OK
18	P4411-08	MJHJ05D	DUP	10/18/24 13:45		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133008

Review By	Mohan Bera	Review On	10/21/2024 10:52:55 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/22/2024 1:54:03 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	
Chk Standard	MP82455,MP82456

19	P4411-01	MJHHZ8	SAM	10/18/24 13:49		Kareem	OK
20	P4411-02	MJHHZ9	SAM	10/18/24 13:53		Kareem	OK
21	P4411-03	MJHJ01	SAM	10/18/24 14:05		Kareem	OK
22	P4411-04	MJHJ02	SAM	10/18/24 14:09		Kareem	OK
23	P4411-05	MJHJ03	SAM	10/18/24 14:13		Kareem	OK
24	P4411-06	MJHJ04	SAM	10/18/24 14:18		Kareem	OK
25	P4411-07L	MJHJ05L	SD	10/18/24 14:30		Kareem	OK
26	CCV013	CCV013	CCV	10/18/24 14:34		Kareem	OK
27	CCB013	CCB013	CCB	10/18/24 14:39		Kareem	OK
28	P4248-03DL	MYD9Q3	SAM	10/18/24 14:59	Straight 2x Dilution for all elements	Kareem	OK
29	P4248-04DL	MYD9Q4	SAM	10/18/24 15:03	Straight 2x Dilution for all elements	Kareem	OK
30	P4248-05DL	MYD9Q5	SAM	10/18/24 15:07	Straight 2x Dilution for all elements	Kareem	OK
31	P4248-06DL	MYD9Q6	SAM	10/18/24 15:12	Straight 2x Dilution for all elements	Kareem	OK
32	P4248-07DL	MYD9Q7	SAM	10/18/24 15:16	Straight 2x Dilution for all elements	Kareem	OK
33	P4248-08DL	MYD9Q8	SAM	10/18/24 15:21	Straight 2x Dilution for all elements	Kareem	OK
34	P4248-09DL	MYD9Q9	SAM	10/18/24 15:25	Straight 2x Dilution for all elements	Kareem	OK
35	P4248-10DL	MYD9R0	SAM	10/18/24 15:29	Straight 2x Dilution for all elements	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133008

Review By	Mohan Bera	Review On	10/21/2024 10:52:55 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/22/2024 1:54:03 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	
Chk Standard	MP82455,MP82456

36	P4248-11DL	MYD9R1	SAM	10/18/24 15:34	Straight 2x Dilution for all elements	Kareem	OK
37	P4248-12DL	MYD9R2	SAM	10/18/24 15:38	Straight 2x Dilution for all elements	Kareem	OK
38	P4248-13DL	MYD9R3	SAM	10/18/24 15:42	Straight 2x Dilution for all elements	Kareem	OK
39	P4248-14DL	MYD9R4	SAM	10/18/24 15:47	Straight 2x Dilution for all elements	Kareem	OK
40	P4248-15DL	MYD9R5	SAM	10/18/24 15:51	Straight 2x Dilution for all elements	Kareem	OK
41	P4248-16DL	MYD9R6	SAM	10/18/24 15:56	Straight 2x Dilution for all elements	Kareem	OK
42	P4248-17DL	MYD9R7	SAM	10/18/24 16:00	Straight 2x Dilution for all elements	Kareem	OK
43	P4248-19DL	MYD9R9	SAM	10/18/24 16:09	Straight 2x Dilution for all elements	Kareem	OK
44	P4248-20DL	MYD9S0	SAM	10/18/24 16:13	Straight 2x Dilution for all elements	Kareem	OK
45	P4248-18DL	MYD9R8	SAM	10/18/24 16:20	Straight 2x Dilution for all elements	Kareem	OK
46	P4248-20LDL	MYD9S0L	SD	10/18/24 16:24	Straight 10x Dilution for all elements	Kareem	OK
47	P4248-21DL	MYD9S0D	DUP	10/18/24 16:29	Straight 2x Dilution for all elements	Kareem	OK
48	CCV014	CCV014	CCV	10/18/24 16:33		Kareem	OK
49	CCB014	CCB014	CCB	10/18/24 16:37		Kareem	OK
50	P4248-22DL	MYD9S0S	MS	10/18/24 16:42	MS fail for As (139.20 ppb), Pb (124.83 ppb), Se,Tl (Below RL), Straight 2x Dilution for all elements	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133008

Review By	Mohan Bera	Review On	10/21/2024 10:52:55 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/22/2024 1:54:03 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	
Chk Standard	MP82455,MP82456

51	P4291-01DL	MYD0B5	SAM	10/18/24 16:46	NOT USE	Kareem	Not Ok
52	P4291-02DL	MYD0B6	SAM	10/18/24 16:50	Straight 2x Dilution for all elements	Kareem	OK
53	P4291-03DL	MYD0B7	SAM	10/18/24 16:55	Straight 2x Dilution for all elements	Kareem	OK
54	P4291-04DL	MYD0B8	SAM	10/18/24 16:59	Straight 2x Dilution for all elements	Kareem	OK
55	P4291-05DL	MYD0B8D	DUP	10/18/24 17:04	Straight 2x Dilution for all elements	Kareem	OK
56	P4291-04LDL	MYD0B8L	SD	10/18/24 17:08	Straight 10x Dilution for all elements	Kareem	OK
57	P4291-06DL	MYD0B8S	MS	10/18/24 17:13	Straight 2x Dilution for all elements	Kareem	OK
58	P4291-07DL	MYD0B9	SAM	10/18/24 17:17	Straight 2x Dilution for all elements	Kareem	OK
59	P4291-08DL	MYD0C0	SAM	10/18/24 17:21	Straight 2x Dilution for all elements	Kareem	OK
60	P4291-09DL	MYD0C1	SAM	10/18/24 17:26	Straight 2x Dilution for all elements	Kareem	OK
61	P4291-10DL	MYD0C2	SAM	10/18/24 17:30	Straight 2x Dilution for all elements	Kareem	OK
62	P4291-11DL	MYD0C3	SAM	10/18/24 17:35	Straight 2x Dilution for all elements	Kareem	OK
63	P4291-12DL	MYD0C4	SAM	10/18/24 17:39	Straight 2x Dilution for all elements	Kareem	OK
64	P4291-13DL	MYD0C5	SAM	10/18/24 17:43	Straight 2x Dilution for all elements	Kareem	OK
65	P4291-14DL	MYD0C6	SAM	10/18/24 17:48	Straight 2x Dilution for all elements	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133008

