EPA SAMPLE NO.

ME28Q6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-01

% Solids: 82.6 Date Received: 12/06/2024

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	7300		12/29/2024	1534
7440-70-2	Calcium	31000		12/29/2024	1534
7439-89-6	Iron	30000		12/29/2024	1534
7439-95-4	Magnesium	6200		12/29/2024	1534
7440-09-7	Potassium	910		12/29/2024	1534
7440-23-5	Sodium	170	J	12/29/2024	1534

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

Comments:

EPA SAMPLE NO.

ME28Q7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-02

% Solids: 89.6 Date Received: 12/06/2024

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	6200		12/29/2024	1537
7440-70-2	Calcium	98000	D	12/30/2024	2131
7439-89-6	Iron	19000		12/29/2024	1537
7439-95-4	Magnesium	13000		12/29/2024	1537
7440-09-7	Potassium	900		12/29/2024	1537
7440-23-5	Sodium	110	J	12/29/2024	1537

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

Comments:

EPA SAMPLE NO.

ME28Q8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-03

% Solids: 92.6 Date Received: 12/06/2024

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	3900		12/29/2024	1541
7440-70-2	Calcium	140000	D	12/30/2024	2135
7439-89-6	Iron	9400		12/29/2024	1541
7439-95-4	Magnesium	53000		12/29/2024	1541
7440-09-7	Potassium	640		12/29/2024	1541
7440-23-5	Sodium	150	J	12/29/2024	1541

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

Comments:

EPA SAMPLE NO.

ME28Q9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-04

% Solids: 94 Date Received: 12/06/2024

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	4500		12/29/2024	1545
7440-70-2	Calcium	54000		12/29/2024	1545
7439-89-6	Iron	12000		12/29/2024	1545
7439-95-4	Magnesium	16000		12/29/2024	1545
7440-09-7	Potassium	310	J	12/29/2024	1545
7440-23-5	Sodium	110	J	12/29/2024	1545

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

Comments:

EPA SAMPLE NO.

ME28R0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-05

% Solids: 92.3 Date Received: 12/06/2024

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	6100		12/29/2024	1549
7440-70-2	Calcium	55000		12/29/2024	1549
7439-89-6	Iron	17000		12/29/2024	1549
7439-95-4	Magnesium	14000		12/29/2024	1549
7440-09-7	Potassium	600		12/29/2024	1549
7440-23-5	Sodium	100	J	12/29/2024	1549

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

Comments:

EPA SAMPLE NO.

ME28R1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-06

% Solids: 82.7 Date Received: 12/06/2024

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	8100		12/29/2024	1553
7440-70-2	Calcium	58000		12/29/2024	1553
7439-89-6	Iron	19000		12/29/2024	1553
7439-95-4	Magnesium	19000		12/29/2024	1553
7440-09-7	Potassium	1400		12/29/2024	1553
7440-23-5	Sodium	130	J	12/29/2024	1553

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

Comments:

EPA SAMPLE NO.

ME28R2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-07

% Solids: 72.4 Date Received: 12/06/2024

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	7300		12/29/2024	1557
7440-70-2	Calcium	73000		12/29/2024	1557
7439-89-6	Iron	41000		12/29/2024	1557
7439-95-4	Magnesium	8800		12/29/2024	1557
7440-09-7	Potassium	1300		12/29/2024	1557
7440-23-5	Sodium	330	J	12/29/2024	1557

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

Comments:

EPA SAMPLE NO.

ME28T4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-08

% Solids: 81.1 Date Received: 12/10/2024

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	8400		12/29/2024	1600
7440-70-2	Calcium	89000	D	12/30/2024	2139
7439-89-6	Iron	33000		12/29/2024	1600
7439-95-4	Magnesium	25000		12/29/2024	1600
7440-09-7	Potassium	1200		12/29/2024	1600
7440-23-5	Sodium	170	J	12/29/2024	1600

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

Comments:

EPA SAMPLE NO.

ME28T5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-09

% Solids: 77.7 Date Received: 12/10/2024

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	8700		12/29/2024	1604
7440-70-2	Calcium	71000		12/29/2024	1604
7439-89-6	Iron	41000		12/29/2024	1604
7439-95-4	Magnesium	19000		12/29/2024	1604
7440-09-7	Potassium	940		12/29/2024	1604
7440-23-5	Sodium	130	J	12/29/2024	1604

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

Comments:

EPA SAMPLE NO.

ME28T6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-10

% Solids: 81.7 Date Received: 12/10/2024

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	5600		12/29/2024	1608
7440-70-2	Calcium	110000	D	12/30/2024	2143
7439-89-6	Iron	60000		12/29/2024	1608
7439-95-4	Magnesium	38000		12/29/2024	1608
7440-09-7	Potassium	470		12/29/2024	1608
7440-23-5	Sodium	180	J	12/29/2024	1608

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

Comments:

EPA SAMPLE NO.

ME28T7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-11

% Solids: 83 Date Received: 12/10/2024

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	6100		12/29/2024	1612
7440-70-2	Calcium	79000	D	12/30/2024	2147
7439-89-6	Iron	17000		12/29/2024	1612
7439-95-4	Magnesium	26000		12/29/2024	1612
7440-09-7	Potassium	690		12/29/2024	1612
7440-23-5	Sodium	120	J	12/29/2024	1612

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

Comments:

EPA SAMPLE NO.

ME28T8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-12

% Solids: 84.2 Date Received: 12/10/2024

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	7200		12/29/2024	1616
7440-70-2	Calcium	100000	D	12/30/2024	2150
7439-89-6	Iron	31000		12/29/2024	1616
7439-95-4	Magnesium	34000		12/29/2024	1616
7440-09-7	Potassium	610		12/29/2024	1616
7440-23-5	Sodium	130	J	12/29/2024	1616

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

Comments:

EPA SAMPLE NO.

ME28T9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-13

% Solids: 76.8 Date Received: 12/10/2024

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	9500		12/29/2024	1619
7440-70-2	Calcium	79000	D	12/30/2024	2154
7439-89-6	Iron	81000	D	12/30/2024	2154
7439-95-4	Magnesium	15000		12/29/2024	1619
7440-09-7	Potassium	1100		12/29/2024	1619
7440-23-5	Sodium	250	J	12/29/2024	1619

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

Comments:

EPA SAMPLE NO.

ME28W0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-14

% Solids: 77.7 Date Received: 12/10/2024

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	8600		12/29/2024	1623
7440-70-2	Calcium	81000		12/29/2024	1623
7439-89-6	Iron	150000	D	12/30/2024	2158
7439-95-4	Magnesium	15000		12/29/2024	1623
7440-09-7	Potassium	820		12/29/2024	1623
7440-23-5	Sodium	340	J	12/29/2024	1623

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

Comments:

EPA SAMPLE NO.

ME28W1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-15

% Solids: 78.4 Date Received: 12/11/2024

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	11000		12/29/2024	1627
7440-70-2	Calcium	70000		12/29/2024	1627
7439-89-6	Iron	100000	D	12/30/2024	2202
7439-95-4	Magnesium	13000		12/29/2024	1627
7440-09-7	Potassium	1400		12/29/2024	1627
7440-23-5	Sodium	340	J	12/29/2024	1627

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

Comments:

EPA SAMPLE NO.

ME28W2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-16

% Solids: 75.3 Date Received: 12/11/2024

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	9900		12/29/2024	1631
7440-70-2	Calcium	69000		12/29/2024	1631
7439-89-6	Iron	79000	D	12/30/2024	2206
7439-95-4	Magnesium	16000		12/29/2024	1631
7440-09-7	Potassium	1100		12/29/2024	1631
7440-23-5	Sodium	300	J	12/29/2024	1631

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

Comments:

EPA SAMPLE NO.

ME28W3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-19

% Solids: 78.4 Date Received: 12/11/2024

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	9000		12/29/2024	1654
7440-70-2	Calcium	55000		12/29/2024	1654
7439-89-6	Iron	43000		12/29/2024	1654
7439-95-4	Magnesium	11000		12/29/2024	1654
7440-09-7	Potassium	1600		12/29/2024	1654
7440-23-5	Sodium	140	J	12/29/2024	1654

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

Comments:

EPA SAMPLE NO.

ME28W4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-20

% Solids: 80.8 Date Received: 12/11/2024

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	10000		12/29/2024	1657
7440-70-2	Calcium	43000		12/29/2024	1657
7439-89-6	Iron	29000		12/29/2024	1657
7439-95-4	Magnesium	9800		12/29/2024	1657
7440-09-7	Potassium	1500		12/29/2024	1657
7440-23-5	Sodium	110	J	12/29/2024	1657

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

Comments:

EPA SAMPLE NO.

ME28W5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-21

% Solids: 78.1 Date Received: 12/11/2024

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	6100		12/29/2024	1701
7440-70-2	Calcium	47000		12/29/2024	1701
7439-89-6	Iron	200000	D	12/31/2024	1415
7439-95-4	Magnesium	7700		12/29/2024	1701
7440-09-7	Potassium	540		12/29/2024	1701
7440-23-5	Sodium	300	J	12/29/2024	1701

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

Comments:

EPA SAMPLE NO.

ME28W6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Q6

Matrix: SOIL Lab Sample ID: P5156-22

% Solids: 77.9 Date Received: 12/11/2024

Analytical Method: ICP_AES

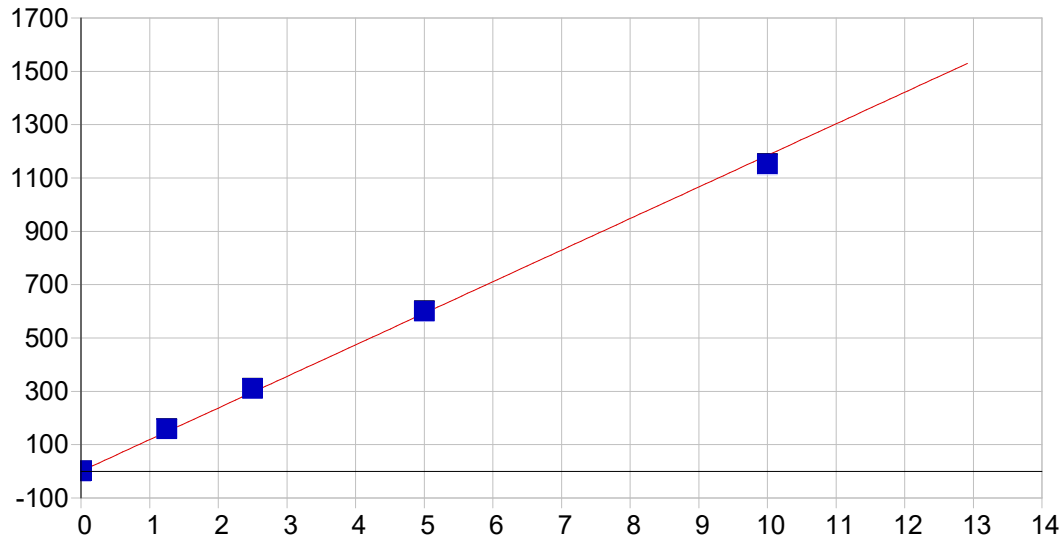
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	7000		12/29/2024	1705
7440-70-2	Calcium	41000		12/29/2024	1705
7439-89-6	Iron	130000	D	12/30/2024	2225
7439-95-4	Magnesium	7900		12/29/2024	1705
7440-09-7	Potassium	760		12/29/2024	1705
7440-23-5	Sodium	200	J	12/29/2024	1705

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

Comments:

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



As 189.042 {478}

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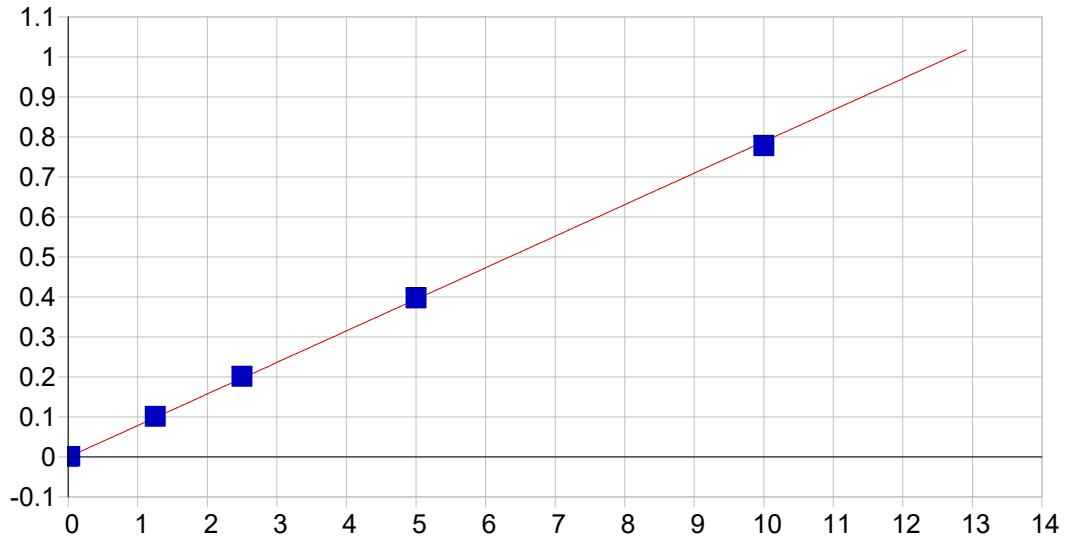
A1 (Gain):	118.415562	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999465	Status:	OK.
Std Error of Est:	0.064686		
Predicted MDL:	0.006216		
Predicted MQL:	0.020719		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.44832	.500	1
S1	.01000	.00927	-.001	-7.31	1.5442	.163	1
S2	1.2500	1.3377	.088	7.02	158.23	.513	1
S3	2.5000	2.6157	.116	4.63	308.95	1.13	1
S4	5.0000	5.0692	.069	1.38	598.23	1.61	1
S5	10.000	9.7281	-.272	-2.72	1147.4	1.95	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



Tl 190.856 {477}

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A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.003985		
Predicted MQL:	0.013285		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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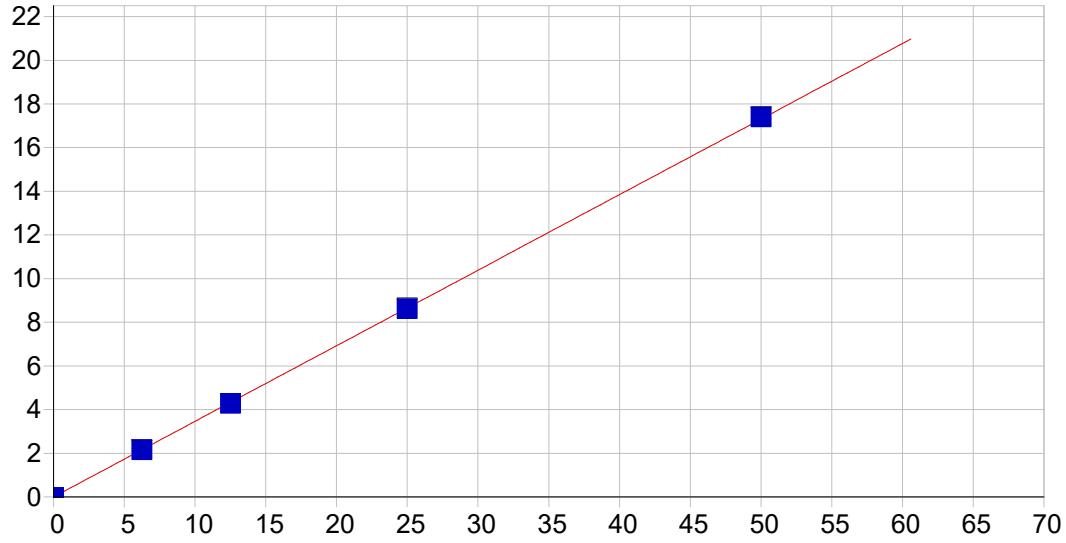
S1	.02500	.02787	.003	11.5	.00174	.000	1
S2	1.2500	1.2856	.036	2.85	.10074	.000	1
S3	2.5000	2.5527	.053	2.11	.20041	.001	1
S4	5.0000	5.0416	.042	.831	.39618	.001	1
S5	10.000	9.8674	-.133	-1.33	.77573	.002	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



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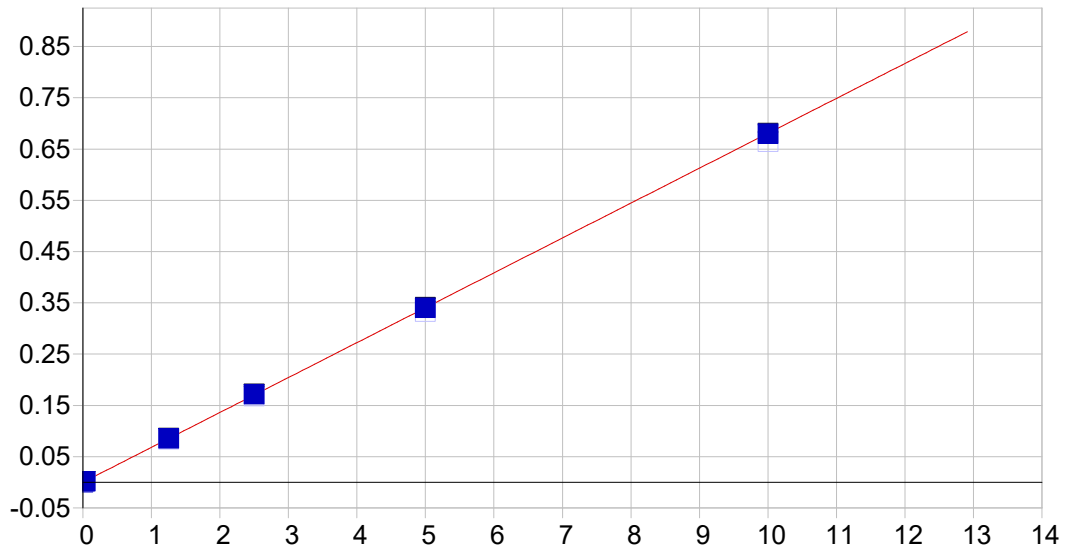
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000076		
Predicted MDL:	0.002171		
Predicted MQL:	0.007236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00090	.000	1
S1	.01000	.00972	-.000	-2.76	.00425	.000	1
S2	6.2500	6.2027	-.047	-.757	2.1474	.005	1
S3	12.500	12.374	-.126	-1.01	4.2830	.003	1
S4	25.000	24.918	-.082	-.328	8.6240	.020	1
S5	50.000	50.256	.256	.511	17.392	.023	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