Review By	Mohan Bera	Review On	10/21/2024 10:52:55 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/22/2024 1:54:03 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	
Chk Standard	MP82455,MP82456

66	P4291-15DL	MYD0C7	SAM	10/18/24 17:52	Straight 2x Dilution for all elements	Kareem	OK
67	P4291-16DL	MYD0C8	SAM	10/18/24 17:57	Straight 2x Dilution for all elements	Kareem	OK
68	P4291-17DL	MYD0C9	SAM	10/18/24 18:01	Straight 2x Dilution for all elements	Kareem	OK
69	P4291-18DL	MYD0D0	SAM	10/18/24 18:05	Straight 2x Dilution for all elements	Kareem	OK
70	CCV015	CCV015	CCV	10/18/24 18:10		Kareem	OK
71	CCB015	CCB015	CCB	10/18/24 18:14		Kareem	OK
72	P4291-19DL	MYD0D1	SAM	10/18/24 18:19	Straight 2x Dilution for all elements	Kareem	OK
73	P4291-20DL	MYD0D2	SAM	10/18/24 18:23	Straight 2x Dilution for all elements	Kareem	OK
74	P4291-21DL	MYD0D3	SAM	10/18/24 18:27	Straight 2x Dilution for all elements	Kareem	OK
75	P4291-22DL	MYD0D4	SAM	10/18/24 18:32	Straight 2x Dilution for all elements	Kareem	OK
76	P4292-01DL	MYD0D5	SAM	10/18/24 18:36	Straight 2x Dilution for all elements	Kareem	OK
77	P4292-02DL	MYD0S9	SAM	10/18/24 18:41	Straight 2x Dilution for all elements	Kareem	OK
78	P4292-03DL	MYD0T0	SAM	10/18/24 18:45	Straight 2x Dilution for all elements	Kareem	OK
79	P4292-04DL	MYD0T1	SAM	10/18/24 18:49	Straight 2x Dilution for all elements	Kareem	OK
80	P4292-05DL	MYD0T2	SAM	10/18/24 18:54	Straight 2x Dilution for all elements	Kareem	OK
81	P4292-06DL	MYD0T3	SAM	10/18/24 18:58	Straight 2x Dilution for all elements	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133008

Review By	Mohan Bera	Review On	10/21/2024 10:52:55 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/22/2024 1:54:03 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	
Chk Standard	MP82455,MP82456

82	P4292-07DL	MYD0T4	SAM	10/18/24 19:03	Straight 2x Dilution for all elements	Kareem	OK
83	P4292-08DL	MYD0T5	SAM	10/18/24 19:07	Straight 2x Dilution for all elements	Kareem	OK
84	P4292-09DL	MYD0T6	SAM	10/18/24 19:11	Straight 2x Dilution for all elements	Kareem	OK
85	P4292-10DL	MYD0T7	SAM	10/18/24 19:16	Straight 2x Dilution for all elements	Kareem	OK
86	P4292-11DL	MYD0T8	SAM	10/18/24 19:20	Straight 2x Dilution for all elements	Kareem	OK
87	P4292-12DL	MYD0T9	SAM	10/18/24 19:25	Straight 2x Dilution for all elements	Kareem	OK
88	P4292-13DL	MYD0W0	SAM	10/18/24 19:29	Straight 2x Dilution for all elements	Kareem	OK
89	P4292-14DL	MYD0W1	SAM	10/18/24 19:33	Straight 2x Dilution for all elements	Kareem	OK
90	P4292-15DL	MYD0W2	SAM	10/18/24 19:38	Straight 2x Dilution for all elements	Kareem	OK
91	P4292-16DL	MYD0W2D	DUP	10/18/24 19:42	Straight 2x Dilution for all elements	Kareem	OK
92	CCV016	CCV016	CCV	10/18/24 19:47		Kareem	OK
93	CCB016	CCB016	CCB	10/18/24 19:51		Kareem	OK
94	P4292-15LDL	MYD0W2L	SD	10/18/24 19:55	Straight 10x Dilution for all elements	Kareem	OK
95	P4292-17DL	MYD0W2S	MS	10/18/24 20:00	MS fail for As (287.18 ppb) , Straight 2x Dilution for all elements	Kareem	OK
96	P4292-18DL	MYD0W3	SAM	10/18/24 20:04	Straight 2x Dilution for all elements	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133008

Review By	Mohan Bera	Review On	10/21/2024 10:52:55 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/22/2024 1:54:03 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	
Chk Standard	MP82455,MP82456

97	P4292-19DL	MYD0W4	SAM	10/18/24 20:09	Mn high, Straight 2x Dilution for all elements	Kareem	Dilution
98	P4292-20DL	MYD0W5	SAM	10/18/24 20:13	Straight 2x Dilution for all elements	Kareem	OK
99	P4292-21DL	MYD0W6	SAM	10/18/24 20:17	Straight 2x Dilution for all elements	Kareem	OK
100	P4292-22DL	MYD0W7	SAM	10/18/24 20:22	Straight 2x Dilution for all elements	Kareem	OK
101	P4251-01DL	MYD9W1	SAM	10/18/24 20:26	Straight 2x Dilution for all elements	Kareem	OK
102	P4251-02DL	MYD9W2	SAM	10/18/24 20:30	Straight 2x Dilution for all elements	Kareem	OK
103	P4251-03DL	MYD9W3	SAM	10/18/24 20:35	Straight 2x Dilution for all elements	Kareem	OK
104	P4251-04DL	MYD9W4	SAM	10/18/24 20:39	Straight 2x Dilution for all elements	Kareem	OK
105	P4251-05DL	MYD9W5	SAM	10/18/24 20:44	Straight 2x Dilution for all elements	Kareem	OK
106	P4251-06DL	MYD9W6	SAM	10/18/24 20:48	Straight 2x Dilution for all elements	Kareem	OK
107	P4251-07DL	MYD9W7	SAM	10/18/24 20:52	Straight 2x Dilution for all elements	Kareem	OK
108	P4251-08DL	MYD9W8	SAM	10/18/24 20:57	Straight 2x Dilution for all elements	Kareem	OK
109	P4251-09DL	MYD9W9	SAM	10/18/24 21:01	Straight 2x Dilution for all elements	Kareem	OK
110	P4251-10DL	MYD9W9D	DUP	10/18/24 21:05	Straight 2x Dilution for all elements	Kareem	OK
111	P4251-09LDL	MYD9W9L	SD	10/18/24 21:10	Straight 10x Dilution for all elements	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133008