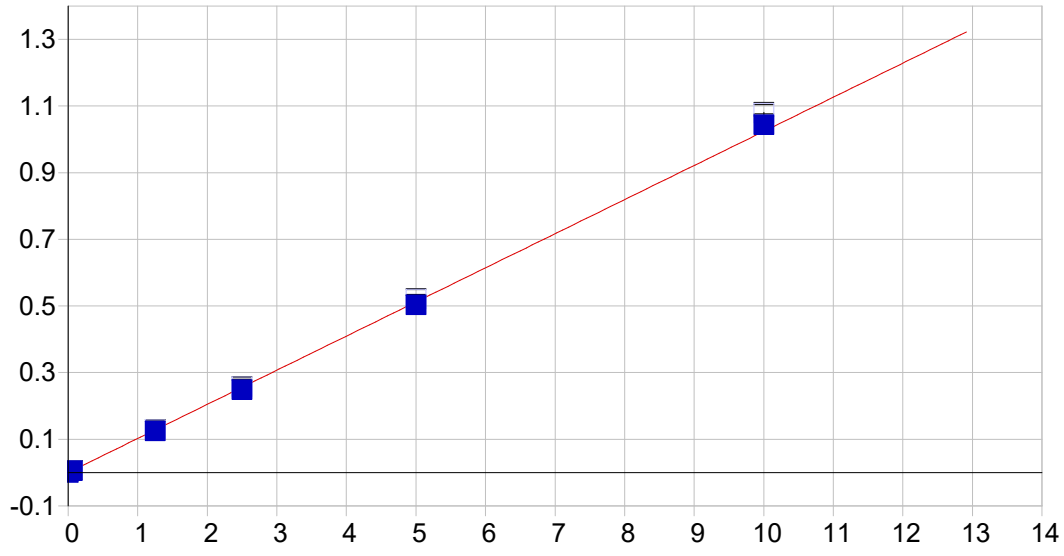
Se 196.090 {472}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000083	Re-Slope:	1.000000
A1 (Gain):	0.068066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999960	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	0.005525		
Predicted MQL:	0.018417		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00008	.000	1
S1	.03500	.02851	-.006	-18.5	.00202	.000	1
S2	1.2500	1.2578	.008	.620	.08378	.001	1
S3	2.5000	2.5191	.019	.764	.16772	.001	1
S4	5.0000	4.9991	-.001	-.017	.33270	.001	1
S5	10.000	9.9806	-.019	-.194	.66411	.001	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



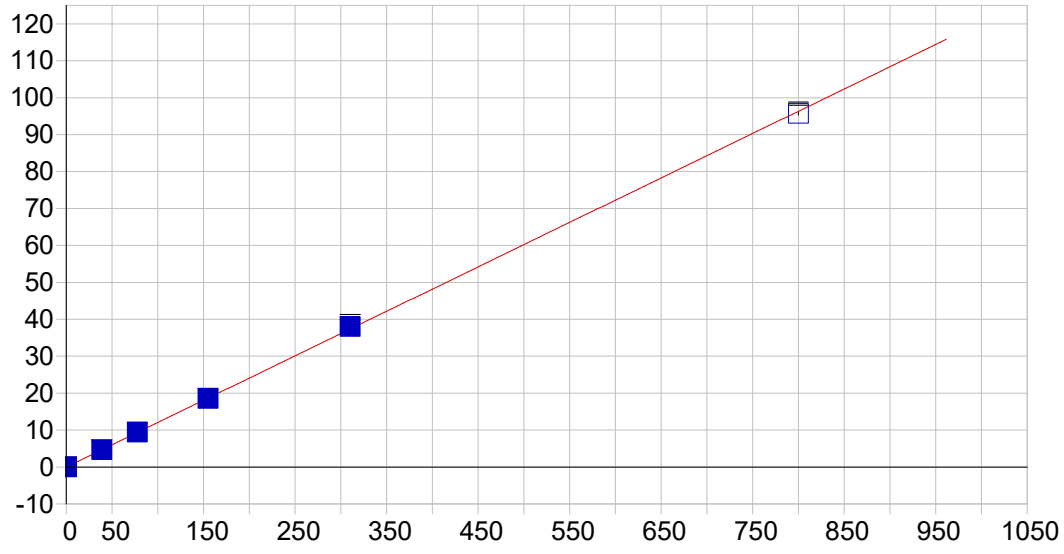
Sb 206.833 {463}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.102398	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999794	Status:	OK.
Std Error of Est:	0.000088		
Predicted MDL:	0.004494		
Predicted MQL:	0.014979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00000	.000	1
S1	.06000	.05577	-.004	-7.05	.00572	.000	1
S2	1.2500	1.2137	-.036	-2.91	.12856	.000	1
S3	2.5000	2.4316	-.068	-2.74	.25755	.001	1
S4	5.0000	4.9169	-.083	-1.66	.52060	.001	1
S5	10.000	10.192	.192	1.92	1.0779	.003	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



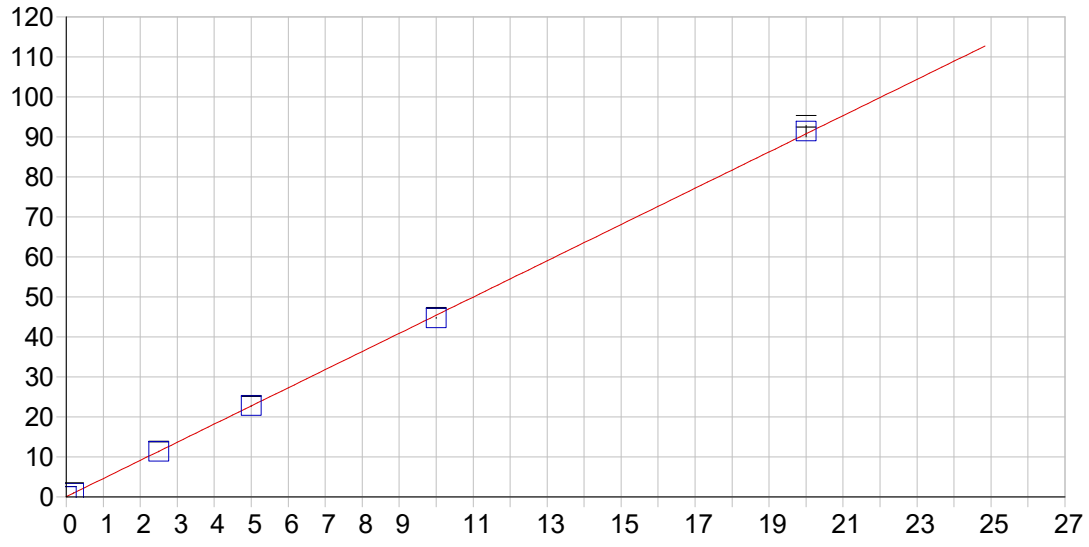
Al 396.152 { 85}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001994	Re-Slope:	1.000000
A1 (Gain):	0.120415	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.000760		
Predicted MDL:	0.026066		
Predicted MQL:	0.086887		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00199	.003	1
S1	.20000	.20082	.001	.409	.02223	.001	1
S2	38.750	38.883	.133	.342	4.6851	.024	1
S3	77.500	77.982	.482	.622	9.3984	.037	1
S4	155.00	153.96	-1.04	-.671	18.557	.062	1
S5	310.00	315.55	5.55	1.79	38.035	.609	1
S6	800.00	794.87	-5.13	-.641	95.713	.392	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



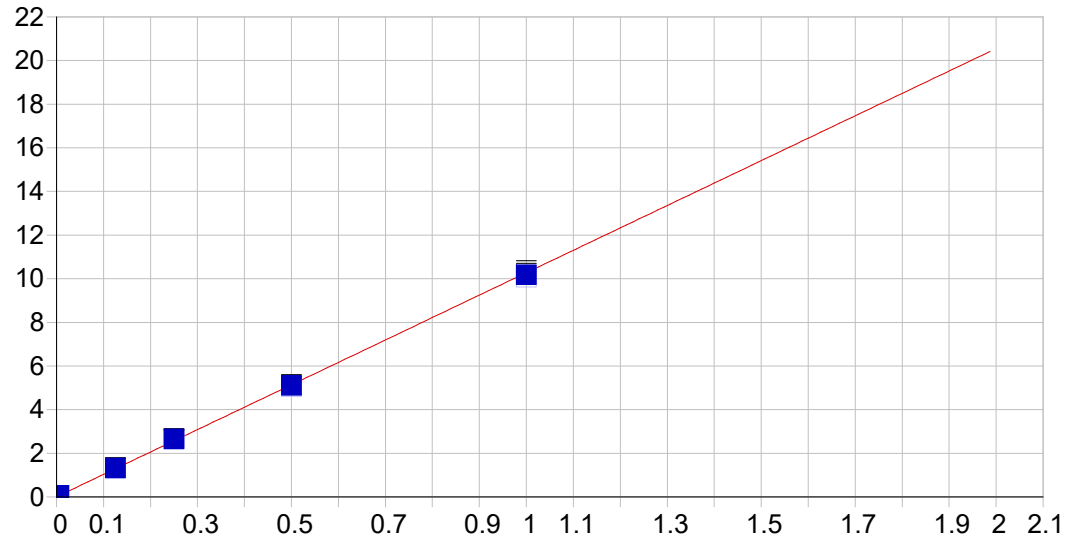
Ba 493.409 { 68}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.058496	Re-Slope:	1.000000
A1 (Gain):	4.535959	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.004605		
Predicted MDL:	0.001461		
Predicted MQL:	0.004870		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.05848	.003	1
S1	.20000	.20647	.006	3.23	.99502	.007	1
S2	2.5000	2.4918	-.008	-.328	11.361	.096	1
S3	5.0000	5.0065	.006	.130	22.768	.118	1
S4	10.000	9.8525	-.147	-1.47	44.749	.142	1
S5	20.000	20.143	.143	.714	91.425	1.42	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



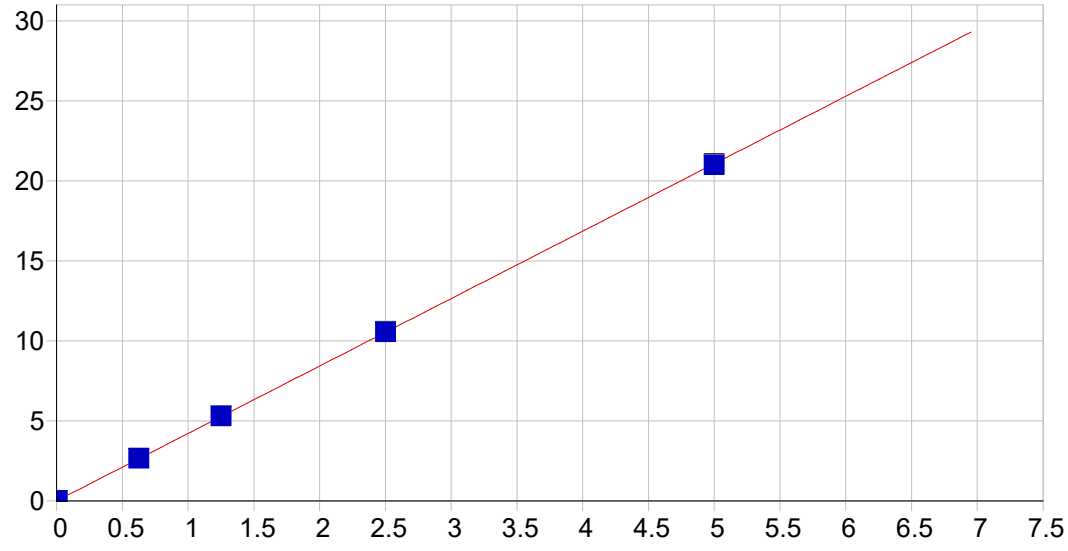
Be 234.861 {144}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002231	Re-Slope:	1.000000
A1 (Gain):	10.273377	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999866	Status:	OK.
Std Error of Est:	0.000624		
Predicted MDL:	0.000162		
Predicted MQL:	0.000540		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00223	.002	1
S1	.00500	.00518	.000	3.54	.05534	.003	1
S2	.12500	.12894	.004	3.15	1.3114	.005	1
S3	.25000	.25804	.008	3.22	2.6222	.018	1
S4	.50000	.49710	-.003	-.581	5.0470	.042	1
S5	1.0000	.99074	-.009	-.926	10.056	.190	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



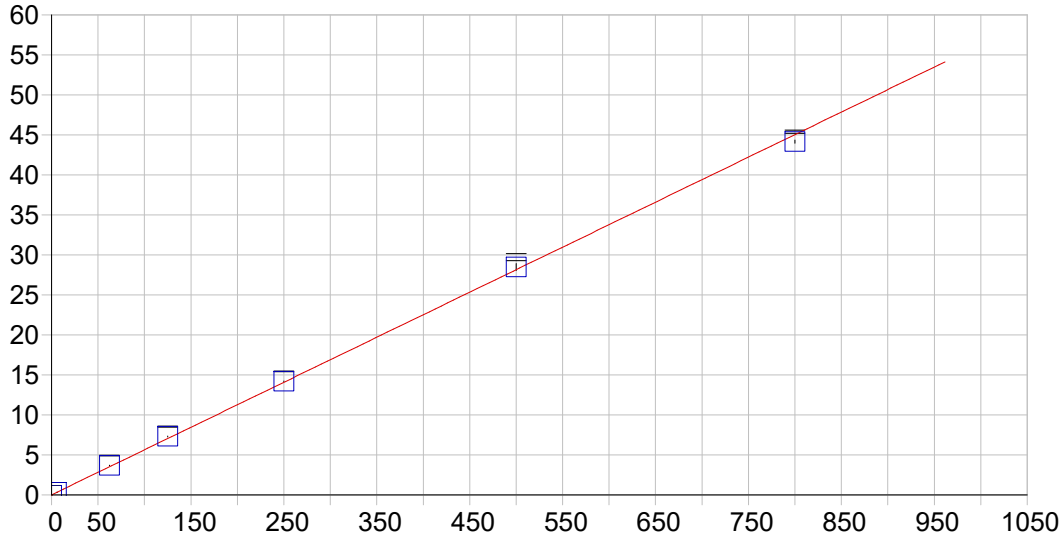
Cd 214.438 {457}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000592	Re-Slope:	1.000000
A1 (Gain):	4.214745	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000153		
Predicted MDL:	0.000111		
Predicted MQL:	0.000371		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00059	.000	1
S1	.00500	.00507	.000	1.48	.02206	.001	1
S2	.62500	.63057	.006	.891	2.6623	.004	1
S3	1.2500	1.2585	.008	.677	5.3128	.005	1
S4	2.5000	2.5035	.003	.139	10.568	.035	1
S5	5.0000	4.9824	-.018	-.352	21.033	.040	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



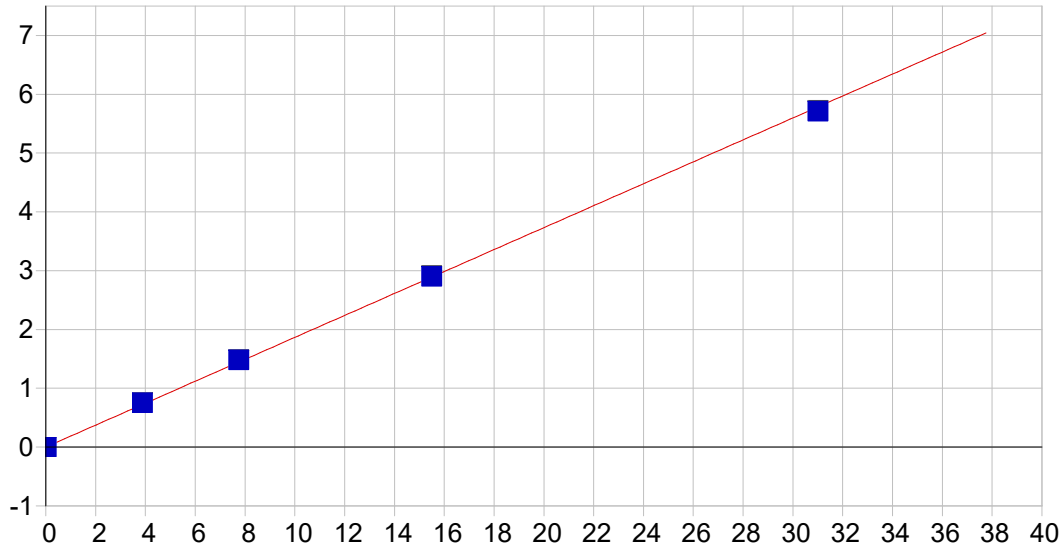
Ca 373.690 { 90}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008380	Re-Slope:	1.000000
A1 (Gain):	0.056286	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999801	Status:	OK.
Std Error of Est:	0.003920		
Predicted MDL:	0.037206		
Predicted MQL:	0.124020		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00070	-.001	.000	.00834	.002	1
S1	5.0000	5.2922	.292	5.84	.30626	.003	1
S2	62.500	65.208	2.71	4.33	3.6787	.028	1
S3	125.00	129.64	4.64	3.72	7.3056	.048	1
S4	250.00	252.27	2.27	.908	14.208	.043	1
S5	500.00	505.64	5.64	1.13	28.469	.432	1
S6	800.00	784.45	-15.6	-1.94	44.162	.209	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



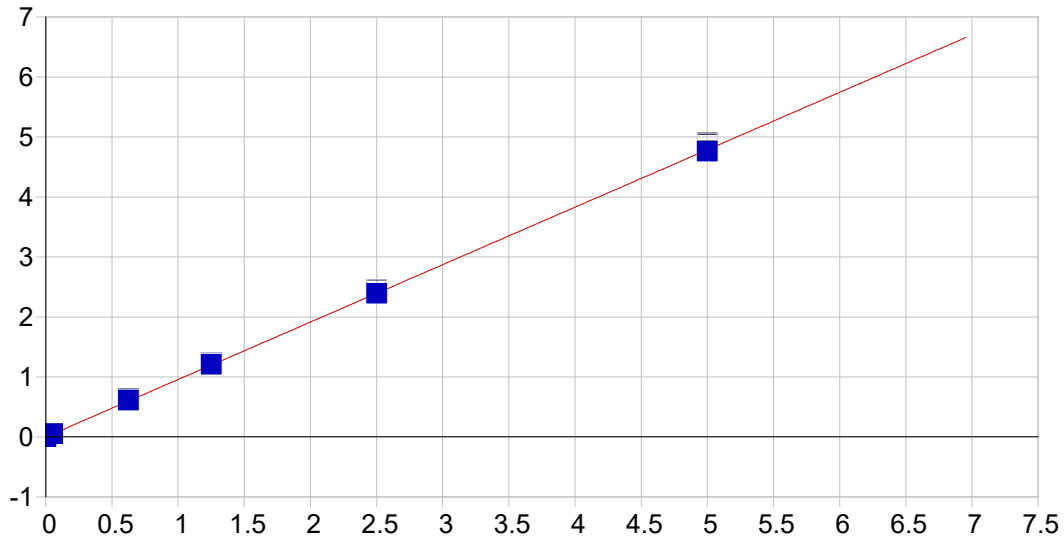
Cr 267.716 {126}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000005	Re-Slope:	1.000000
A1 (Gain):	0.186593	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999870	Status:	OK.
Std Error of Est:	0.000089		
Predicted MDL:	0.001035		
Predicted MQL:	0.003449		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00001	.000	1
S1	.01000	.01055	.001	5.46	.00197	.000	1
S2	3.8750	4.0265	.152	3.91	.75189	.001	1
S3	7.7500	7.9262	.176	2.27	1.4801	.001	1
S4	15.500	15.561	.061	.392	2.9058	.004	1
S5	31.000	30.611	-.389	-1.25	5.7163	.008	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



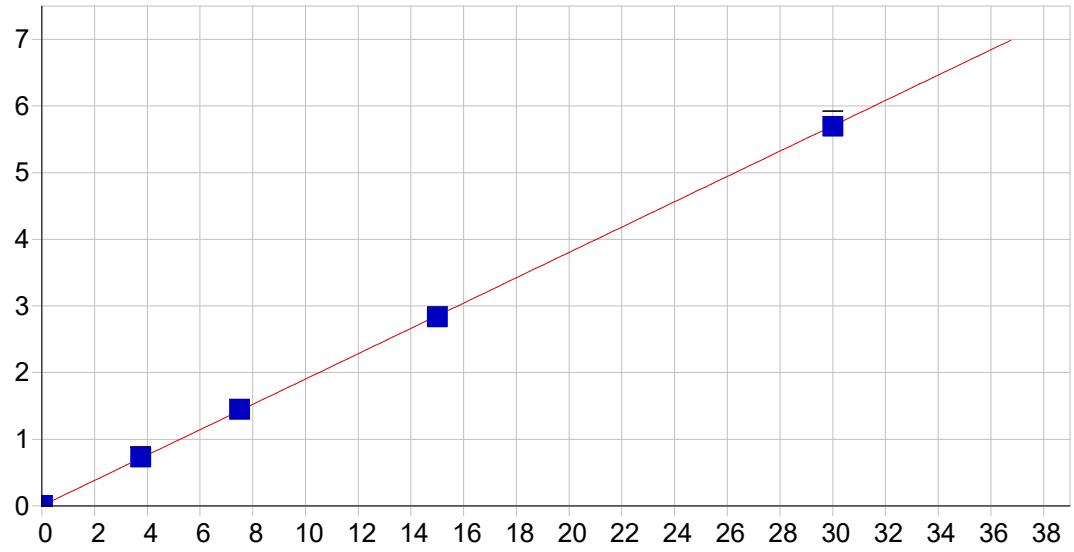
Co 228.616 {448}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000720	Re-Slope:	1.000000
A1 (Gain):	0.957363	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999942	Status:	OK.
Std Error of Est:	0.000282		
Predicted MDL:	0.000491		
Predicted MQL:	0.001638		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00073	.000	1
S1	.05000	.05504	.005	10.1	.05216	.001	1
S2	.62500	.63979	.015	2.37	.62808	.002	1
S3	1.2500	1.2626	.013	1.01	1.2407	.001	1
S4	2.5000	2.4968	-.003	-.128	2.4548	.003	1
S5	5.0000	4.9709	-.029	-.583	4.8885	.009	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



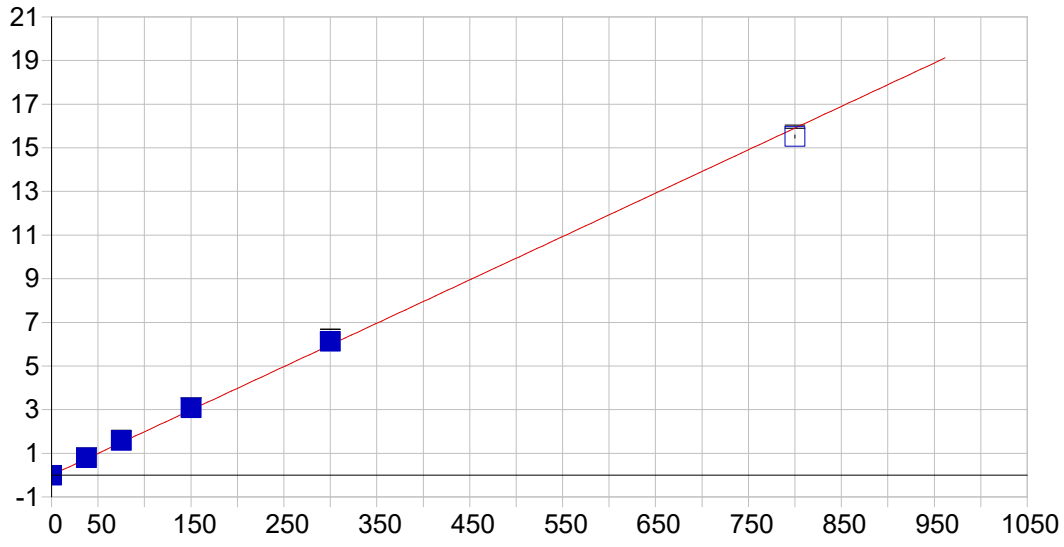
Cu 324.754 {104}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002973	Re-Slope:	1.000000
A1 (Gain):	0.190033	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000073		
Predicted MDL:	0.008266		
Predicted MQL:	0.027555		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00297	.000	1
S1	.02500	.02242	-.003	-10.3	.00723	.002	1
S2	3.7500	3.8248	.075	1.99	.72972	.008	1
S3	7.5000	7.5934	.093	1.24	1.4458	.006	1
S4	15.000	14.882	-.118	-.790	2.8306	.014	1
S5	30.000	29.953	-.047	-.157	5.6944	.081	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



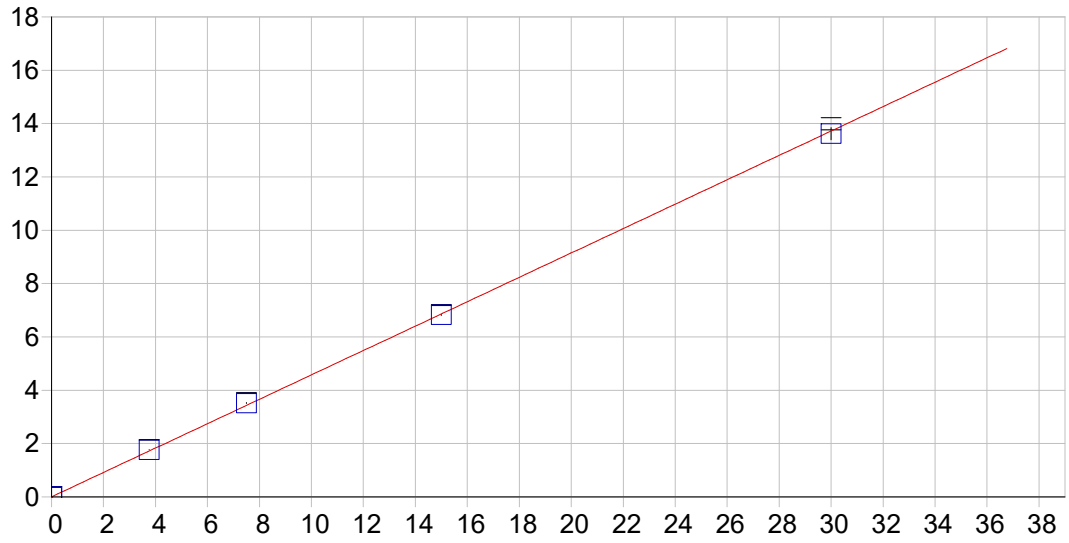
Fe 259.837 {130}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000101	Re-Slope:	1.000000
A1 (Gain):	0.019881	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999525	Status:	OK.
Std Error of Est:	0.000268		
Predicted MDL:	0.038303		
Predicted MQL:	0.127677		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00005	-.000	.000	.00010	.001	1
S1	.10000	.12973	.030	29.7	.00268	.000	1
S2	37.500	40.013	2.51	6.70	.79576	.006	1
S3	75.000	79.490	4.49	5.99	1.5808	.009	1
S4	150.00	154.81	4.81	3.21	3.0786	.008	1
S5	300.00	307.90	7.90	2.63	6.1228	.106	1
S6	800.00	780.25	-19.8	-2.47	15.512	.072	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



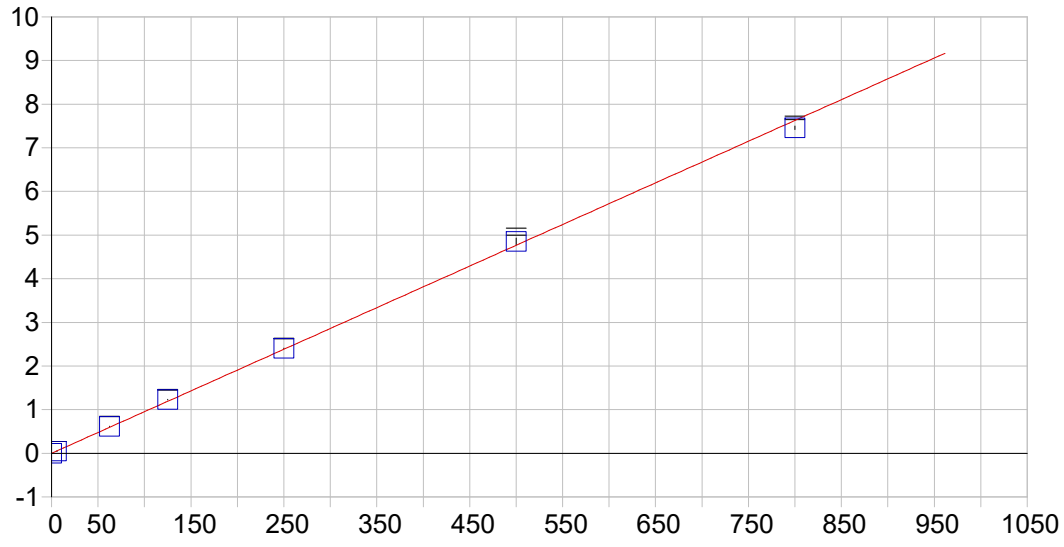
Mn 257.610 {131}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001233	Re-Slope:	1.000000
A1 (Gain):	0.457311	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000222		
Predicted MDL:	0.001458		
Predicted MQL:	0.004860		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00123	.001	1
S1	.01500	.01540	.000	2.69	.00828	.001	1
S2	3.7500	3.8622	.112	2.99	1.7675	.009	1
S3	7.5000	7.6928	.193	2.57	3.5192	.019	1
S4	15.000	14.919	-.081	-.542	6.8237	.016	1
S5	30.000	29.776	-.224	-.747	13.618	.229	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



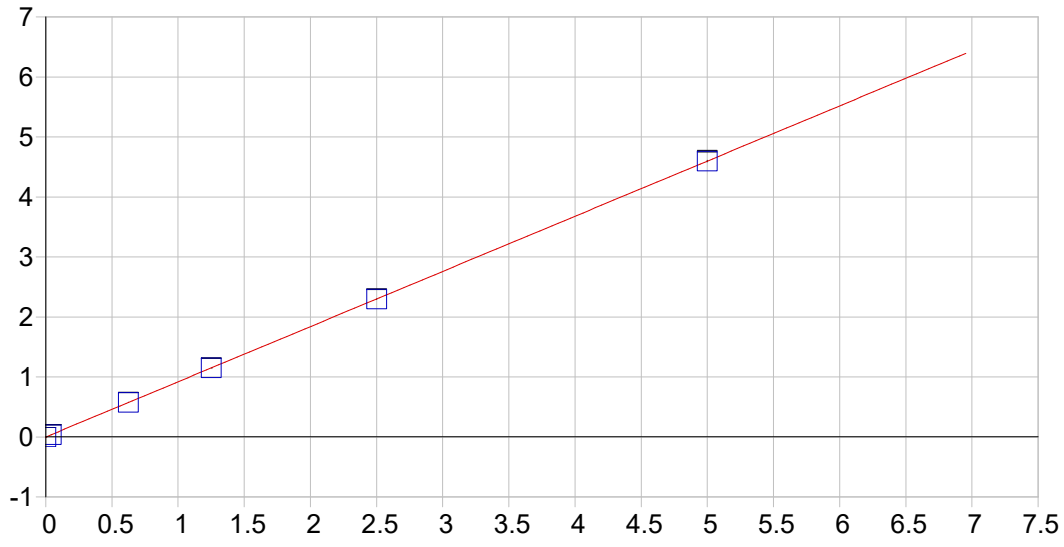
Mg 279.079 {121}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000488	Re-Slope:	1.000000
A1 (Gain):	0.009535	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999770	Status:	OK.
Std Error of Est:	0.000713		
Predicted MDL:	0.100492		
Predicted MQL:	0.334972		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00068	-.001	.000	-.00049	.002	1
S1	5.0000	5.3250	.325	6.50	.05028	.001	1
S2	62.500	64.663	2.16	3.46	.61606	.005	1
S3	125.00	128.96	3.96	3.17	1.2291	.007	1
S4	250.00	252.15	2.15	.860	2.4037	.007	1
S5	500.00	509.14	9.14	1.83	4.8540	.082	1
S6	800.00	782.26	-17.7	-2.22	7.4582	.042	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



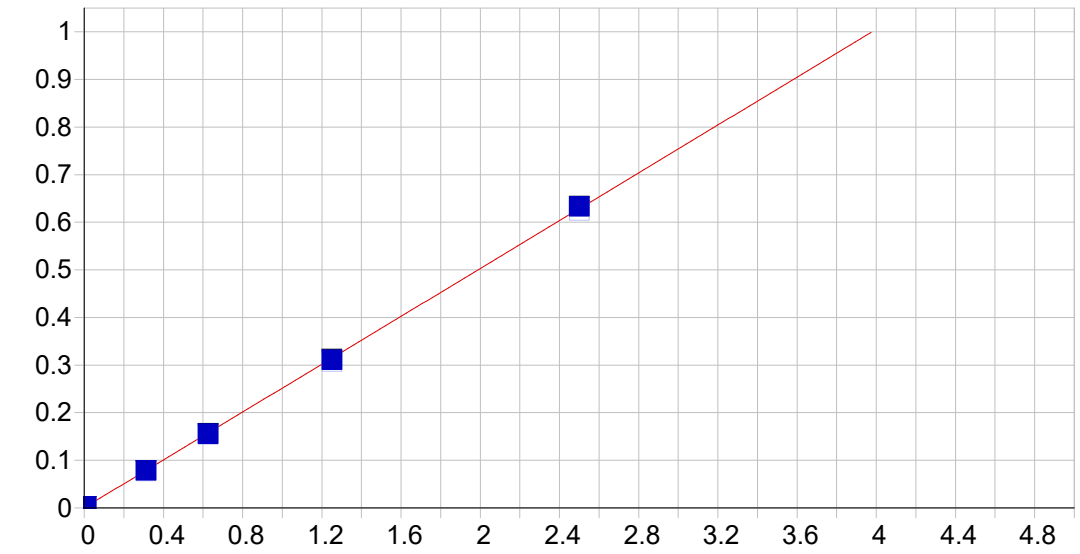
Ni 231.604 {446}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000531	Re-Slope:	1.000000
A1 (Gain):	0.919575	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999999	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.000616		
Predicted MQL:	0.002054		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00053	.000	1
S1	.04000	.04094	.001	2.35	.03712	.000	1
S2	.62500	.62509	.000	.015	.57429	.002	1
S3	1.2500	1.2509	.001	.073	1.1498	.001	1
S4	2.5000	2.4992	-.001	-.033	2.2976	.006	1
S5	5.0000	4.9989	-.001	-.022	4.5963	.012	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



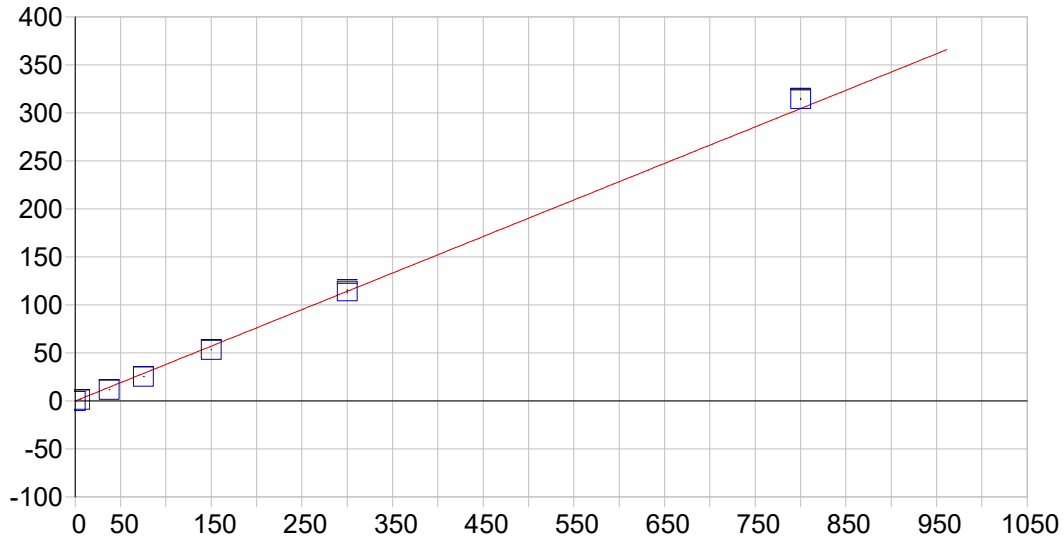
Ag 328.068 {103}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000486	Re-Slope:	1.000000
A1 (Gain):	0.251214	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.001441		
Predicted MQL:	0.004805		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00049	.000	1
S1	.01000	.00997	-.000	-.271	.00299	.000	1
S2	.31250	.30992	-.003	-.827	.07721	.000	1
S3	.62500	.61969	-.005	-.849	.15390	.000	1
S4	1.2500	1.2382	-.012	-.942	.30702	.001	1
S5	2.5000	2.5197	.020	.788	.62443	.001	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