Review By	Mohan Bera	Review On	10/21/2024 10:52:55 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/22/2024 1:54:03 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	
Chk Standard	MP82455,MP82456

112	P4251-11DL	MYD9W9S	MS	10/18/24 21:14	MS fail for Zn (434.28 ppb), Se (Below RL), Straight 2x Dilution for all elements	Kareem	OK
113	P4251-12DL	MYD9Y8	SAM	10/18/24 21:19	Straight 2x Dilution for all elements	Kareem	OK
114	CCV017	CCV017	CCV	10/18/24 21:23		Kareem	OK
115	CCB017	CCB017	CCB	10/18/24 21:27		Kareem	OK
116	P4251-13DL	MYD9Y9	SAM	10/18/24 21:32	NOT USE	Kareem	Not Ok
117	P4251-14DL	MYD9Z0	SAM	10/18/24 21:36	NOT USE	Kareem	Not Ok
118	P4251-15DL	MYD9Z1	SAM	10/18/24 21:41	NOT USE	Kareem	Not Ok
119	P4251-16DL	MYD9Z2	SAM	10/18/24 21:45	NOT USE	Kareem	Not Ok
120	P4251-17DL	MYD9Z3	SAM	10/18/24 21:49	NOT USE	Kareem	Not Ok
121	P4251-18DL	MYD9Z4	SAM	10/18/24 21:54	NOT USE	Kareem	Not Ok
122	P4251-19DL	MYD9Z5	SAM	10/18/24 21:58	NOT USE	Kareem	Not Ok
123	P4251-20DL	MYD9Z6	SAM	10/18/24 22:02	NOT USE	Kareem	Not Ok
124	P4251-21DL	MYD9Z7	SAM	10/18/24 22:07	NOT USE	Kareem	Not Ok
125	P4251-22DL	MYD9Z8	SAM	10/18/24 22:11	NOT USE	Kareem	Not Ok
126	P4250-01DL	MYD9S1	SAM	10/18/24 22:16	NOT USE	Kareem	Not Ok
127	P4250-02DL	MYD9S2	SAM	10/18/24 22:20	NOT USE	Kareem	Not Ok
128	P4250-03DL	MYD9S3	SAM	10/18/24 22:24	NOT USE	Kareem	Not Ok
129	P4250-04DL	MYD9S4	SAM	10/18/24 22:29	NOT USE	Kareem	Not Ok
130	P4250-05DL	MYD9S5	SAM	10/18/24 22:33	NOT USE	Kareem	Not Ok

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Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133008

Review By	Mohan Bera	Review On	10/21/2024 10:52:55 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/22/2024 1:54:03 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	
Chk Standard	MP82455,MP82456

131	P4250-06DL	MYD9S6	SAM	10/18/24 22:38	NOT USE	Kareem	Not Ok
132	P4250-07DL	MYD9S7	SAM	10/18/24 22:42	NOT USE	Kareem	Not Ok
133	P4250-08DL	MYD9S8	SAM	10/18/24 22:46	NOT USE	Kareem	Not Ok
134	P4250-09DL	MYD9S9	SAM	10/18/24 22:51	NOT USE	Kareem	Not Ok
135	P4250-10DL	MYD9T0	SAM	10/18/24 22:55	NOT USE	Kareem	Not Ok
136	CCV018	CCV018	CCV	10/18/24 23:00	%RSD fail for Al,Ba,be,Ca,Cu,Fe,Mg,Mn, K,Na,V	Kareem	OK
137	CCB018	CCB018	CCB	10/18/24 23:04		Kareem	OK
138	P4250-11DL	MYD9T1	SAM	10/18/24 23:08	NOT USE	Kareem	Not Ok
139	P4250-12DL	MYD9T2	SAM	10/18/24 23:13	NOT USE	Kareem	Not Ok
140	P4250-13DL	MYD9T3	SAM	10/18/24 23:17	NOT USE	Kareem	Not Ok
141	P4250-14DL	MYD9T4	SAM	10/18/24 23:21	NOT USE	Kareem	Not Ok
142	P4250-15DL	MYD9T5	SAM	10/18/24 23:26	NOT USE	Kareem	Not Ok
143	P4250-16DL	MYD9T6	SAM	10/18/24 23:30	NOT USE	Kareem	Not Ok
144	P4250-17DL	MYD9T7	SAM	10/18/24 23:35	NOT USE	Kareem	Not Ok
145	P4250-18DL	MYD9T7D	DUP	10/18/24 23:39	NOT USE	Kareem	Not Ok
146	P4250-17LDL	MYD9T7L	SD	10/18/24 23:43	NOT USE	Kareem	Not Ok
147	P4250-19DL	MYD9T7S	MS	10/18/24 23:48	NOT USE	Kareem	Not Ok
148	P4250-20DL	MYD9T8	SAM	10/18/24 23:52	NOT USE	Kareem	Not Ok
149	P4250-21DL	MYD9T9	SAM	10/18/24 23:57	NOT USE	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133008

Review By	Mohan Bera	Review On	10/21/2024 10:52:55 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/22/2024 1:54:03 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	
Chk Standard	MP82455,MP82456

150	P4250-22DL	MYD9W0	SAM	10/19/24 00:01	NOT USE	Kareem	Not Ok
151	P4252-01DL	MYD9X0	SAM	10/19/24 00:05	NOT USE	Kareem	Not Ok
152	P4252-02DL	MYD9X1	SAM	10/19/24 00:10	NOT USE	Kareem	Not Ok
153	P4252-03DL	MYD9X2	SAM	10/19/24 00:14	NOT USE	Kareem	Not Ok
154	P4252-04DL	MYD9X3	SAM	10/19/24 00:19	NOT USE	Kareem	Not Ok
155	P4252-05DL	MYD9X3D	DUP	10/19/24 00:23	NOT USE	Kareem	Not Ok
156	P4252-04LDL	MYD9X3L	SD	10/19/24 00:27	NOT USE	Kareem	Not Ok
157	P4252-06DL	MYD9X3S	MS	10/19/24 00:32	NOT USE	Kareem	Not Ok
158	CCV019	CCV019	CCV	10/19/24 00:36		Kareem	OK
159	CCB019	CCB019	CCB	10/19/24 00:40	CCB fail for Al	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/23/24 14:17		Kareem	OK
2	S1	S01	CAL2	10/23/24 14:22		Kareem	OK
3	S2	S02	CAL3	10/23/24 14:26		Kareem	OK
4	S3	S03	CAL4	10/23/24 14:31		Kareem	OK
5	S4	S04	CAL5	10/23/24 14:35		Kareem	OK
6	S5	S05	CAL6	10/23/24 14:40		Kareem	OK
7	S6	S06	CAL7	10/23/24 14:44		Kareem	OK
8	ICV009	ICV009	ICV	10/23/24 15:14	Inst. paused for calibration review	Kareem	OK
9	ICB009	ICB009	ICB	10/23/24 15:19		Kareem	OK
10	ICSA009	ICSA009	ICSA	10/23/24 15:23		Kareem	OK
11	ICSAB009	ICSAB009	ICSAB	10/23/24 15:28		Kareem	OK
12	CCV055	CCV055	CCV	10/23/24 15:32		Kareem	OK
13	CCB055	CCB055	CCB	10/23/24 15:36		Kareem	OK
14	PB163989BL	PBS989	MB	10/23/24 15:48		Kareem	OK
15	PB163989BS	LCS989	LCS	10/23/24 15:53		Kareem	OK
16	PB163989BSD	LCSD989	LCSD	10/23/24 15:57		Kareem	OK
17	P4291-01DL	MYD0B5	SAM	10/23/24 16:02		Kareem	OK
18	PB163991BL	PBS991	MB	10/23/24 16:06		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