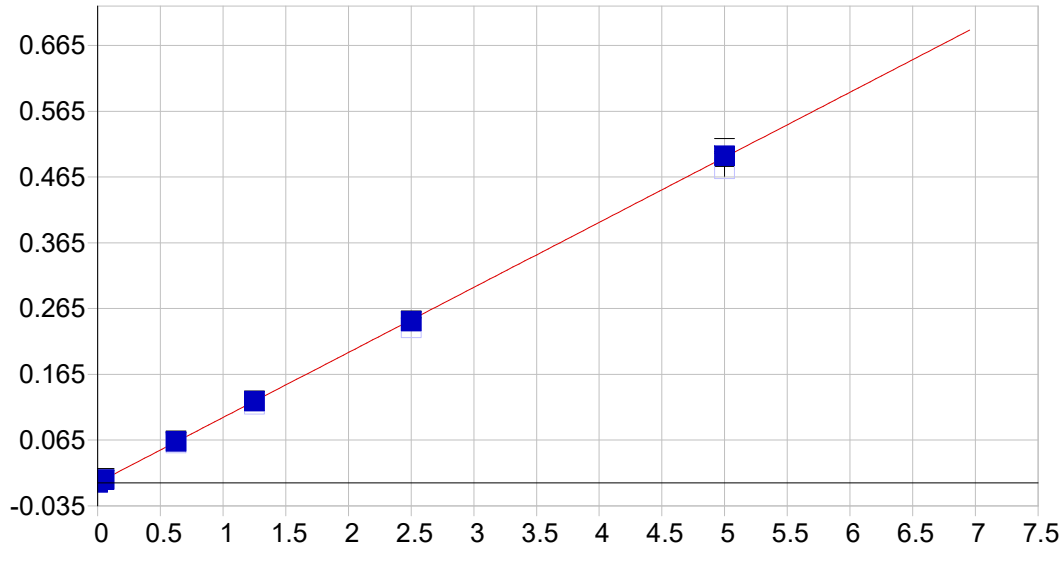
Na 818.326 { 41}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.023855	Re-Slope:	1.000000
A1 (Gain):	0.380679	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998474	Status:	OK.
Std Error of Est:	0.065106		
Predicted MDL:	0.027301		
Predicted MQL:	0.091005		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00309	.003	.000	-.02268	.010	1
S1	5.0000	3.5590	-1.44	-28.8	1.3310	.020	1
S2	37.500	30.514	-6.99	-18.6	11.592	.019	1
S3	75.000	66.613	-8.39	-11.2	25.334	.137	1
S4	150.00	140.14	-9.86	-6.57	53.326	.332	1
S5	300.00	300.14	.145	.048	114.23	1.74	1
S6	800.00	826.53	26.5	3.32	314.62	.793	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



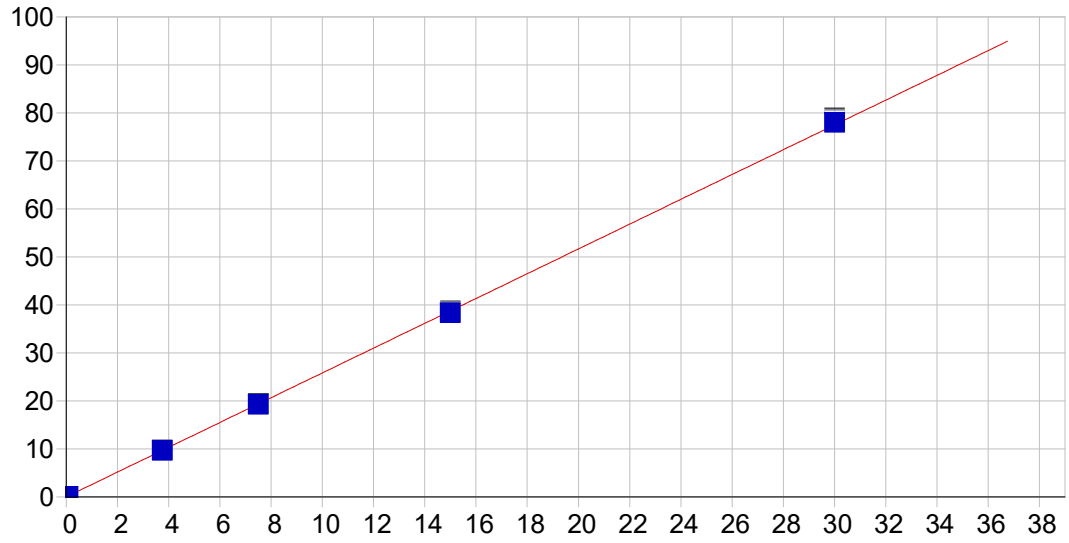
V 292.402 {115}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000489	Re-Slope:	1.000000
A1 (Gain):	0.098915	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.011745		
Predicted MQL:	0.039149		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00049	.001	1
S1	.05000	.04663	-.003	-6.74	.00509	.001	1
S2	.62500	.62958	.005	.734	.06029	.001	1
S3	1.2500	1.2483	-.002	-.135	.11901	.000	1
S4	2.5000	2.4773	-.023	-.908	.23562	.001	1
S5	5.0000	5.0233	.023	.466	.47755	.011	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



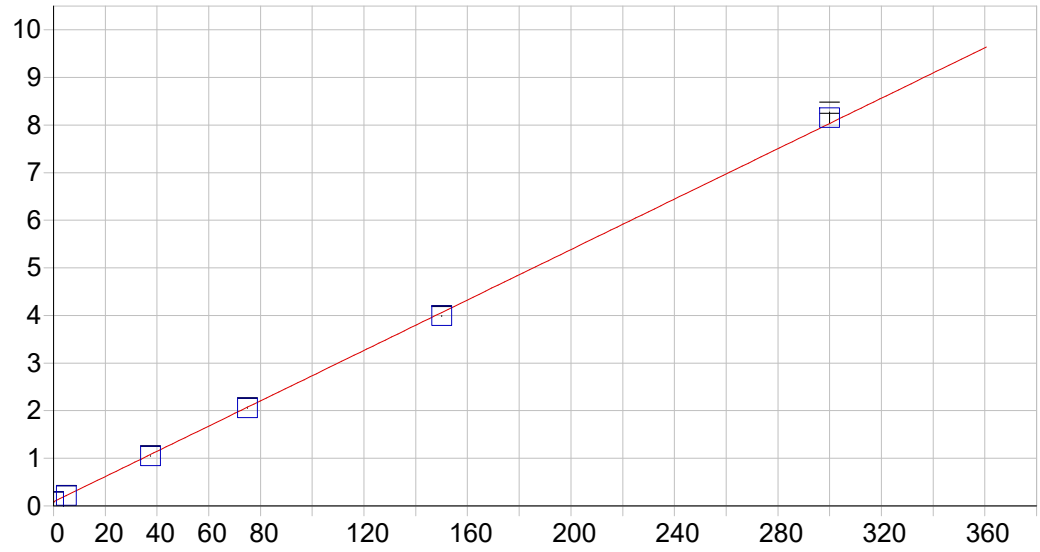
Zn 213.856 {158}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008135	Re-Slope:	1.000000
A1 (Gain):	2.582716	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.001444		
Predicted MDL:	0.000617		
Predicted MQL:	0.002058		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00813	.000	1
S1	.06000	.06267	.003	4.45	.17048	.002	1
S2	3.7500	3.7416	-.008	-.225	9.7189	.047	1
S3	7.5000	7.4577	-.042	-.564	19.364	.097	1
S4	15.000	14.841	-.159	-1.06	38.529	.172	1
S5	30.000	30.207	.207	.689	78.403	.507	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



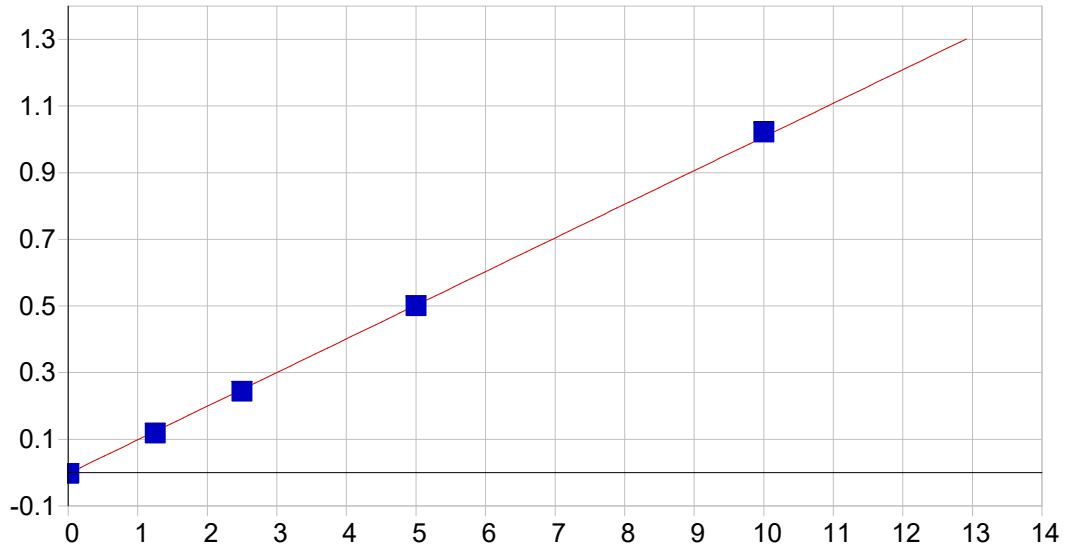
K 769.896 { 44}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.087242	Re-Slope:	1.000000
A1 (Gain):	0.026489	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999856	Status:	OK.
Std Error of Est:	0.000927		
Predicted MDL:	0.157273		
Predicted MQL:	0.524243		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00034	.000	.000	.08725	.001	1
S1	5.0000	4.8669	-.133	-2.66	.21616	.004	1
S2	37.500	36.366	-1.13	-3.02	1.0505	.006	1
S3	75.000	74.298	-.702	-.935	2.0553	.007	1
S4	150.00	147.33	-2.67	-1.78	3.9899	.008	1
S5	300.00	304.64	4.64	1.55	8.1567	.119	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



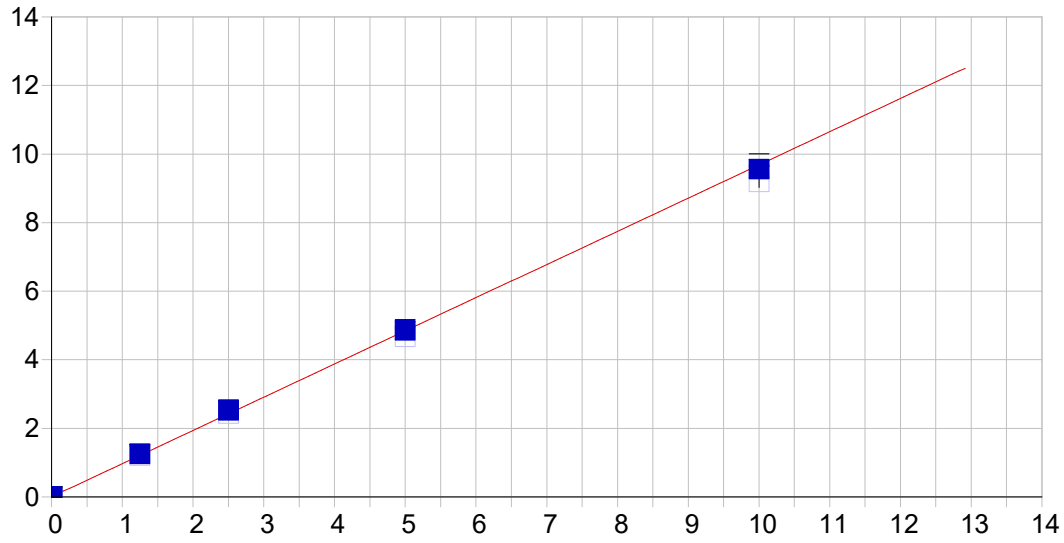
P 177.495 {490}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002756	Re-Slope:	1.000000
A1 (Gain):	0.100987	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999822	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.002776		
Predicted MQL:	0.009254		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00276	.000	1
S1	.01000	.00780	-.002	-22.0	-.00196	.000	1
S2	1.2500	1.1938	-.056	-4.50	.11762	.000	1
S3	2.5000	2.4387	-.061	-2.45	.24316	.001	1
S4	5.0000	4.9766	-.023	-.467	.49909	.002	1
S5	10.000	10.143	.143	1.43	1.0201	.002	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



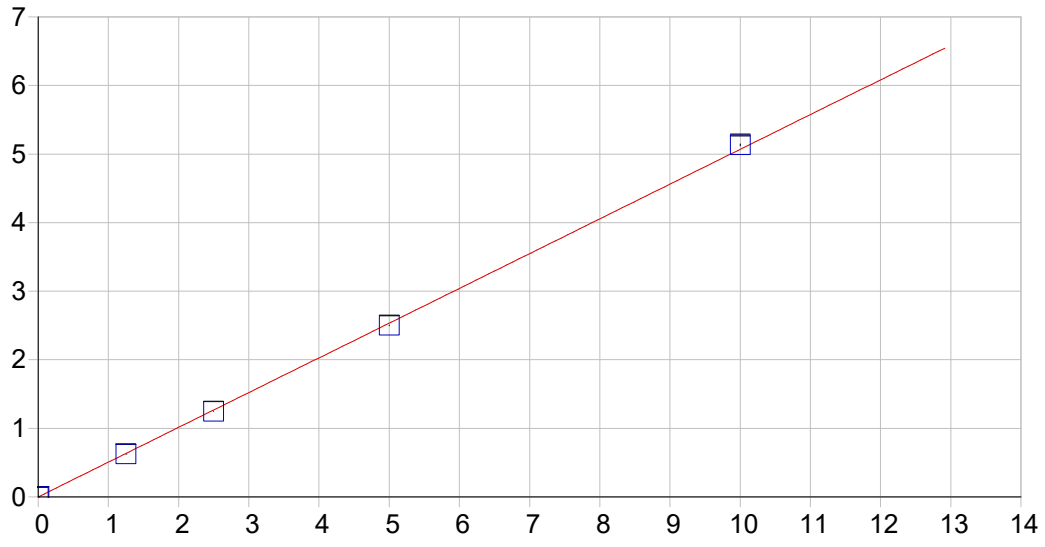
B 249.678 {135}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005014	Re-Slope:	1.000000
A1 (Gain):	0.967752	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999470	Status:	OK.
Std Error of Est:	0.000509		
Predicted MDL:	0.002022		
Predicted MQL:	0.006740		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00502	.002	1
S1	.01000	-.00078	-.011	-108.	.00421	.001	1
S2	1.2500	1.2832	.033	2.66	1.2008	.005	1
S3	2.5000	2.6021	.102	4.08	2.4312	.018	1
S4	5.0000	5.0077	.008	.154	4.6672	.027	1
S5	10.000	9.8681	-.132	-1.32	9.1869	.162	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



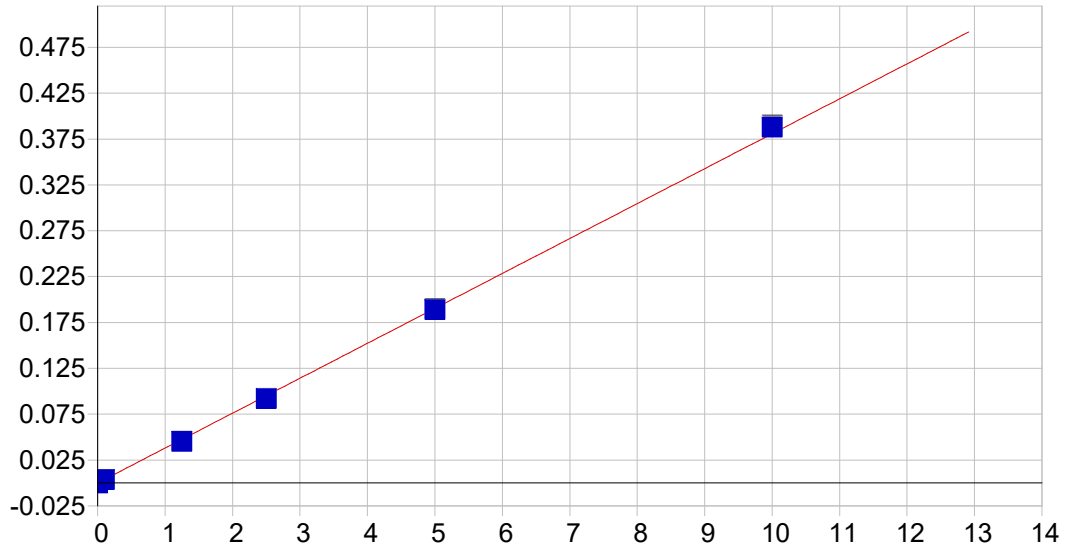
Mo 202.030 {467}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000168	Re-Slope:	1.000000
A1 (Gain):	0.506802	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.000637		
Predicted MQL:	0.002125		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00017	.000	1
S1	.01000	.01068	.001	6.75	.00558	.000	1
S2	1.2500	1.2314	-.019	-1.49	.62425	.001	1
S3	2.5000	2.4603	-.040	-1.59	1.2470	.002	1
S4	5.0000	4.9314	-.069	-1.37	2.4994	.005	1
S5	10.000	10.126	.126	1.26	5.1322	.013	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