19	PB163991BS	LCS991	LCS	10/23/24 16:11		Kareem	OK
20	PB163991BSD	LCSD991	LCSD	10/23/24 16:15		Kareem	OK
21	P4292-19DL	MYD0W4	SAM	10/23/24 16:20	4x for Mn	Kareem	Confirms
22	P4292-15ADL	MYD0W2A	PS	10/23/24 16:24	PS For AS - 0.0057 - M5801(1000ppm) - 10ml sample	Kareem	OK
23	P4297-08DL	MYDA60	SAM	10/23/24 16:34	4x for Mn	Kareem	Confirms
24	P4297-14ADL	MYDA66A	PS	10/23/24 16:38	PS for As,Se	Kareem	OK
25	PB164125BL	PBS125	MB	10/23/24 16:43		Kareem	OK
26	PB164125BSD	LCSD125	LCSD	10/23/24 16:52		Kareem	OK
27	P4298-16ADL	MYDA88A	PS	10/23/24 16:56	PS for Sb,Se	Kareem	OK
28	CCV056	CCV056	CCV	10/23/24 17:01		Kareem	OK
29	CCB056	CCB056	CCB	10/23/24 17:05		Kareem	OK
30	P4299-19ADL	MYDAB1A	PS	10/23/24 17:09	PS for As,Ba,Se	Kareem	OK
31	P4301-09ADL	MYDAC1A	PS	10/23/24 17:14	PS for Cu,Se,Zn	Kareem	OK
32	PB164140BL	PBS140	MB	10/23/24 17:18		Kareem	OK
33	PB164140BSD	LCSD140	LCSD	10/23/24 17:27		Kareem	OK
34	P4302-14DL	MYDAE4	SAM	10/23/24 17:32		Kareem	OK
35	P4302-15DL	MYDAE5	SAM	10/23/24 17:36		Kareem	OK
36	P4302-09ADL	MYDAE1A	PS	10/23/24 17:41	PS for As,Se	Kareem	OK
37	PB164143BL	PBS143	MB	10/23/24 17:45		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

38	PB164143BS	LCS143	LCS	10/23/24 17:50		Kareem	OK
39	PB164143BSD	LCSD143	LCSD	10/23/24 17:54		Kareem	OK
40	P4303-01ADL	MYDAE7A	PS	10/23/24 17:59	PS for Sb,Se	Kareem	OK
41	P4304-08ADL	MYDAP2A	PS	10/23/24 18:03	PS for Se	Kareem	OK
42	P4305-01ADL	MYDAJ5A	PS	10/23/24 18:07	PS for As,Se	Kareem	OK
43	PB164254BL	PBS254	MB	10/23/24 18:12		Kareem	OK
44	PB164254BS	LCS254	LCS	10/23/24 18:16		Kareem	OK
45	PB164254BSD	LCSD254	LCSD	10/23/24 18:21		Kareem	OK
46	CCV057	CCV057	CCV	10/23/24 18:25		Kareem	OK
47	CCB057	CCB057	CCB	10/23/24 18:31	Inst. paused for review	Kareem	OK
48	P4312-20ADL	MYDB17A	PS	10/23/24 18:35	PS for As,Se,Zn	Kareem	OK
49	PB164270BL	PBS270	MB	10/23/24 18:40		Kareem	OK
50	PB164270BS	LCS270	LCS	10/23/24 18:44		Kareem	OK
51	PB164270BSD	LCSD270	LCSD	10/23/24 18:49		Kareem	OK
52	P4316-16ADL	MYDB88A	PS	10/23/24 18:58	PS for As,Pb,Mn,Se,Zn	Kareem	OK
53	CCV058	CCV058	CCV	10/23/24 19:08		Kareem	OK
54	CCB058	CCB058	CCB	10/23/24 19:29	Inst. paused for review	Kareem	OK
55	PB164025BL	PBS025	MB	10/23/24 19:34		Kareem	OK
56	PB164025BS	LCS025	LCS	10/23/24 19:39		Kareem	OK
57	PB164025BSD	LCSD025	LCSD	10/23/24 19:43		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

58	P4293-01DL	MYD9Z9	SAM	10/23/24 19:48		Kareem	OK
59	P4293-02DL	MYDA00	SAM	10/23/24 19:52		Kareem	OK
60	P4293-03DL	MYDA01	SAM	10/23/24 19:56		Kareem	OK
61	P4293-04DL	MYDA02	SAM	10/23/24 20:01		Kareem	OK
62	P4293-05DL	MYDA03	SAM	10/23/24 20:05		Kareem	OK
63	P4293-06DL	MYDA04	SAM	10/23/24 20:09		Kareem	OK
64	P4293-07DL	MYDA05	SAM	10/23/24 20:14		Kareem	OK
65	P4293-08DL	MYDA05D	DUP	10/23/24 20:18		Kareem	OK
66	P4293-07LDL	MYDA05L	SD	10/23/24 20:23		Kareem	OK
67	P4293-09DL	MYDA05S	MS	10/23/24 20:27	MS fail for Sb,As,Pb,Se,Tl	Kareem	OK
68	P4293-10DL	MYDA06	SAM	10/23/24 20:31		Kareem	OK
69	P4293-11DL	MYDA07	SAM	10/23/24 20:36		Kareem	OK
70	P4293-12DL	MYDA08	SAM	10/23/24 20:40		Kareem	OK
71	P4293-13DL	MYDA09	SAM	10/23/24 20:45		Kareem	OK
72	P4293-14DL	MYDA10	SAM	10/23/24 20:49		Kareem	OK
73	P4293-15DL	MYDA11	SAM	10/23/24 20:53		Kareem	OK
74	CCV059	CCV059	CCV	10/23/24 20:58		Kareem	OK
75	CCB059	CCB059	CCB	10/23/24 21:03		Kareem	OK
76	P4293-16DL	MYDA12	SAM	10/23/24 21:08		Kareem	OK
77	P4293-17DL	MYDA13	SAM	10/23/24 21:12		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