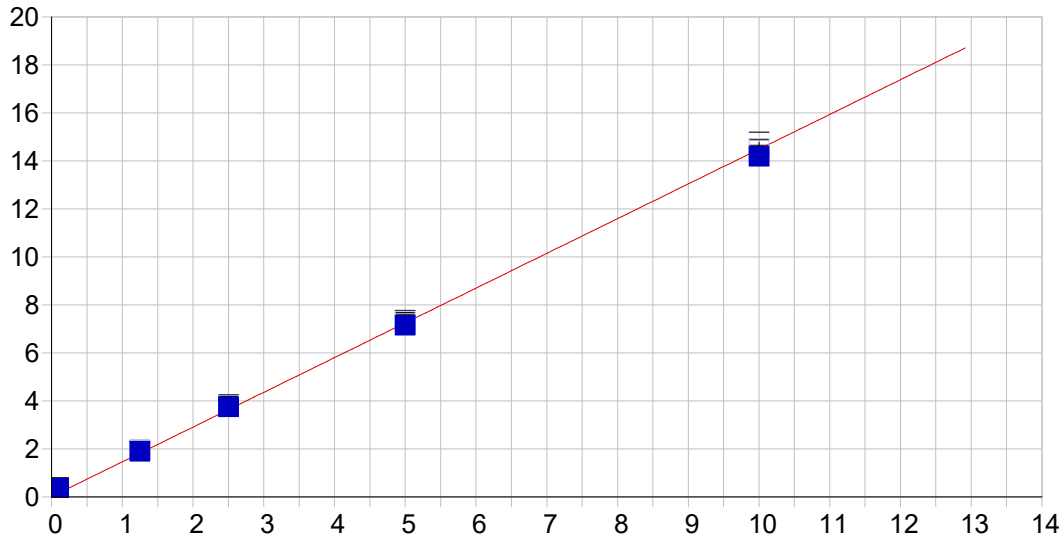
S 182.034 {485}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000074	Re-Slope:	1.000000
A1 (Gain):	0.038087	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999741	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.006109		
Predicted MQL:	0.020363		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00007	.000	1
S1	.10000	.09805	-.002	-1.95	.00366	.000	1
S2	1.2500	1.1884	-.062	-4.93	.04534	.000	1
S3	2.5000	2.4145	-.086	-3.42	.09219	.000	1
S4	5.0000	4.9614	-.039	-.771	.18950	.000	1
S5	10.000	10.188	.188	1.88	.38916	.001	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



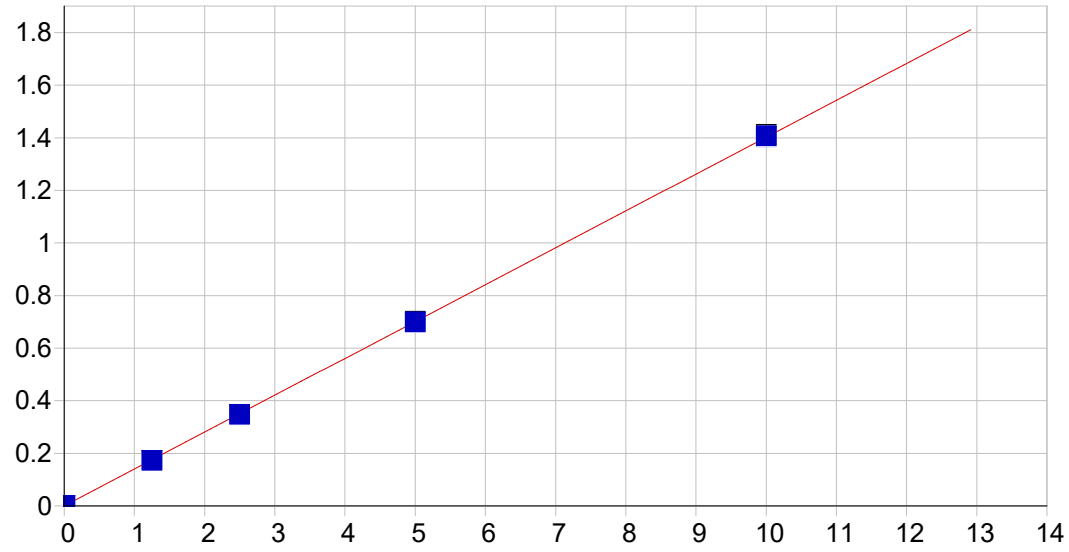
Si 251.611 {134}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014545	Re-Slope:	1.000000
A1 (Gain):	1.447384	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.994149	Status:	OK.
Std Error of Est:	0.008546		
Predicted MDL:	0.001317		
Predicted MQL:	0.004390		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.01432	.003	1
S1	.10000	.24922	.149	149.	.37731	.004	1
S2	1.2500	1.2982	.048	3.86	1.9346	.008	1
S3	2.5000	2.5812	.081	3.25	3.8326	.027	1
S4	5.0000	4.9311	-.069	-1.38	7.3160	.046	1
S5	10.000	9.7915	-.208	-2.08	14.515	.275	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



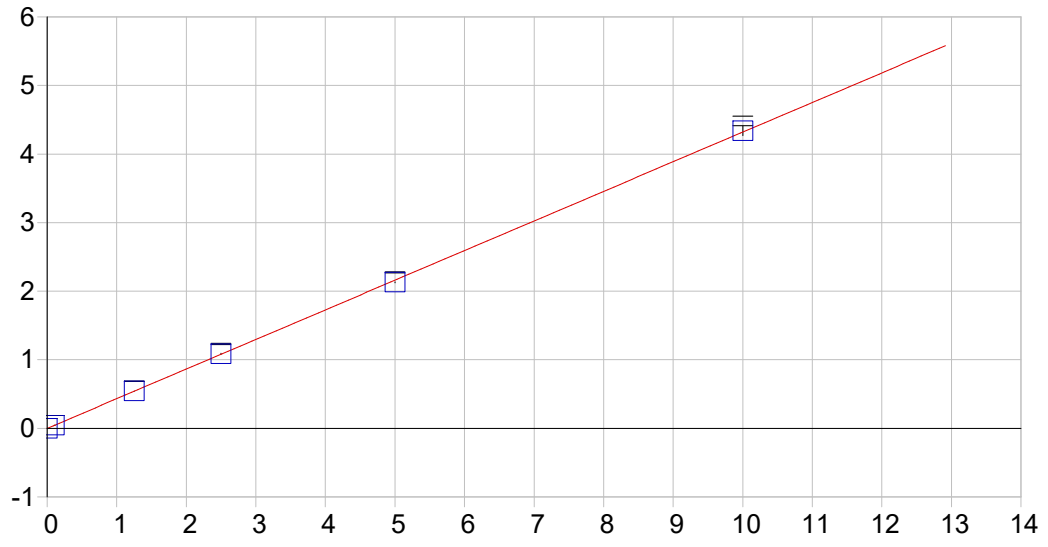
Sn 189.989 {478}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000291	Re-Slope:	1.000000
A1 (Gain):	0.140174	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.001630		
Predicted MQL:	0.005434		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00029	.000	1
S1	.00700	.00763	.001	8.98	.00132	.000	1
S2	1.2500	1.2303	-.020	-1.58	.17186	.000	1
S3	2.5000	2.4796	-.020	-.818	.34611	.001	1
S4	5.0000	4.9930	-.007	-.141	.69667	.002	1
S5	10.000	10.047	.047	.466	1.4015	.004	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



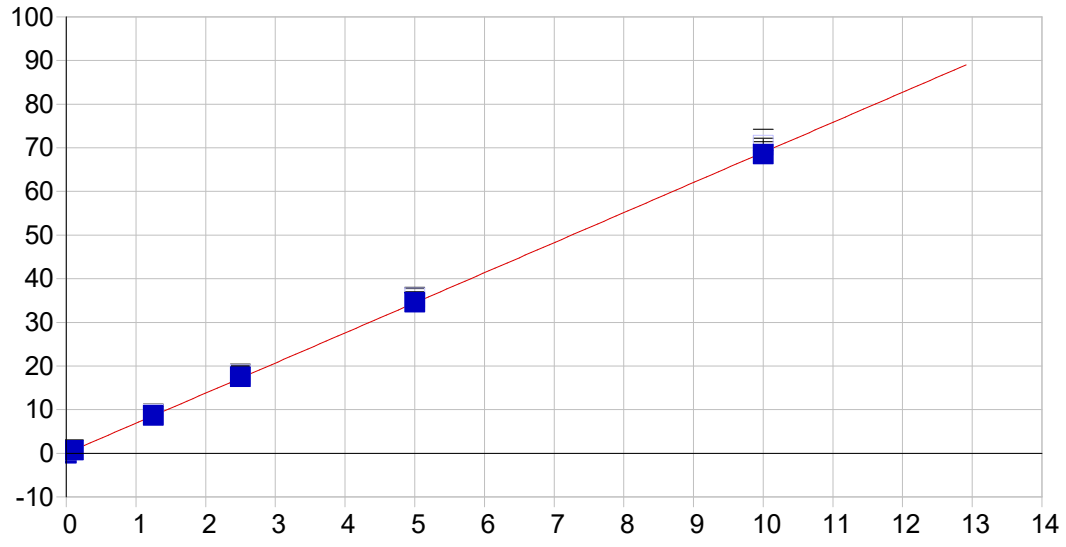
Ti 336.121 {100}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000132	Re-Slope:	1.000000
A1 (Gain):	0.431982	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000212		
Predicted MDL:	0.004090		
Predicted MQL:	0.013635		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00013	.001	1
S1	.10000	.10607	.006	6.07	.04595	.000	1
S2	1.2500	1.2553	.005	.427	.54241	.002	1
S3	2.5000	2.5144	.014	.576	1.0863	.008	1
S4	5.0000	4.9312	-.069	-1.38	2.1303	.007	1
S5	10.000	10.043	.043	.430	4.3385	.071	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5



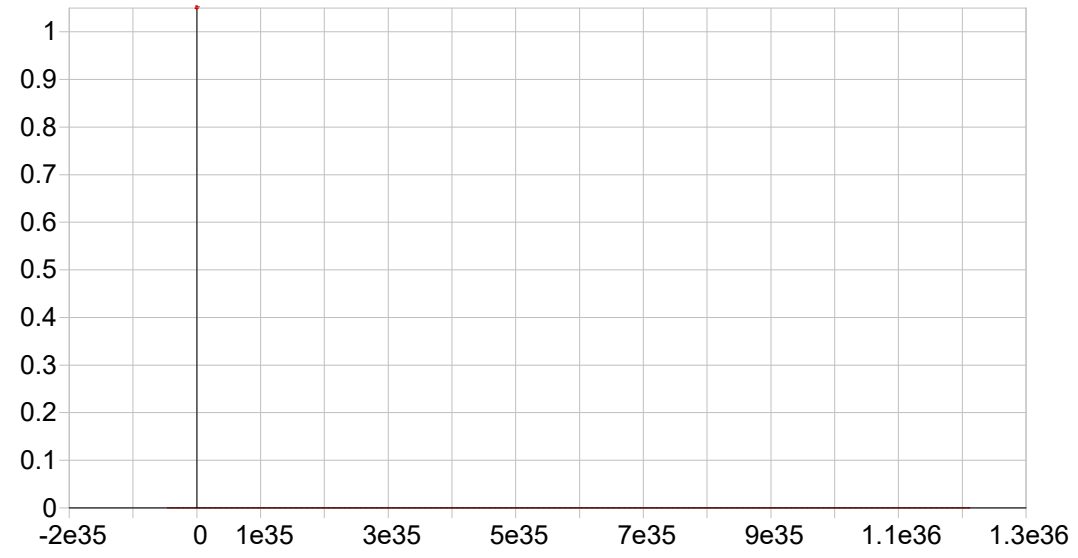
Sr 407.771 { 83}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002286	Re-Slope:	1.000000
A1 (Gain):	6.894000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.003216		
Predicted MDL:	0.000321		
Predicted MQL:	0.001071		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00235	.003	1
S1	.10000	.10706	.007	7.06	.73647	.007	1
S2	1.2500	1.2565	.006	.518	8.9184	.082	1
S3	2.5000	2.5355	.036	1.42	17.995	.135	1
S4	5.0000	5.0130	.013	.259	35.591	.156	1
S5	10.000	9.9382	-.062	-.618	70.580	1.44	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

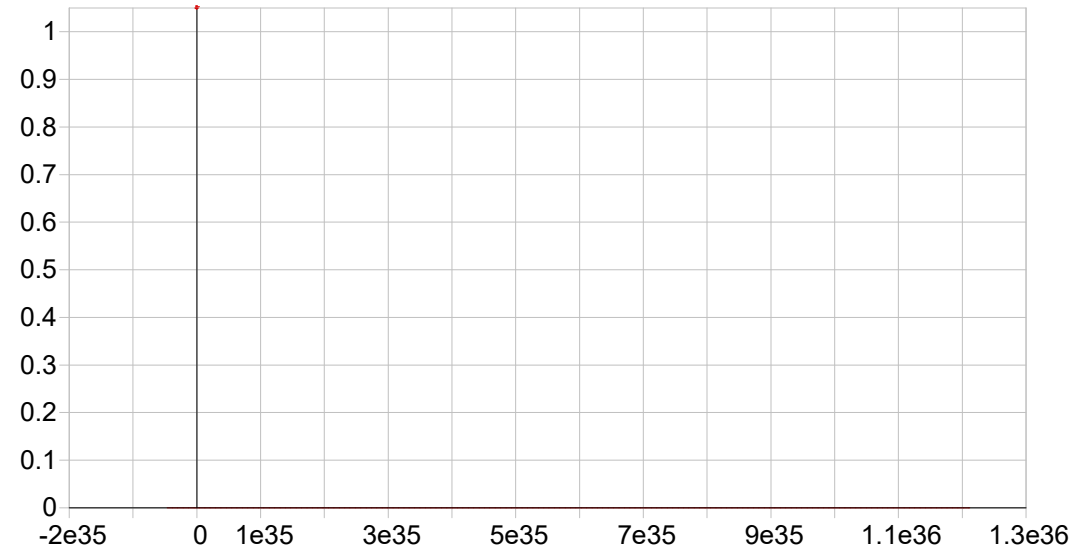


Y 224.306 {450}*

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}*

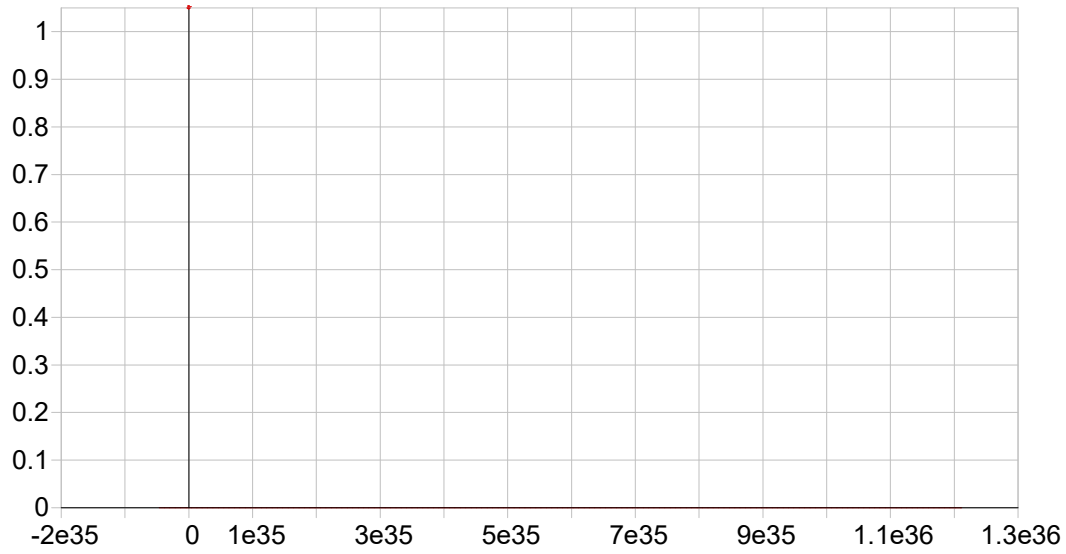
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
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:mohan
On:12/31/2024
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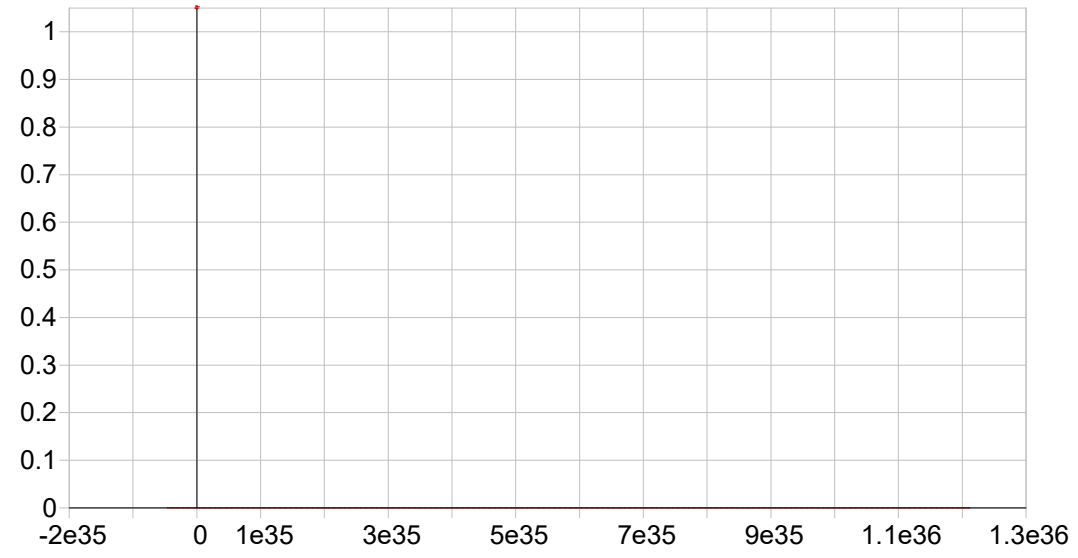
Inst Id :P5

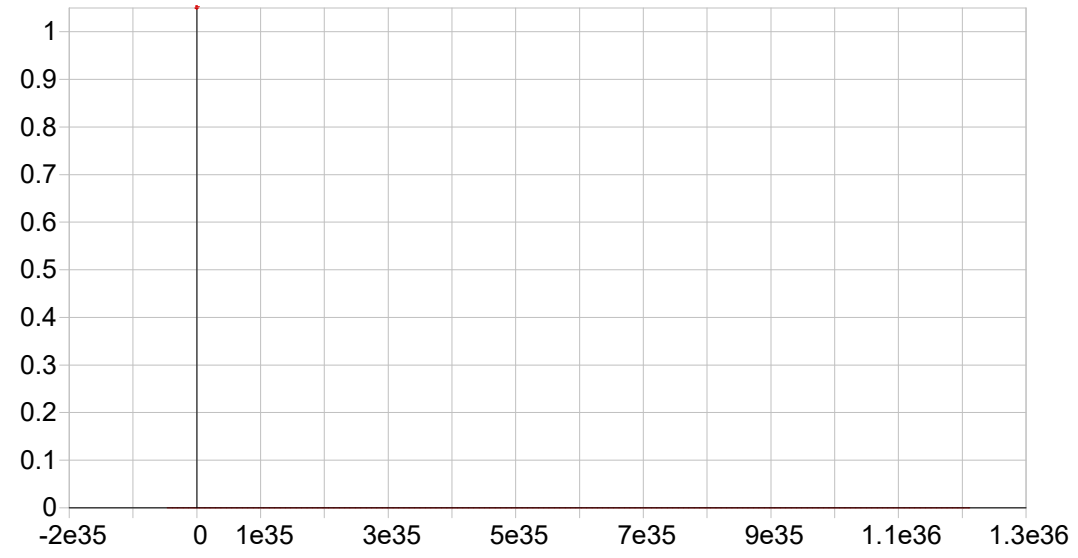


Y 224.306 {150}*

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:mohan
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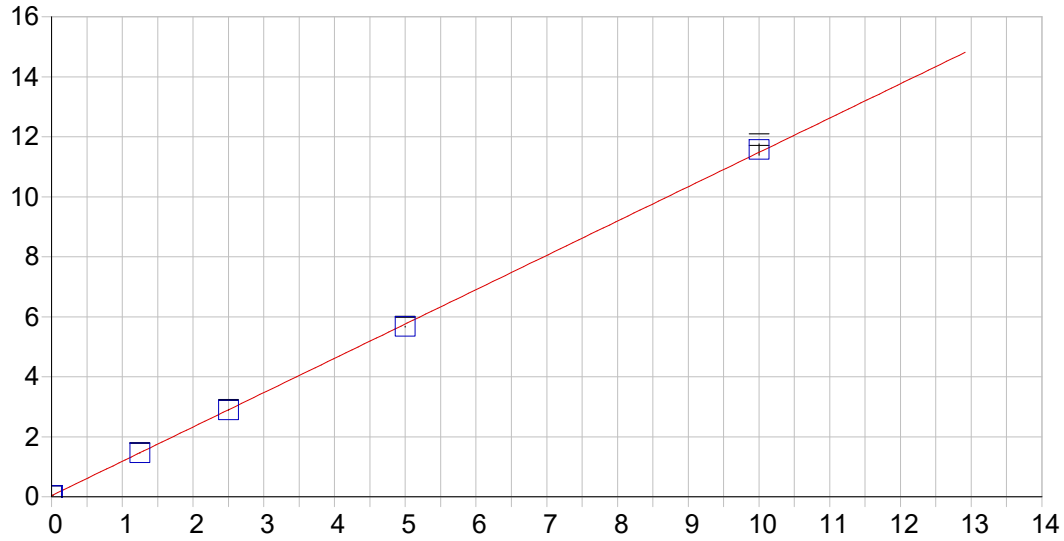
Inst Id :P5

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



Li 670.784 { 50}

Date of Fit:	12/29/2024 23:24:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.037148	Re-Slope:	1.000000
A1 (Gain):	1.144100	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000242		
Predicted MDL:	0.004104		
Predicted MQL:	0.013680		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.03715	.005	1
S5	10.000	10.086	.086	.861	11.577	.190	1
S4	5.0000	4.9234	-.077	-1.53	5.6700	.014	1
S3	2.5000	2.4978	-.002	-.088	2.8949	.017	1
S2	1.2500	1.2434	-.007	-.526	1.4597	.011	1
S1	.01500	.01428	-.001	-4.79	.05349	.002	1

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/29/2024 1:11:54 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	.44832	-.00039	.00090	.00008	.00000	-.00199	.05848	.00223
Stddev	.50001	.00014	.00015	.00014	.00002	.00313	.00317	.00180
%RSD	111.53	35.531	16.163	165.96	544.62	156.91	5.4269	80.801
#1	1.0256	-.00035	.00084	.00002	.00000	-.00258	.05913	.00126
#2	.15210	-.00054	.00079	-.00001	-.00002	-.00479	.05503	.00430
#3	.16725	-.00028	.00107	.00024	.00003	.00139	.06127	.00112

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	.00059	.00834	.00001	-.00073	.00297	.00010	.00123	-.00049
Stddev	.00019	.00215	.00003	.00015	.00042	.00068	.00057	.00165
%RSD	32.555	25.814	558.73	21.161	14.280	683.53	46.565	333.08
#1	.00062	.00888	-.00002	-.00068	.00319	.00087	.00067	.00139
#2	.00076	.00597	.00003	-.00060	.00325	-.00045	.00120	-.00163
#3	.00038	.01017	.00001	-.00090	.00248	-.00012	.00182	-.00125

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	-.00053	.00049	-.02268	.00049	.00813	.08725	-.00276	.00502
Stddev	.00037	.00015	.00998	.00065	.00018	.00087	.00027	.00249
%RSD	69.334	31.123	44.016	133.42	2.1644	.99502	9.9426	49.654
#1	-.00070	.00031	-.03362	.00096	.00794	.08770	-.00247	.00217
#2	-.00011	.00059	-.02034	.00077	.00815	.08780	-.00278	.00676
#3	-.00079	.00056	-.01407	-.00026	.00829	.08625	-.00302	.00615

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00017	-.00007	.01432	.00029	.00013	-.00235	.03715
Stddev	.00011	.00028	.00311	.00020	.00137	.00289	.00493
%RSD	63.236	376.99	21.679	68.952	1057.6	123.16	13.283
#1	.00016	-.00001	.01350	.00051	-.00071	.00097	.03372
#2	.00007	-.00038	.01776	.00012	-.00061	-.00367	.03492
#3	.00028	.00017	.01171	.00024	.00171	-.00433	.04280

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S0 Acquired: 12/29/2024 1:11:54 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	2045.6	25678.	1942.2	1298.6	1850.2
Stddev	5.5	195.	5.5	9.0	4.4
%RSD	.26710	.75996	.28553	.68971	.24028
#1	2039.6	25475.	1935.9	1289.3	1845.2
#2	2050.3	25864.	1946.4	1307.2	1853.4
#3	2046.9	25696.	1944.3	1299.3	1852.2

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S1 Acquired: 12/29/2024 1:16:00 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	1.5442	.00174	.00425	.00202	.00572	.02223	.99502	.05534
Stddev	.1633	.00044	.00038	.00038	.00036	.00074	.00724	.00257
%RSD	10.577	25.492	8.8234	19.040	6.3508	3.3175	.72754	4.6390
#1	1.4409	.00123	.00441	.00180	.00560	.02255	.99074	.05405
#2	1.7325	.00199	.00452	.00246	.00543	.02138	1.0034	.05830
#3	1.4592	.00200	.00382	.00180	.00612	.02275	.99094	.05368

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	.02206	.30626	.00197	.05216	.00723	.00268	.00828	.05028
Stddev	.00050	.00274	.00012	.00059	.00207	.00024	.00059	.00085
%RSD	2.2809	.89368	5.9792	1.1283	28.694	8.9452	7.0907	1.6872
#1	.02152	.30471	.00199	.05220	.00721	.00278	.00888	.05081
#2	.02251	.30942	.00209	.05156	.00516	.00241	.00824	.05074
#3	.02214	.30465	.00185	.05273	.00931	.00286	.00771	.04931

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	.03712	.00299	1.3310	.00509	.17048	.21616	-.00196	.00421
Stddev	.00032	.00014	.0196	.00134	.00157	.00357	.00049	.00065
%RSD	.87299	4.7825	1.4692	26.418	.92381	1.6518	24.692	15.347
#1	.03748	.00306	1.3119	.00373	.16975	.21222	-.00201	.00362
#2	.03687	.00282	1.3510	.00513	.16940	.21708	-.00243	.00412
#3	.03700	.00308	1.3300	.00641	.17228	.21918	-.00146	.00490

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00558	.00366	.37731	.00132	.04595	.73647	.05349
Stddev	.00041	.00016	.00368	.00012	.00006	.00701	.00205
%RSD	7.3530	4.4741	.97444	9.3576	.12622	.95184	3.8374
#1	.00576	.00384	.37546	.00130	.04602	.73104	.05123
#2	.00511	.00362	.38155	.00121	.04594	.74438	.05400
#3	.00587	.00352	.37493	.00145	.04590	.73398	.05523

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: S1 Acquired: 12/29/2024 1:16:00 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	2044.3	25511.	1957.2	1300.8	1854.6
Stddev	5.5	58.	24.2	8.4	3.4
%RSD	.27134	.22724	1.2343	.64574	.18103
#1	2038.9	25531.	1979.4	1308.8	1851.9
#2	2050.0	25556.	1931.5	1301.6	1858.3
#3	2044.0	25445.	1960.7	1292.0	1853.5

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: S2 Acquired: 12/29/2024 1:20:07 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	158.23	.10074	2.1474	.08378	.12856	4.6851	11.361	1.3114
Stddev	.51	.00028	.0046	.00056	.00017	.0237	.096	.0054
%RSD	.32399	.27596	.21183	.67039	.12903	.50523	.84786	.41070
#1	158.25	.10090	2.1483	.08330	.12875	4.7123	11.451	1.3110
#2	158.74	.10042	2.1424	.08365	.12847	4.6689	11.373	1.3169
#3	157.71	.10090	2.1514	.08439	.12846	4.6741	11.259	1.3062

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	2.6623	3.6787	.75189	.62808	.72972	.79576	1.7675	.61606
Stddev	.0041	.0284	.00057	.00164	.00762	.00597	.0090	.00496
%RSD	.15362	.77098	.07622	.26151	1.0445	.75031	.50731	.80448
#1	2.6649	3.7063	.75153	.62774	.73804	.80182	1.7758	.62029
#2	2.6576	3.6803	.75255	.62664	.72807	.79557	1.7686	.61728
#3	2.6645	3.6496	.75158	.62987	.72306	.78989	1.7580	.61061

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	.57429	.07721	11.592	.06029	9.7189	1.0505	.11762	1.2008
Stddev	.00211	.00019	.019	.00083	.0468	.0065	.00017	.0047
%RSD	.36827	.24261	.16482	1.3783	.48099	.61785	.14829	.39391
#1	.57601	.07735	11.581	.06118	9.7710	1.0563	.11771	1.1997
#2	.57193	.07700	11.614	.06014	9.6805	1.0518	.11742	1.2060
#3	.57493	.07728	11.581	.05954	9.7052	1.0435	.11772	1.1968

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.62425	.04534	1.9346	.17186	.54241	8.9184	1.4597
Stddev	.00082	.00010	.0078	.00021	.00245	.0821	.0113
%RSD	.13183	.22218	.40114	.12156	.45156	.92077	.77339
#1	.62341	.04524	1.9383	.17200	.54517	9.0111	1.4699
#2	.62506	.04535	1.9399	.17162	.54158	8.8891	1.4617
#3	.62428	.04544	1.9257	.17196	.54049	8.8550	1.4476

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S2 Acquired: 12/29/2024 1:20:07 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	2032.2	25754.	2001.1	1296.0	1765.5
Stddev	1.0	160.	14.6	10.9	3.1
%RSD	.04798	.62193	.73163	.83722	.17780
#1	2032.3	25573.	1984.7	1283.8	1765.7
#2	2031.2	25877.	2006.0	1304.6	1768.5
#3	2033.1	25812.	2012.7	1299.7	1762.2

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/29/2024 1:23:57 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	308.95	.20041	4.2830	.16772	.25755	9.3984	22.768	2.6222
Stddev	1.13	.00100	.0028	.00056	.00109	.0365	.118	.0177
%RSD	.36566	.50111	.06462	.33259	.42359	.38881	.51611	.67447
#1	308.37	.20139	4.2802	.16710	.25874	9.4168	22.862	2.6408
#2	310.25	.20046	4.2831	.16819	.25730	9.4220	22.804	2.6056
#3	308.22	.19938	4.2857	.16786	.25660	9.3563	22.636	2.6201

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	5.3128	7.3056	1.4801	1.2407	1.4458	1.5808	3.5192	1.2291
Stddev	.0053	.0484	.0011	.0011	.0061	.0091	.0186	.0075
%RSD	.09944	.66308	.07323	.08555	.42203	.57539	.52735	.60777
#1	5.3067	7.3543	1.4814	1.2395	1.4516	1.5862	3.5363	1.2360
#2	5.3162	7.3049	1.4796	1.2408	1.4463	1.5858	3.5219	1.2302
#3	5.3155	7.2575	1.4794	1.2416	1.4395	1.5703	3.4995	1.2211

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	1.1498	.15390	25.334	.11901	19.364	2.0553	.24316	2.4312
Stddev	.0013	.00039	.137	.00040	.097	.0067	.00053	.0175
%RSD	.10861	.25460	.54200	.33952	.50001	.32545	.21917	.72161
#1	1.1488	.15348	25.491	.11926	19.375	2.0630	.24356	2.4494
#2	1.1512	.15425	25.275	.11923	19.455	2.0525	.24336	2.4143
#3	1.1494	.15397	25.237	.11854	19.262	2.0505	.24255	2.4300

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2470	.09219	3.8326	.34611	1.0863	17.995	2.8949
Stddev	.0020	.00009	.0271	.00053	.0084	.135	.0173
%RSD	.16123	.09961	.70750	.15436	.77365	.75115	.59912
#1	1.2461	.09210	3.8618	.34549	1.0915	18.129	2.9060
#2	1.2493	.09229	3.8081	.34639	1.0908	17.997	2.9038
#3	1.2457	.09219	3.8280	.34644	1.0766	17.858	2.8749

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S3 Acquired: 12/29/2024 1:23:57 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	1970.5	25133.	1947.7	1248.5	1688.6
Stddev	3.5	70.	7.8	5.8	2.9
%RSD	.17881	.27917	.40040	.46519	.17079
#1	1966.4	25208.	1939.2	1250.4	1685.4
#2	1972.7	25069.	1954.4	1241.9	1690.9
#3	1972.3	25122.	1949.6	1253.0	1689.6

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/29/2024 1:27:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	598.23	.39618	8.6240	.33270	.52060	18.557	44.749	5.0470
Stddev	1.61	.00126	.0198	.00082	.00138	.062	.142	.0424
%RSD	.26916	.31740	.22972	.24537	.26491	.33585	.31798	.83944
#1	597.10	.39521	8.6011	.33211	.51931	18.624	44.898	5.0919
#2	597.51	.39572	8.6360	.33235	.52044	18.548	44.734	5.0412
#3	600.07	.39760	8.6349	.33363	.52205	18.500	44.615	5.0078

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	10.568	14.208	2.9058	2.4548	2.8306	3.0786	6.8237	2.4037
Stddev	.035	.043	.0042	.0030	.0138	.0083	.0155	.0070
%RSD	.33319	.30504	.14585	.12249	.48665	.26861	.22765	.29262
#1	10.528	14.251	2.9067	2.4515	2.8375	3.0854	6.8410	2.4110
#2	10.588	14.208	2.9012	2.4553	2.8396	3.0809	6.8109	2.3970
#3	10.589	14.164	2.9095	2.4575	2.8148	3.0694	6.8193	2.4030

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	2.2976	.30702	53.326	.23562	38.529	3.9899	.49909	4.6672
Stddev	.0063	.00084	.332	.00091	.172	.0079	.00160	.0269
%RSD	.27325	.27423	.62175	.38526	.44675	.19705	.31978	.57686
#1	2.2906	.30651	53.671	.23576	38.473	3.9972	.49756	4.6955
#2	2.3026	.30657	53.298	.23465	38.391	3.9911	.50074	4.6642
#3	2.2997	.30799	53.009	.23645	38.722	3.9816	.49896	4.6419

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4994	.18950	7.3160	.69667	2.1303	35.591	5.6700
Stddev	.0048	.00031	.0462	.00201	.0068	.156	.0140
%RSD	.19252	.16459	.63137	.28879	.31906	.43827	.24756
#1	2.4944	.18936	7.3670	.69449	2.1368	35.702	5.6843
#2	2.4997	.18929	7.3041	.69846	2.1309	35.658	5.6695
#3	2.5041	.18986	7.2769	.69704	2.1233	35.413	5.6562

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S4 Acquired: 12/29/2024 1:27:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	1883.5	24352.	1950.6	1182.1	1598.6
Stddev	2.7	61.	14.3	3.4	.8
%RSD	.14121	.24897	.73117	.28589	.04966
#1	1885.6	24381.	1939.5	1186.0	1599.5
#2	1884.3	24282.	1945.6	1179.8	1598.4
#3	1880.5	24393.	1966.7	1180.6	1598.0

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S5 Acquired: 12/29/2024 1:31:26 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	1147.4	.77573	17.392	.66411	1.0779	38.035	91.425	10.056
Stddev	1.9	.00166	.023	.00139	.0033	.609	1.415	.190
%RSD	.16983	.21463	.13341	.20959	.31023	1.6010	1.5481	1.8883
#1	1146.2	.77744	17.417	.66453	1.0751	38.736	93.054	10.275
#2	1146.4	.77564	17.389	.66255	1.0769	37.641	90.495	9.9387
#3	1149.7	.77411	17.371	.66523	1.0816	37.728	90.727	9.9548

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	21.033	28.469	5.7163	4.8885	5.6944	6.1228	13.618	4.8540
Stddev	.040	.432	.0083	.0086	.0813	.1056	.229	.0823
%RSD	.19025	1.5192	.14538	.17611	1.4274	1.7241	1.6805	1.6948
#1	21.076	28.968	5.7094	4.8980	5.7876	6.2438	13.881	4.9480
#2	21.023	28.212	5.7255	4.8862	5.6568	6.0497	13.463	4.7953
#3	20.998	28.227	5.7139	4.8813	5.6387	6.0748	13.510	4.8186