78	P4293-18DL	MYDA14	SAM	10/23/24 21:17		Kareem	OK
79	P4293-19DL	MYDA15	SAM	10/23/24 21:21		Kareem	OK
80	P4293-20DL	MYDA16	SAM	10/23/24 21:25		Kareem	OK
81	P4293-21DL	MYDA17	SAM	10/23/24 21:30		Kareem	OK
82	P4293-22DL	MYDA18	SAM	10/23/24 21:34		Kareem	OK
83	P4295-01DL	MYD0Z2	SAM	10/23/24 21:39		Kareem	OK
84	P4295-02DL	MYD0Z3	SAM	10/23/24 21:43		Kareem	OK
85	P4295-03DL	MYD0Z4	SAM	10/23/24 21:48		Kareem	OK
86	P4295-04DL	MYD0Z5	SAM	10/23/24 21:52		Kareem	OK
87	P4295-05DL	MYD0Z6	SAM	10/23/24 21:56		Kareem	OK
88	P4295-06DL	MYD0Z7	SAM	10/23/24 22:01		Kareem	OK
89	P4295-07DL	MYD0Z7D	DUP	10/23/24 22:05		Kareem	OK
90	P4295-08DL	MYD0Z7S	MS	10/23/24 22:09	MS Fail for Sb,Se	Kareem	OK
91	P4295-06LDL	MYD0Z7L	SD	10/23/24 22:14		Kareem	OK
92	P4295-09DL	MYD0Z8	SAM	10/23/24 22:18		Kareem	OK
93	P4295-10DL	MYD0Z9	SAM	10/23/24 22:23		Kareem	OK
94	P4295-11DL	MYD100	SAM	10/23/24 22:27		Kareem	OK
95	P4295-12DL	MYD101	SAM	10/23/24 22:32		Kareem	OK
96	P4295-13DL	MYD102	SAM	10/23/24 22:36		Kareem	OK
97	CCV060	CCV060	CCV	10/23/24 22:40		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

98	CCB060	CCB060	CCB	10/23/24 22:45		Kareem	OK
99	P4295-14DL	MYD103	SAM	10/23/24 22:49		Kareem	OK
100	P4295-15DL	MYD104	SAM	10/23/24 22:54		Kareem	OK
101	P4295-16DL	MYD105	SAM	10/23/24 22:58		Kareem	OK
102	P4295-17DL	MYDA38	SAM	10/23/24 23:02		Kareem	OK
103	P4295-18DL	MYDA39	SAM	10/23/24 23:07		Kareem	OK
104	P4295-19DL	MYDA40	SAM	10/23/24 23:11		Kareem	OK
105	P4295-20DL	MYDA41	SAM	10/23/24 23:16		Kareem	OK
106	P4295-21DL	MYDBB3	SAM	10/23/24 23:20		Kareem	OK
107	PB164083BL	PBS083	MB	10/23/24 23:24		Kareem	OK
108	PB164083BS	LCS083	LCS	10/23/24 23:29		Kareem	OK
109	PB164083BSD	LCSD083	LCSD	10/23/24 23:33		Kareem	OK
110	P4310-01DL	MYDAT3	SAM	10/23/24 23:38		Kareem	OK
111	P4310-02DL	MYDAT4	SAM	10/23/24 23:42		Kareem	OK
112	P4310-03DL	MYDAT5	SAM	10/23/24 23:47		Kareem	OK
113	P4310-04DL	MYDAT5D	DUP	10/23/24 23:51		Kareem	OK
114	P4310-03LDL	MYDAT5L	SD	10/23/24 23:56		Kareem	OK
115	P4310-05DL	MYDAT5S	MS	10/24/24	MS fail for Sb,As,Pb,Se,Zn	Kareem	OK
116	P4310-06DL	MYDAT6	SAM	10/24/24 00:04		Kareem	OK
117	P4310-07DL	MYDAT7	SAM	10/24/24 00:09		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

118	P4310-08DL	MYDAT8	SAM	10/24/24 00:13		Kareem	OK
119	CCV061	CCV061	CCV	10/24/24 00:23		Kareem	OK
120	CCB061	CCB061	CCB	10/24/24 00:28		Kareem	OK
121	P4310-09DL	MYDAT9	SAM	10/24/24 00:32		Kareem	OK
122	P4310-10DL	MYDAW0	SAM	10/24/24 00:37		Kareem	OK
123	P4310-11DL	MYDAW1	SAM	10/24/24 00:41		Kareem	OK
124	P4310-12DL	MYDAW2	SAM	10/24/24 00:46		Kareem	OK
125	P4310-13DL	MYDAW3	SAM	10/24/24 00:50		Kareem	OK
126	P4310-14DL	MYDAW4	SAM	10/24/24 00:54		Kareem	OK
127	P4310-15DL	MYDAW5	SAM	10/24/24 00:59		Kareem	OK
128	P4310-16DL	MYDAW6	SAM	10/24/24 01:03		Kareem	OK
129	P4310-17DL	MYDAW7	SAM	10/24/24 01:08		Kareem	OK
130	P4310-18DL	MYDAW8	SAM	10/24/24 01:12		Kareem	OK
131	P4310-19DL	MYDAW9	SAM	10/24/24 01:16		Kareem	OK
132	P4310-20DL	MYDAX0	SAM	10/24/24 01:21		Kareem	OK
133	P4310-21DL	MYDAX1	SAM	10/24/24 01:25		Kareem	OK
134	P4310-22DL	MYDAX2	SAM	10/24/24 01:30		Kareem	OK
135	PB164199BL	PBS199	MB	10/24/24 01:34		Kareem	OK
136	PB164199BS	LCS199	LCS	10/24/24 01:39		Kareem	OK
137	PB164199BSD	LCSD199	LCSD	10/24/24 01:43		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

138	P4318-01DL	MYDB12	SAM	10/24/24 01:48		Kareem	OK
139	P4318-02DL	MYDB13	SAM	10/24/24 01:52		Kareem	OK
140	P4318-03DL	MYDB14	SAM	10/24/24 01:57		Kareem	OK
141	CCV062	CCV062	CCV	10/24/24 02:01		Kareem	OK
142	CCB062	CCB062	CCB	10/24/24 02:05		Kareem	OK
143	P4318-04DL	MYDB15	SAM	10/24/24 02:10		Kareem	OK
144	P4318-05DL	MYDB16	SAM	10/24/24 02:14		Kareem	OK
145	P4318-06DL	MYDB18	SAM	10/24/24 02:19		Kareem	OK
146	P4318-07DL	MYDB19	SAM	10/24/24 02:23		Kareem	OK
147	P4318-08DL	MYDB20	SAM	10/24/24 02:27		Kareem	OK
148	P4318-09DL	MYDB21	SAM	10/24/24 02:32		Kareem	OK
149	P4318-10DL	MYDB22	SAM	10/24/24 02:36		Kareem	OK
150	P4318-11DL	MYDB63	SAM	10/24/24 02:41		Kareem	OK
151	P4318-12DL	MYDB64	SAM	10/24/24 02:45		Kareem	OK
152	P4318-13DL	MYDB65	SAM	10/24/24 02:50		Kareem	OK
153	P4318-14DL	MYDB66	SAM	10/24/24 02:54		Kareem	OK
154	P4318-15DL	MYDB67	SAM	10/24/24 02:58		Kareem	OK
155	P4318-16DL	MYDB68	SAM	10/24/24 03:03		Kareem	OK
156	P4318-17DL	MYDB69	SAM	10/24/24 03:07		Kareem	OK
157	P4318-18DL	MYDB70	SAM	10/24/24 03:12		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

158	P4318-19DL	MYDB71	SAM	10/24/24 03:16		Kareem	OK
159	P4318-20DL	MYDB72	SAM	10/24/24 03:21		Kareem	OK
160	P4318-21DL	MYDB72D	DUP	10/24/24 03:25		Kareem	OK
161	P4318-22DL	MYDB72S	MS	10/24/24 03:29	MS fail for Sb,Mn,Se	Kareem	OK
162	P4318-20LDL	MYDB72L	SD	10/24/24 03:34		Kareem	OK
163	CCV063	CCV063	CCV	10/24/24 03:38		Kareem	OK
164	CCB063	CCB063	CCB	10/24/24 03:42		Kareem	OK
165	PB164274BL	PBS274	MB	10/24/24 03:47	NOT USE	Kareem	Not Ok
166	PB164274BS	LCS274	LCS	10/24/24 03:52	NOT USE	Kareem	Not Ok
167	PB164274BSD	LCSD274	LCSD	10/24/24 03:56	NOT USE	Kareem	Not Ok
168	P4306-01DL	MYDAL9	SAM	10/24/24 04:01		Kareem	OK
169	P4306-02DL	MYDAM0	SAM	10/24/24 04:05		Kareem	OK
170	P4306-03DL	MYDAM1	SAM	10/24/24 04:09		Kareem	OK
171	P4306-04DL	MYDAM2	SAM	10/24/24 04:14		Kareem	OK
172	P4306-05DL	MYDAM3	SAM	10/24/24 04:18		Kareem	OK
173	P4306-06DL	MYDAM4	SAM	10/24/24 04:23		Kareem	OK
174	P4306-07DL	MYDAM5	SAM	10/24/24 04:27		Kareem	OK
175	P4306-08DL	MYDAM6	SAM	10/24/24 04:32		Kareem	OK
176	P4306-09DL	MYDAM7	SAM	10/24/24 04:36		Kareem	OK
177	P4306-10DL	MYDAM8	SAM	10/24/24 04:40		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

178	P4306-11DL	MYDAM9	SAM	10/24/24 04:45		Kareem	OK
179	P4306-12DL	MYDAM9D	DUP	10/24/24 04:49		Kareem	OK
180	P4306-11LDL	MYDAM9L	SD	10/24/24 04:54		Kareem	OK
181	P4306-13DL	MYDAM9S	MS	10/24/24 04:58	MS fail for Sb,As,Se	Kareem	OK
182	P4306-14DL	MYDAN0	SAM	10/24/24 05:02		Kareem	OK
183	P4306-15DL	MYDAN2	SAM	10/24/24 05:07		Kareem	OK
184	P4306-16DL	MYDAN3	SAM	10/24/24 05:11		Kareem	OK
185	CCV064	CCV064	CCV	10/24/24 05:16		Kareem	OK
186	CCB064	CCB064	CCB	10/24/24 05:20		Kareem	OK
187	P4306-17DL	MYDAN4	SAM	10/24/24 05:25		Kareem	OK
188	P4306-18DL	MYDAN5	SAM	10/24/24 05:29		Kareem	OK
189	P4306-19DL	MYDAN6	SAM	10/24/24 05:33		Kareem	OK
190	P4306-20DL	MYDAN7	SAM	10/24/24 05:38		Kareem	OK
191	P4306-21DL	MYDAN8	SAM	10/24/24 05:42		Kareem	OK
192	P4306-22DL	MYDAN9	SAM	10/24/24 05:47		Kareem	OK
193	PB164168BL	PBS168	MB	10/24/24 05:51		Kareem	OK
194	PB164168BS	LCS168	LCS	10/24/24 05:56		Kareem	OK
195	PB164168BSD	LCSD168	LCSD	10/24/24 06:00		Kareem	OK
196	P4296-01DL	MYD0W8	SAM	10/24/24 06:05		Kareem	OK
197	P4296-02DL	MYD0W9	SAM	10/24/24 06:09		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