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	4.5963	.62443	114.23	.47755	78.403	8.1567	1.0201	9.1869
Stddev	.0124	.00069	1.74	.01117	.507	.1186	.0017	.1625
%RSD	.27067	.10970	1.5194	2.3381	.64638	1.4534	.16685	1.7688
#1	4.6105	.62397	116.18	.49044	78.735	8.2936	1.0217	9.3738
#2	4.5913	.62521	113.68	.47083	78.654	8.0881	1.0202	9.0795
#3	4.5872	.62409	112.84	.47138	77.819	8.0885	1.0183	9.1073

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.1322	.38916	14.515	1.4015	4.3385	70.580	11.577
Stddev	.0133	.00104	.275	.0040	.0714	1.437	.190
%RSD	.26003	.26790	1.8922	.28199	1.6461	2.0356	1.6433
#1	5.1242	.39002	14.832	1.4059	4.4200	72.078	11.796
#2	5.1247	.38946	14.353	1.4005	4.2866	70.447	11.460
#3	5.1476	.38800	14.360	1.3982	4.3090	69.214	11.474

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: S5 Acquired: 12/29/2024 1:31:26 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	1761.7	23541.	1903.6	1079.3	1506.9
Stddev	1.2	96.	36.7	8.9	3.6
%RSD	.06686	.40632	1.9301	.82311	.23779
#1	1762.7	23561.	1861.7	1076.1	1504.2
#2	1762.0	23437.	1919.1	1072.4	1505.4
#3	1760.4	23625.	1930.1	1089.3	1510.9

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: S6 Acquired: 12/29/2024 1:35:28 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) 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	95.713	44.162	15.512	7.4582	314.62
Stddev	.392	.209	.072	.0423	.79
%RSD	.40908	.47427	.46164	.56647	.25214
#1	95.719	44.165	15.522	7.4669	314.01
#2	96.101	44.370	15.578	7.4954	315.51
#3	95.318	43.951	15.436	7.4123	314.32

Int. Std.	Y_3710
Units	Cts/S
Avg	1871.0
Stddev	.5
%RSD	.02652
#1	1870.9
#2	1870.5
#3	1871.5

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICV004 Acquired: 12/29/2024 1:54:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.098885	1.003591	.9734783	1.009322	.9639804	2.403303
Stddev	.005852	.008227	.0025810	.001266	.0042531	.013086
%RSD	.5325039	.8198048	.2651320	.1254604	.4412051	.5445062
#1	1.092139	1.000418	.9739037	1.009370	.9591191	2.409087
#2	1.102592	.997422	.9707111	1.008032	.9658071	2.388322
#3	1.101923	1.012933	.9758202	1.010563	.9670150	2.412501

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5122599	.5196395	.5026764	10.27296	.5434993	.5089894
Stddev	.0016213	.0008888	.0012486	.04958	.0004497	.0014306
%RSD	.3165091	.1710382	.2483804	.4826046	.0827374	.2810703
#1	.5104314	.5188555	.5015247	10.22950	.5430065	.5075325
#2	.5128257	.5194580	.5025013	10.32696	.5438873	.5090434
#3	.5135225	.5206050	.5040033	10.26241	.5436043	.5103922

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4868060	10.45946	.5173931	6.003799	.5120696	.2432002
Stddev	.0046707	.04868	.0025847	.044921	.0020766	.0004320
%RSD	.9594613	.4654409	.4995641	.7482155	.4055243	.1776279
#1	.4888287	10.40346	.5144764	6.033757	.5100618	.2430756
#2	.4814648	10.49170	.5193996	6.025492	.5119384	.2436808
#3	.4901244	10.48323	.5183032	5.952148	.5142087	.2428441

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.458800	.5080237	.9786025	9.066799	F .0023521	F .0048546
Stddev	.031423	.0155939	.0048954	.081798	.0012275	.0028686
%RSD	.3322088	3.069531	.5002418	.9021738	52.18773	59.08946
#1	9.423760	.5259446	.9815022	9.161252	.0030435	.0069267
#2	9.468161	.5005806	.9813548	9.019357	.0030778	.0015806
#3	9.484478	.4975460	.9729504	9.019789	.0009348	.0060565

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICV004 Acquired: 12/29/2024 1:54:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV004 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0009572	F .0090615	F .0004874	F .0013679	F .0003981	F -.009259
Stddev	.0002041	.0033864	.0011532	.0003719	.0008774	.000343
%RSD	21.32138	37.37126	236.6251	27.19030	220.4138	3.704210
#1	.0007297	.0099955	.0003297	.0009421	-.000496	-.009040
#2	.0010176	.0118828	.0017113	.0015323	.001258	-.009082
#3	.0011243	.0053061	-.000579	.0016293	.000433	-.009654

Elem	Li6707
Units	ppm
Avg	F .0078623
Stddev	.0029066
%RSD	36.96823
#1	.0112183
#2	.0061482
#3	.0062204

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2102.323	26445.87	1985.334	1342.619	1887.452
Stddev	1.082	34.11	9.464	3.610	.332
%RSD	.0514530	.1289719	.4767162	.2688908	.0175814
#1	2101.099	26479.63	1993.699	1341.502	1887.263
#2	2102.719	26446.55	1987.241	1339.699	1887.257
#3	2103.150	26411.43	1975.061	1346.656	1887.835

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICB004 Acquired: 12/29/2024 1:58:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000230	.0006604	.0001994	.0008052	-.000675	.0008452	-.001250
Stddev	.002840	.0013343	.0011193	.0031475	.000674	.0233225	.001723
%RSD	1233.084	202.0263	561.3142	390.8873	99.77258	2759.285	137.8507
#1	-.003102	.0018992	.0014729	.0044392	-.001330	-.006077	.000518
#2	.002578	-.000752	-.000629	-.000963	-.000713	.026845	-.002923
#3	-.000167	.000834	-.000246	-.001060	.000016	-.018233	-.001344

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000087	.0001137	.0273715	.0011604	.0003847	-.005304	.0128153
Stddev	.000007	.0000228	.0640886	.0009448	.0003721	.004668	.0214279
%RSD	8.423154	20.08205	234.1436	81.42155	96.74403	88.02114	167.2061
#1	-.000079	.0001107	.0727456	.0003029	.0000042	-.004484	.0284049
#2	-.000091	.0001380	-.045944	.0021733	.0007478	-.001099	.0216600
#3	-.000092	.0000926	.055313	.0010052	.0004020	-.010328	-.011619

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003813	.0229955	.0004191	-.000081	.0592061	-.008701	.0000101
Stddev	.0005487	.0055358	.0000573	.000788	.0194104	.005823	.0004367
%RSD	143.8905	24.07360	13.68091	972.0907	32.78444	66.92727	4321.374
#1	.0002040	.0270275	.0003536	.000040	.0654087	-.004287	-.000419
#2	-.000057	.0166838	.0004603	-.000922	.0374525	-.015301	-.000004
#3	.000997	.0252752	.0004434	.000639	.0747572	-.006515	.000454

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1357920	.0027407	.0013612	.0007353	-.000764	-.000488	-.000325
Stddev	.1884484	.0023609	.0036552	.0004355	.002046	.000459	.001231
%RSD	138.7772	86.14159	268.5292	59.22481	267.7613	93.93665	379.1307
#1	.2586942	.0032332	.0046431	.0011907	.001576	-.000614	.000768
#2	-.081171	.0001724	-.002578	.0003228	-.002218	.000020	-.000083
#3	.229853	.0048166	.002019	.0006925	-.001651	-.000872	-.001659

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICB004 Acquired: 12/29/2024 1:58:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB004 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0020958	.0002520	.0057479
Stddev	.0020294	.0001810	.0038260
%RSD	96.83233	71.83588	66.56335
#1	.0036052	.0002624	.0013302
#2	.0028933	.0004275	.0079925
#3	-.000211	.0000660	.0079211

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2075.476	26009.49	1950.265	1317.034	1872.394
Stddev	4.698	46.37	26.768	3.106	1.720
%RSD	.2263563	.1782834	1.372534	.2358650	.0918862
#1	2070.784	26060.51	1953.087	1314.724	1872.862
#2	2075.464	25969.90	1975.510	1315.812	1870.488
#3	2080.180	25998.06	1922.198	1320.565	1873.833

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICSA004 Acquired: 12/29/2024 2:02:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020400	-.016230	-.007998	.0209043	-.004613	243.6935
Stddev	.0035318	.003847	.000636	.0104193	.006383	.2577
%RSD	173.1269	23.70195	7.947183	49.84303	138.3692	.1057617
#1	-.002016	-.014336	-.008481	.0194453	.001386	243.8923
#2	.004439	-.013698	-.008235	.0112913	-.011320	243.7859
#3	.003697	-.020657	-.007278	.0319762	-.003905	243.4023

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035555	.0045441	.0008689	248.9655	.0516854	.0053239
Stddev	.0005994	.0002461	.0001151	.4477	.0006116	.0003541
%RSD	16.85929	5.415423	13.24390	.1798238	1.183332	6.650519
#1	.0041802	.0043126	.0009744	249.4825	.0517059	.0051298
#2	.0029850	.0045172	.0007462	248.7049	.0522865	.0057326
#3	.0035014	.0048026	.0008861	248.7092	.0510638	.0051094

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014790	103.1241	.0092838	261.4306	.0030770	.0007914
Stddev	.011698	.3453	.0008058	.3216	.0003618	.0008031
%RSD	79.09024	.3348273	8.680131	.1230092	11.75840	101.4814
#1	-.015725	103.0157	.0092739	261.0803	.0026610	.0017110
#2	-.002653	102.8460	.0100946	261.4989	.0032507	.0002282
#3	-.025992	103.5105	.0084830	261.7125	.0033191	.0004349

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1283626	.0124767	-.034618	-.252869	.0004366	F .0263406
Stddev	.0159392	.0089585	.000327	.092468	.0019205	.0011242
%RSD	12.41734	71.80212	.9451123	36.56753	439.9329	4.268098
#1	.1146006	.0227984	-.034462	-.299712	.0014115	.0275537
#2	.1458273	.0079081	-.034397	-.146353	.0016740	.0261341
#3	.1246599	.0067234	-.034994	-.312541	-.001776	.0253339

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICSA004 Acquired: 12/29/2024 2:02:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA004 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018990	.0113739	-.003332	F .0115438	.0027027	.0003317
Stddev	.0005765	.0011394	.000168	.0030977	.0009712	.0008366
%RSD	30.36046	10.01807	5.028410	26.83406	35.93411	252.1954
#1	.0021321	.0114779	-.003348	.0089960	.0017052	.0008485
#2	.0012424	.0101860	-.003491	.0149919	.0027576	.0007801
#3	.0023225	.0124578	-.003157	.0106436	.0036453	-.000633

Elem	Li6707
Units	ppm
Avg	.0142620
Stddev	.0015282
%RSD	10.71499
#1	.0125000
#2	.0152261
#3	.0150599

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1974.478	24733.18	1924.499	1262.417	1673.965
Stddev	3.007	110.34	4.143	10.032	3.043
%RSD	.1522877	.4461299	.2152954	.7946960	.1817705
#1	1974.062	24606.41	1919.834	1251.399	1677.241
#2	1977.671	24807.68	1925.909	1264.828	1673.426
#3	1971.701	24785.44	1927.753	1271.025	1671.227

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICSAB004 Acquired: 12/29/2024 2:06:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1118776	.0902661	.0454975	.0671178	.6258105	241.7928
Stddev	.0027533	.0080685	.0011954	.0156508	.0039188	.1671
%RSD	2.460966	8.938586	2.627335	23.31846	.6262033	.0691190
#1	.1149922	.0993057	.0468375	.0654370	.6292711	241.8254
#2	.1108724	.0837930	.0445409	.0835411	.6215552	241.6118
#3	.1097681	.0876996	.0451139	.0523751	.6266052	241.9412

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5620740	.5698206	1.087140	246.4959	.6230870	.5447231
Stddev	.0025663	.0025451	.001308	.3235	.0024054	.0018359
%RSD	.4565821	.4466581	.1203552	.1312490	.3860538	.3370374
#1	.5609856	.5681219	1.086819	246.7250	.6205242	.5455640
#2	.5650052	.5727469	1.086022	246.6371	.6234407	.5426173
#3	.5602313	.5685930	1.088580	246.1258	.6252960	.5459879

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4882767	102.5813	.5603140	259.8846	1.080984	.2179611
Stddev	.0181526	.1212	.0014494	.9389	.001274	.0014534
%RSD	3.717698	.1181418	.2586804	.3612915	.1178463	.6668052
#1	.5078297	102.7210	.5619657	260.9668	1.081740	.2163477
#2	.4719596	102.5043	.5592544	259.2859	1.079513	.2183680
#3	.4850409	102.5185	.5597218	259.4012	1.081698	.2191678

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1163312	.5504531	1.042323	-.498539	.0006253	F .0264078
Stddev	.0297385	.0082175	.003599	.203992	.0055238	.0007416
%RSD	25.56360	1.492860	.3453101	40.91805	883.3752	2.808309
#1	.1384750	.5426655	1.040507	-.560669	.0007880	.0266951
#2	.1279886	.5590418	1.046469	-.664242	.0060659	.0255656
#3	.0825302	.5496521	1.039994	-.270705	-.004978	.0269629

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: ICSAB004 Acquired: 12/29/2024 2:06:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB004 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010875	.0221817	-.000917	F .0105060	-.003374	-.000398
Stddev	.0011451	.0026426	.001279	.0030422	.005351	.000730
%RSD	105.3022	11.91350	139.5579	28.95707	158.6099	183.5243
#1	.0021298	.0227342	-.000002	.0123220	-.008939	-.001218
#2	.0012709	.0193065	-.000369	.0069938	-.002917	.000182
#3	-.000138	.0245043	-.002379	.0122022	.001734	-.000158

Elem	Li6707
Units	ppm
Avg	.0070975
Stddev	.0037647
%RSD	53.04287
#1	.0031845
#2	.0106939
#3	.0074142

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1987.087	25013.61	1944.798	1271.857	1683.903
Stddev	3.367	120.94	1.297	3.867	2.833
%RSD	.1694210	.4834908	.0667023	.3040578	.1682220
#1	1990.056	25059.00	1946.293	1272.457	1685.564
#2	1987.774	25105.29	1943.970	1275.390	1685.513
#3	1983.429	24876.55	1944.132	1267.725	1680.632

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV033 Acquired: 12/29/2024 2:10:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV033 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.072976	4.786423	24.55027	5.011241	4.932659	398.6572	9.922427
Stddev	.007198	.004474	.00843	.014093	.009689	3.7633	.108083
%RSD	.1418799	.0934635	.0343494	.2812332	.1964209	.9439933	1.089280
#1	5.080031	4.791511	24.55657	5.001586	4.924731	400.2453	9.970314
#2	5.073254	4.784652	24.54069	5.027414	4.929786	394.3602	9.798674
#3	5.065644	4.783106	24.55354	5.004725	4.943459	401.3661	9.998294

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5123268	2.475789	398.8472	15.59437	2.387948	14.62614	404.8100
Stddev	.0060724	.001351	3.6243	.45867	.000692	.10301	3.1735
%RSD	1.185262	.0545657	.9086938	2.941246	.0289640	.7042882	.7839360
#1	.5193364	2.476113	400.8080	15.22180	2.388292	14.64650	406.1086
#2	.5089758	2.474305	394.6650	16.10664	2.388400	14.51447	401.1932
#3	.5086682	2.476948	401.0687	15.45465	2.387151	14.71745	407.1281

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.59925	399.7624	2.487871	1.282914	413.6465	2.465894	15.03623
Stddev	.14163	3.9731	.001312	.034682	3.8259	.024389	.46576
%RSD	.9701104	.9938543	.0527185	2.703403	.9249147	.9890461	3.097586
#1	14.67007	401.6970	2.489365	1.255058	417.2888	2.474441	14.62736
#2	14.43619	395.1926	2.487334	1.321759	409.6602	2.438382	15.54324
#3	14.69151	402.3976	2.486913	1.271923	413.9904	2.484859	14.93808

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.0521	4.964559	4.932342	4.924602	5.014034	4.849377	4.998613
Stddev	1.9241	.004830	.044727	.008284	.010835	.055390	.003551
%RSD	1.282317	.0972845	.9068076	.1682156	.2160973	1.142218	.0710325
#1	150.9262	4.970128	4.980959	4.917042	5.002401	4.908557	4.999739
#2	147.8461	4.961504	4.923126	4.933458	5.015860	4.840796	5.001465
#3	151.3841	4.962047	4.892942	4.923305	5.023839	4.798778	4.994636

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV033 Acquired: 12/29/2024 2:10:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV033 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.955065	4.612590	5.034153
Stddev	.049824	.039949	.058735
%RSD	1.005518	.8660783	1.166721
#1	4.986758	4.628979	5.060555
#2	4.897636	4.567053	4.966851
#3	4.980800	4.641737	5.075054

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1835.412	23342.78	1906.191	1136.801	1548.289
Stddev	3.954	658.80	19.124	36.467	2.625
%RSD	.2154454	2.822268	1.003272	3.207898	.1695243
#1	1839.953	23911.46	1884.166	1169.887	1550.275
#2	1833.551	22620.87	1918.581	1097.700	1549.280
#3	1832.732	23496.00	1915.828	1142.814	1545.314

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB033 Acquired: 12/29/2024 2:14:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB033 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002973	-.000043	.0033779	-.000950	-.003358	-.027518
Stddev	.002013	.004577	.0012894	.005534	.002279	.028885
%RSD	67.70574	10764.56	38.17220	582.7386	67.88599	104.9696
#1	-.005142	.003730	.0019360	-.006934	-.003062	-.060685
#2	-.002614	.001276	.0044202	.003982	-.005771	-.007883
#3	-.001164	-.005133	.0037776	.000104	-.001241	-.013985

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001103	-.000017	.0000656	.0070440	.0005421	.0000038
Stddev	.001764	.000046	.0000955	.0061972	.0003477	.0005951
%RSD	159.8847	278.6767	145.5898	87.97833	64.13194	15862.33
#1	-.001344	.000036	-.000039	.0136483	.0002006	-.000456
#2	-.002735	-.000048	.000087	.0013559	.0005300	.000676
#3	.000769	-.000039	.000148	.0061277	.0008956	-.000209

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000212	.0260694	.0002083	-.059989	.0001182	-.000117
Stddev	.004010	.0210888	.0004465	.081109	.0002010	.000900
%RSD	1892.214	80.89489	214.3174	135.2076	170.0017	767.1565
#1	.003957	.0415334	-.000062	-.102679	.0001214	-.000575
#2	-.000552	.0020467	.000724	-.110837	.0003176	-.000695
#3	-.004041	.0346281	-.000037	.033550	-.000084	.000919