198	P4296-03DL	MYD0X0	SAM	10/24/24 06:14		Kareem	OK
199	P4296-04DL	MYD0Y2	SAM	10/24/24 06:18		Kareem	OK
200	P4296-05DL	MYD0Y3	SAM	10/24/24 06:22		Kareem	OK
201	P4296-06DL	MYD0Y4	SAM	10/24/24 06:27		Kareem	OK
202	P4296-07DL	MYD0Y5	SAM	10/24/24 06:31		Kareem	OK
203	P4296-08DL	MYD0Y5D	DUP	10/24/24 06:36		Kareem	OK
204	P4296-09DL	MYD0Y5S	MS	10/24/24 06:40	MS fail for Sb,Cr,Cu,Pb,Se,V,Zn	Kareem	OK
205	P4296-07LDL	MYD0Y5L	SD	10/24/24 06:44		Kareem	OK
206	P4296-10DL	MYD0Y9	SAM	10/24/24 06:49		Kareem	OK
207	CCV065	CCV065	CCV	10/24/24 06:53		Kareem	OK
208	CCB065	CCB065	CCB	10/24/24 06:57		Kareem	OK
209	P4296-11DL	MYD0Z0	SAM	10/24/24 07:02		Kareem	OK
210	P4296-12DL	MYD0Z1	SAM	10/24/24 07:06		Kareem	OK
211	P4296-13DL	MYDA43	SAM	10/24/24 07:11		Kareem	OK
212	P4296-14DL	MYDA44	SAM	10/24/24 07:15		Kareem	OK
213	P4296-15DL	MYDA45	SAM	10/24/24 07:20		Kareem	OK
214	P4296-16DL	MYDA46	SAM	10/24/24 07:24		Kareem	OK
215	P4296-17DL	MYDA47	SAM	10/24/24 07:28		Kareem	OK
216	P4296-18DL	MYDA48	SAM	10/24/24 07:33		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

217	P4296-19DL	MYDA49	SAM	10/24/24 07:37		Kareem	OK
218	P4296-20DL	MYDA50	SAM	10/24/24 07:41		Kareem	OK
219	P4296-21DL	MYDA51	SAM	10/24/24 07:46		Kareem	OK
220	P4296-22DL	MYDA52	SAM	10/24/24 07:50		Kareem	OK
221	PB164086BS	LCS086	LCS	10/24/24 07:59		Kareem	OK
222	PB164086BSD	LCSD086	LCSD	10/24/24 08:04		Kareem	OK
223	P4294-01DL	MYDA19	SAM	10/24/24 08:08		Kareem	OK
224	P4294-02DL	MYDA20	SAM	10/24/24 08:13		Kareem	OK
225	P4294-03DL	MYDA21	SAM	10/24/24 08:17		Kareem	OK
226	P4294-04DL	MYDA22	SAM	10/24/24 08:21		Kareem	OK
227	CCV066	CCV066	CCV	10/24/24 08:26		Kareem	OK
228	CCB066	CCB066	CCB	10/24/24 08:30		Kareem	OK
229	P4294-05DL	MYDA23	SAM	10/24/24 08:35		Kareem	OK
230	P4294-06DL	MYDA24	SAM	10/24/24 08:39		Kareem	OK
231	P4294-07DL	MYDA25	SAM	10/24/24 08:44		Kareem	OK
232	P4294-08DL	MYDA26	SAM	10/24/24 08:48		Kareem	OK
233	P4294-09DL	MYDA27	SAM	10/24/24 08:52		Kareem	OK
234	P4294-10DL	MYDA28	SAM	10/24/24 08:57		Kareem	OK
235	P4294-11DL	MYDA29	SAM	10/24/24 09:01		Kareem	OK
236	P4294-12DL	MYDA30	SAM	10/24/24 09:06		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

237	P4294-13DL	MYDA31	SAM	10/24/24 09:10		Kareem	OK
238	P4294-14DL	MYDA32	SAM	10/24/24 09:14		Kareem	OK
239	P4294-15DL	MYDA33	SAM	10/24/24 09:19		Kareem	OK
240	P4294-16DL	MYDA34	SAM	10/24/24 09:23		Kareem	OK
241	P4294-17DL	MYDA35	SAM	10/24/24 09:28		Kareem	OK
242	CCV067	CCV067	CCV	10/24/24 09:32		Kareem	OK
243	CCB067	CCB067	CCB	10/24/24 09:36		Kareem	OK
244	P4294-18DL	MYDA36	SAM	10/24/24 09:41		Kareem	OK
245	P4294-19DL	MYDA37	SAM	10/24/24 09:45		Kareem	OK
246	P4294-20DL	MYDA42	SAM	10/24/24 09:50		Kareem	OK
247	P4294-21DL	MYDA42D	DUP	10/24/24 09:54		Kareem	OK
248	P4294-22DL	MYDA42S	MS	10/24/24 09:58	MS fail for Sb,As,Cu,Se,zn	Kareem	OK
249	P4294-20LDL	MYDA42L	SD	10/24/24 10:03		Kareem	OK
250	PB164031BL	PBS031	MB	10/24/24 10:07		Kareem	OK
251	PB164031BS	LCS031	LCS	10/24/24 10:12		Kareem	OK
252	PB164031BSD	LCSD031	LCSD	10/24/24 10:16		Kareem	OK
253	P4314-01DL	MYDB42	SAM	10/24/24 10:21		Kareem	OK
254	P4314-02DL	MYDB43	SAM	10/24/24 10:25		Kareem	OK
255	P4314-03DL	MYDB44	SAM	10/24/24 10:30		Kareem	OK
256	P4314-04DL	MYDB45	SAM	10/24/24 10:34		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

257	P4314-05DL	MYDB46	SAM	10/24/24 10:38		Kareem	OK
258	P4314-06DL	MYDB47	SAM	10/24/24 10:43		Kareem	OK
259	P4314-07DL	MYDB48	SAM	10/24/24 10:47		Kareem	OK
260	P4314-08DL	MYDB49	SAM	10/24/24 10:52		Kareem	OK
261	P4314-09DL	MYDB50	SAM	10/24/24 10:56		Kareem	OK
262	P4314-10DL	MYDB51	SAM	10/24/24 11:01		Kareem	OK
263	CCV068	CCV068	CCV	10/24/24 11:05		Kareem	OK
264	CCB068	CCB068	CCB	10/24/24 11:09		Kareem	OK
265	P4314-11DL	MYDB51D	DUP	10/24/24 11:14		Kareem	OK
266	P4314-12DL	MYDB51S	MS	10/24/24 11:18	MS fail for Sb,Se	Kareem	OK
267	P4314-10LDL	MYDB51L	SD	10/24/24 11:22		Kareem	OK
268	P4314-13DL	MYDB52	SAM	10/24/24 11:27		Kareem	OK
269	P4314-14DL	MYDB53	SAM	10/24/24 11:31		Kareem	OK
270	P4314-15DL	MYDB54	SAM	10/24/24 11:36		Kareem	OK
271	P4314-16DL	MYDB55	SAM	10/24/24 11:40		Kareem	OK
272	P4314-17DL	MYDB56	SAM	10/24/24 11:45		Kareem	OK
273	P4314-18DL	MYDB57	SAM	10/24/24 11:49		Kareem	OK
274	P4314-19DL	MYDB58	SAM	10/24/24 11:53		Kareem	OK
275	P4314-20DL	MYDB59	SAM	10/24/24 11:58		Kareem	OK
276	P4314-21DL	MYDB60	SAM	10/24/24 12:02		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

277	P4314-22DL	MYDB62	SAM	10/24/24 12:07		Kareem	OK
278	PB164272BS	LCS272	LCS	10/24/24 12:16		Kareem	OK
279	PB164272BSD	LCSD272	LCSD	10/24/24 12:20		Kareem	OK
280	P4317-01DL	MYDB92	SAM	10/24/24 12:25		Kareem	OK
281	P4317-02DL	MYDB93	SAM	10/24/24 12:29		Kareem	OK
282	P4317-03DL	MYDB94	SAM	10/24/24 12:34		Kareem	OK
283	CCV069	CCV069	CCV	10/24/24 12:38		Kareem	OK
284	CCB069	CCB069	CCB	10/24/24 12:42		Kareem	OK
285	P4317-04DL	MYDB95	SAM	10/24/24 12:47		Kareem	OK
286	P4317-05DL	MYDB96	SAM	10/24/24 12:51		Kareem	OK
287	P4317-06DL	MYDB97	SAM	10/24/24 12:55		Kareem	OK
288	P4317-07DL	MYDB98	SAM	10/24/24 13:00		Kareem	OK
289	P4317-08DL	MYDB99	SAM	10/24/24 13:04		Kareem	OK
290	P4317-09DL	MYDBA0	SAM	10/24/24 13:09		Kareem	OK
291	P4317-10DL	MYDBA0D	DUP	10/24/24 13:13		Kareem	OK
292	P4317-11DL	MYDBA0S	MS	10/24/24 13:18	MS fail for Sb,As,Se	Kareem	OK
293	P4317-09LDL	MYDBA0L	SD	10/24/24 13:22		Kareem	OK
294	P4317-12DL	MYDBA1	SAM	10/24/24 13:26		Kareem	OK
295	P4317-13DL	MYDBA2	SAM	10/24/24 13:31		Kareem	OK
296	P4317-14DL	MYDBA3	SAM	10/24/24 13:35		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

297	P4317-15DL	MYDBA4	SAM	10/24/24 13:40		Kareem	OK
298	P4317-16DL	MYDBA5	SAM	10/24/24 13:44		Kareem	OK
299	P4317-17DL	MYDBA6	SAM	10/24/24 13:49		Kareem	OK
300	P4317-18DL	MYDBA7	SAM	10/24/24 13:53		Kareem	OK
301	P4317-19DL	MYDBA9	SAM	10/24/24 13:57		Kareem	OK
302	P4317-20DL	MYDBB0	SAM	10/24/24 14:02		Kareem	OK
303	P4317-21DL	MYDBB1	SAM	10/24/24 14:06		Kareem	OK
304	P4317-22DL	MYDBB2	SAM	10/24/24 14:10		Kareem	OK
305	CCV070	CCV070	CCV	10/24/24 14:15		Kareem	OK
306	CCB070	CCB070	CCB	10/24/24 14:19		Kareem	OK
307	PB164268BL	PBS268	MB	10/24/24 14:24		Kareem	OK
308	PB164268BS	LCS268	LCS	10/24/24 14:28		Kareem	OK
309	PB164268BSD	LCSD268	LCSD	10/24/24 14:33		Kareem	OK
310	PB164272BL	PBS272	MB	10/24/24 14:54		Kareem	OK
311	P4293-07ADL	MYDA05A	PS	10/24/24 15:04	PS For Sb-0.12(MP82589),As -0.0051(M5801),Pb-0.0034(M6026),Se-0.07-MP82590, Tl-0.05-MP82907-10 ml Sample	Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

312	P4294-20ADL	MYDA42A	PS	10/24/24 15:09	PS For Sb-0.12(MP82589),As - 0.0037-M5801,Cu-0.0077-M5761,Se-0.07(MP82592), Zn-0.011(M5819)-10 ml Sample	Kareem	OK
313	P4310-03ADL	MYDAT5A	PS	10/24/24 15:13	PS For Sb-0.12(MP82589),As-0.0033-M5801,Pb-0.0032-M6026,Se-0.07-MP82590,Zn-0.011-M5819 - 10 ml Sample	Kareem	OK
314	P4295-06ADL	MYD0Z7A	PS	10/24/24 15:17	PS for Se - 0.07 - MP82590,PS For Sb-0.12(MP82589) - 10 ml Sample	Kareem	OK
315	P4314-10ADL	MYDB51A	PS	10/24/24 15:22	PS For Sb-0.12(MP82589) , Se - 0.07 - MP82590 - 10 ml Sample	Kareem	OK
316	P4318-20ADL	MYDB72A	PS	10/24/24 15:26	PS For Sb-0.12(MP82589) , Se-0.07-MP82590 , Mn - 0.067 - M5698 - 10 ml Sample	Kareem	OK
317	P4306-11ADL	MYDAM9A	PS	10/24/24 15:31	PS for Sb,As,Se	Kareem	OK
318	P4317-09ADL	MYDBA0A	PS	10/24/24 15:35	PS for Sb,As,Se	Kareem	OK
319	P4296-07ADL	MYD0Y5A	PS	10/24/24 15:40	PS For Sb-0.12(MP82589),Cr-0.012-M5658,Cu-0.016-M5751, Pb-0.018-M6026 , Se - 0.07-MP82590 , V-0.021-M6021,Zn-0.01-M5819 - 10 ml Sample	Kareem	OK
320	PB164086BL	PBS086	MB	10/24/24 15:44		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB133105

Review By	Mohan Bera	Review On	10/24/2024 11:56:30 PM
Supervise By	Sarabjit Jaswal	Supervise On	10/25/2024 1:47:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82632,MP82446,MP82445,MP82444,MP82443,MP82442
ICV Standard	MP82450
CCV Standard	MP82453
ICSA Standard	MP82451,MP82452
CRI Standard	
LCS Standard	MP82711
Chk Standard	MP82455,MP82456

321	PB164140BS	LCS140	LCS	10/24/24 15:48		Kareem	OK
322	PB164125BS	LCS125	LCS	10/24/24 15:53		Kareem	OK
323	CCV071	CCV071	CCV	10/24/24 15:58		Kareem	OK
324	CCB071	CCB071	CCB	10/24/24 16:02		Kareem	OK