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0796504	-.003692	.0020285	.3251604	.0006514	.0110715
Stddev	.0406265	.016949	.0001238	.1335230	.0010860	.0026845
%RSD	51.00609	459.0789	6.104394	41.06374	166.7222	24.24691
#1	.0330594	-.021336	.0021456	.2827759	.0017868	.0119931
#2	.0982046	-.002203	.0020411	.2179740	-.000377	.0131738
#3	.1076871	.012463	.0018989	.4747312	.000545	.0080476

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB033 Acquired: 12/29/2024 2:14:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB033 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007256	.0063367	-.000421	-.000143	.0004941	.0000533
Stddev	.0003076	.0020552	.000107	.001280	.0021983	.0001638
%RSD	42.38430	32.43310	25.54548	898.3593	444.9540	307.3666
#1	.0003710	.0086888	-.000308	-.001149	.0027922	-.000135
#2	.0009198	.0054338	-.000433	-.000577	-.001589	.000137
#3	.0008861	.0048875	-.000522	.001299	.000278	.000158

Elem	Li6707
Units	ppm
Avg	F .0168108
Stddev	.0058634
%RSD	34.87900
#1	.0100621
#2	.0206550
#3	.0197154

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2077.598	26049.45	1938.825	1322.321	1875.729
Stddev	2.812	160.35	5.894	12.027	6.632
%RSD	.1353390	.6155609	.3040215	.9095623	.3535942
#1	2075.335	26204.64	1942.574	1332.860	1868.965
#2	2080.746	26059.33	1941.870	1324.885	1882.222
#3	2076.713	25884.40	1932.031	1309.218	1876.001

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165360BL Acquired: 12/29/2024 2:18:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS360 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005241	-.001248	-.000869	-.003772	-.002100	-.002027	-.001856
Stddev	.000808	.001027	.001396	.001515	.001700	.004813	.001140
%RSD	15.41545	82.24935	160.7296	40.17358	80.96838	237.3929	61.41491
#1	-.005610	-.002274	.000272	-.002257	-.003990	.002238	-.003163
#2	-.005799	-.000221	-.000452	-.003771	-.000696	-.007245	-.001069
#3	-.004315	-.001249	-.002425	-.005288	-.001613	-.001075	-.001335

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000104	-.000055	.0066567	-.000137	.0000236	-.007154	-.016769
Stddev	.000103	.000038	.0354285	.000610	.0006984	.007622	.022151
%RSD	98.75488	69.38875	532.2232	443.9157	2960.713	106.5411	132.0925
#1	-.000214	-.000025	.0014482	-.000710	-.000018	-.007030	.007422
#2	-.000012	-.000098	-.025879	.000503	.000742	.000405	-.036058
#3	-.000086	-.000041	.044401	-.000205	-.000653	-.014837	-.021670

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001589	-.062669	-.000408	-.000090	.0175610	-.001841	-.000553
Stddev	.002629	.094345	.000536	.001006	.0206390	.003610	.000279
%RSD	165.4568	150.5453	131.3821	1121.706	117.5271	196.1125	50.35113
#1	-.000250	-.133940	-.000173	.000027	.0383474	-.006006	-.000252
#2	.000101	.044320	-.000030	-.001149	.0172630	.000087	-.000606
#3	-.004618	-.098385	-.001021	.000853	-.002927	.000396	-.000802

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2015665	.0007209	.0027185	.0001266	.0048630	-.000627	-.001338
Stddev	.0199533	.0022907	.0019249	.0002336	.0039291	.001022	.002257
%RSD	9.899136	317.7670	70.80650	184.5673	80.79595	163.1540	168.7781
#1	.2062354	.0013173	.0008926	.0001521	.0005800	.000301	-.002382
#2	.2187714	.0026545	.0025338	-.000119	.0057084	-.000458	.001253
#3	.1796927	-.001809	.0047291	.000346	.0083006	-.001723	-.002883

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165360BL Acquired: 12/29/2024 2:18:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS360 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0006477	-.000100	.0077230
Stddev	.0015952	.000335	.0056340
%RSD	246.2955	336.2041	72.95135
#1	.0001158	-.000431	.0118855
#2	.0024409	.000238	.0013119
#3	-.000614	-.000106	.0099717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2063.786	26166.07	1904.238	1327.918	1860.055
Stddev	1.835	63.50	9.839	.429	2.400
%RSD	.0889205	.2426690	.5166818	.0323412	.1290551
#1	2065.616	26150.11	1911.978	1327.573	1857.953
#2	2061.946	26236.03	1907.572	1327.782	1859.542
#3	2063.796	26112.08	1893.166	1328.399	1862.671

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165360BS Acquired: 12/29/2024 2:22:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS360 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145751	.0497997	.0185250	.0653098	.1089777	.3747955
Stddev	.0009952	.0020420	.0013385	.0046672	.0025873	.0131998
%RSD	6.828264	4.100488	7.225147	7.146201	2.374141	3.521865
#1	.0135393	.0516889	.0174355	.0698000	.1087731	.3898345
#2	.0146621	.0476332	.0181204	.0656457	.1064988	.3694223
#3	.0155240	.0500772	.0200190	.0604838	.1116612	.3651298

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3937035	.0102966	.0096126	9.791184	.0207404	.1041248
Stddev	.0023972	.0002049	.0001625	.064039	.0007391	.0009754
%RSD	.6088960	1.989937	1.690460	.6540485	3.563456	.9367670
#1	.3909467	.0100745	.0097088	9.717357	.0212203	.1039394
#2	.3948654	.0104783	.0094249	9.824472	.0198893	.1032554
#3	.3952984	.0103369	.0097040	9.831724	.0211116	.1051796

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0540259	.2086816	.0291732	10.03812	.0776117	.0187700
Stddev	.0026747	.0136440	.0006749	.09577	.0006911	.0010626
%RSD	4.950806	6.538209	2.313275	.9541110	.8904408	5.661300
#1	.0559897	.2147821	.0286865	10.02472	.0775746	.0175926
#2	.0551085	.1930516	.0299436	10.13989	.0769399	.0190597
#3	.0509796	.2182109	.0288894	9.94975	.0783206	.0196578

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.212712	.0981009	.1200436	9.557450	.0191221	F .0016193
Stddev	.024134	.0054117	.0007698	.104179	.0013702	.0024093
%RSD	.3346098	5.516465	.6412328	1.090027	7.165282	148.7872
#1	7.189446	.0921922	.1191939	9.546916	.0175674	.0009714
#2	7.211059	.0992942	.1206944	9.458938	.0196456	.0042864
#3	7.237630	.1028164	.1202425	9.666495	.0201534	-.000400

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165360BS Acquired: 12/29/2024 2:22:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS360 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206363	.1828277	F .4861489	.0123154	.2012396	.1971406
Stddev	.0001277	.0041561	.0034182	.0017256	.0023821	.0020483
%RSD	.6189947	2.273235	.7031274	14.01152	1.183700	1.039001
#1	.0206933	.1833404	.4840016	.0115546	.1985174	.1950238
#2	.0204900	.1784390	.4900907	.0142906	.2022596	.1991127
#3	.0207256	.1867036	.4843544	.0111009	.2029419	.1972854

Elem	Li6707
Units	ppm
Avg	F .0394626
Stddev	.0033208
%RSD	8.415051
#1	.0358686
#2	.0424172
#3	.0401019

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2080.056	26242.29	1940.563	1332.759	1875.171
Stddev	12.224	24.52	4.747	3.610	10.575
%RSD	.5876667	.0934393	.2446122	.2708337	.5639542
#1	2086.585	26246.65	1944.108	1334.948	1880.200
#2	2087.628	26215.88	1935.170	1328.593	1882.293
#3	2065.954	26264.34	1942.410	1334.736	1863.020

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165369BL Acquired: 12/29/2024 2:26:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS369 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001262	-.000662	-.001368	-.001814	-.004068	-.017166	-.001392
Stddev	.003409	.004643	.000830	.001283	.003416	.008890	.000880
%RSD	270.0979	701.5597	60.64564	70.74215	83.98321	51.79076	63.17868
#1	.000966	.004681	-.000519	-.002075	-.007357	-.022712	-.002020
#2	.000434	-.003715	-.002176	-.000420	-.004310	-.006911	-.001770
#3	-.005187	-.002952	-.001408	-.002945	-.000537	-.021874	-.000387

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000021	-.000094	-.003386	.0004407	-.000052	-.009033	-.009126
Stddev	.000033	.000037	.019861	.0005070	.000571	.007709	.013407
%RSD	159.6224	39.55399	586.5845	115.0531	1100.147	85.33860	146.9193
#1	.000017	-.000051	-.017694	-.000127	.000570	-.015102	.005310
#2	-.000045	-.000118	.019289	.000601	-.000551	-.011638	-.011498
#3	-.000034	-.000114	-.011753	.000848	-.000175	-.000359	-.021188

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000334	-.098420	-.000256	.0002290	.0327227	-.001272	-.002259
Stddev	.000589	.076853	.000233	.0008692	.0309152	.000788	.000400
%RSD	176.2281	78.08714	91.08978	379.6209	94.47650	61.96830	17.71427
#1	-.000097	-.186983	-.000280	-.000033	.0682245	-.001953	-.001823
#2	.000099	-.049253	-.000012	.001199	.0117368	-.001455	-.002609
#3	-.001004	-.059024	-.000477	-.000479	.0182066	-.000408	-.002347

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2244814	.0013409	-.001277	.0000686	.0034085	-.001085	-.001660
Stddev	.3450367	.0020952	.001045	.0004756	.0061562	.001247	.000795
%RSD	153.7039	156.2506	81.86124	693.1265	180.6117	114.9894	47.90729
#1	.5863104	-.000722	-.001894	-.000455	-.002619	-.001211	-.002566
#2	.1879973	.001278	-.000070	.000474	.003159	.000221	-.001339
#3	-.100864	.003467	-.001866	.000186	.009686	-.002264	-.001076

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165369BL Acquired: 12/29/2024 2:26:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS369 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0008218	-.000194	.0058163
Stddev	.0004096	.000362	.0024945
%RSD	49.83849	186.6365	42.88858
#1	.0009864	.000223	.0076354
#2	.0011235	-.000383	.0068410
#3	.0003556	-.000422	.0029726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2079.488	26253.71	1948.682	1335.727	1878.077
Stddev	4.945	111.34	10.282	8.619	1.685
%RSD	.2378022	.4240951	.5276408	.6452465	.0897303
#1	2085.146	26131.98	1937.525	1325.853	1880.004
#2	2077.331	26278.74	1957.777	1339.588	1876.875
#3	2075.989	26350.40	1950.743	1341.740	1877.354

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165369BS Acquired: 12/29/2024 2:30:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS369 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156093	.0479353	.0175573	.0604666	.1070948	.3679428	.3837457
Stddev	.0018244	.0039263	.0004708	.0038371	.0009021	.0078269	.0023424
%RSD	11.68816	8.190857	2.681636	6.345786	.8423054	2.127210	.6104023
#1	.0168861	.0498684	.0177138	.0606428	.1081361	.3593105	.3820612
#2	.0135197	.0505203	.0179299	.0642126	.1065970	.3745771	.3827554
#3	.0164221	.0434172	.0170281	.0565445	.1065514	.3699407	.3864206

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098108	.0093975	9.600411	.0199538	.1013565	.0498359	.1907741
Stddev	.0002049	.0000300	.096694	.0004687	.0000867	.0023918	.0240212
%RSD	2.088370	.3190643	1.007182	2.348888	.0854951	4.799308	12.59144
#1	.0097655	.0093752	9.509885	.0194198	.1012676	.0525916	.1636199
#2	.0096323	.0094316	9.589077	.0202969	.1014408	.0486175	.2092510
#3	.0100345	.0093857	9.702273	.0201447	.1013611	.0482988	.1994513

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0294436	9.803131	.0753031	.0183411	6.988406	.0926337	.1147710
Stddev	.0005601	.072071	.0004628	.0004969	.106445	.0080455	.0004262
%RSD	1.902245	.7351795	.6145641	2.709093	1.523173	8.685288	.3713318
#1	.0288273	9.885346	.0748498	.0178160	6.932831	.0858186	.1152621
#2	.0299216	9.750858	.0752848	.0188038	6.921250	.1015090	.1144979
#3	.0295819	9.773188	.0757748	.0184034	7.111136	.0905734	.1145531

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.128015	.0185093	-.001811	.0190711	.1788929	.4685964	.0131402
Stddev	.158325	.0017372	.001410	.0008759	.0049813	.0055010	.0015333
%RSD	1.734499	9.385768	77.86397	4.592929	2.784536	1.173922	11.66859
#1	8.963973	.0199596	-.000522	.0200823	.1804449	.4644434	.0121087
#2	9.140148	.0189845	-.003318	.0185464	.1829134	.4665106	.0149021
#3	9.279926	.0165840	-.001594	.0185847	.1733203	.4748352	.0124096

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165369BS Acquired: 12/29/2024 2:30:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS369 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1960218	.1916168	.0329289
Stddev	.0071354	.0011220	.0006543
%RSD	3.640081	.5855652	1.987098
#1	.1877831	.1906001	.0332602
#2	.2000623	.1914296	.0321752
#3	.2002200	.1928206	.0333513

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2119.304	26661.17	1980.065	1354.943	1913.682
Stddev	3.707	76.36	18.271	2.552	.573
%RSD	.1749082	.2863929	.9227252	.1883701	.0299449
#1	2116.945	26732.25	1996.990	1356.422	1914.100
#2	2123.577	26580.45	1982.509	1351.996	1913.029
#3	2117.390	26670.82	1960.695	1356.411	1913.918

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165395BL Acquired: 12/29/2024 2:34:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS395 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000891	.0006390	-.001288	.0002934	-.000916	-.017680	-.002417
Stddev	.003309	.0015559	.001206	.0009101	.002337	.032739	.001750
%RSD	371.2156	243.4756	93.65882	310.1873	255.1375	185.1719	72.38603
#1	-.004197	-.001141	-.000399	.0000408	.001492	-.044965	-.000576
#2	.002422	.001739	-.000804	.0013032	-.003175	.018622	-.002617
#3	-.000900	.001319	-.002661	-.000464	-.001066	-.026698	-.004058

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001866	-.000036	-.036486	-.000478	.0002745	-.004435	.0037184
Stddev	.0001093	.000133	.037688	.000578	.0001716	.004358	.0370404
%RSD	58.56508	366.4668	103.2937	121.0363	62.49638	98.26124	996.1318
#1	.0001329	-.000189	-.010830	-.000231	.0000778	-.005220	-.016679
#2	.0001146	.000035	-.018873	-.000064	.0003528	.000262	-.018640
#3	.0003124	.000046	-.079755	-.001139	.0003929	-.008348	.046474

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002983	-.042123	.0003044	.0001492	.0192357	-.001968	-.002272
Stddev	.0017953	.077006	.0005516	.0013365	.0116699	.006738	.000163
%RSD	601.8044	182.8117	181.2560	895.9170	60.66792	342.3511	7.161713
#1	-.001354	-.005278	-.000248	-.000485	.0228449	-.008707	-.002384
#2	.000040	-.130630	.000307	.001685	.0061876	-.001967	-.002086
#3	.002209	.009538	.000855	-.000752	.0286747	.004770	-.002347

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1538573	-.000047	-.002435	.0000169	.0025363	-.000266	-.000509
Stddev	.1648549	.002979	.002370	.0005507	.0027161	.000508	.001275
%RSD	107.1479	6326.577	97.35819	3259.992	107.0916	190.8990	250.6875
#1	-.027233	.003184	-.001010	-.000044	-.000186	.000244	.000624
#2	.193591	-.002685	-.001123	-.000501	.002548	-.000270	-.000260
#3	.295214	-.000641	-.005171	.000596	.005247	-.000773	-.001890

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165395BL Acquired: 12/29/2024 2:34:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS395 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0018975	.0000177	.0027182
Stddev	.0038536	.0004447	.0052072
%RSD	203.0923	2512.169	191.5666
#1	.0056580	.0005120	.0085643
#2	-.002043	-.000350	-.001423
#3	.002077	-.000109	.001013

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2082.687	26416.95	1949.419	1344.091	1881.408
Stddev	5.525	58.04	2.362	6.638	4.717
%RSD	.2652905	.2197226	.1211813	.4938752	.2507182
#1	2088.471	26481.97	1950.111	1346.936	1886.706
#2	2077.463	26370.36	1946.788	1336.504	1877.666
#3	2082.128	26398.51	1951.358	1348.831	1879.852

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165395BS Acquired: 12/29/2024 2:38:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS395 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147537	.0474446	.0167806	.0540696	.1067300	.3927263
Stddev	.0048038	.0006981	.0021548	.0036201	.0027779	.0249059
%RSD	32.55971	1.471316	12.84109	6.695247	2.602721	6.341793
#1	.0164460	.0475787	.0162784	.0517707	.1098441	.4202606
#2	.0093328	.0480658	.0191421	.0582425	.1045073	.3717689
#3	.0184823	.0466892	.0149211	.0521956	.1058385	.3861493

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3862778	.0099473	.0093545	9.653266	.0200717	.1015324
Stddev	.0009947	.0002687	.0001602	.037314	.0009387	.0000672
%RSD	.2575045	2.700812	1.712108	.3865467	4.676699	.0661619
#1	.3854146	.0096386	.0095260	9.631096	.0211482	.1015657
#2	.3860531	.0101281	.0093290	9.696347	.0194233	.1014551
#3	.3873656	.0100752	.0092087	9.632355	.0196437	.1015764

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0486706	.1887063	.0288573	9.932938	.0750436	.0185276
Stddev	.0077641	.0181742	.0014738	.132966	.0001892	.0008705
%RSD	15.95241	9.630954	5.107116	1.338634	.2520918	4.698435
#1	.0397059	.1696238	.0285630	9.984879	.0751342	.0188831
#2	.0530673	.1906847	.0304560	9.781842	.0748261	.0175356
#3	.0532385	.2058104	.0275529	10.03209	.0751704	.0191641

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.768373	.0917771	.1152016	9.374356	.0195526	F -.002042
Stddev	.136816	.0074798	.0003246	.109547	.0036696	.001392
%RSD	1.761192	8.149941	.2817667	1.168578	18.76762	68.19011
#1	7.615665	.0875979	.1155646	9.285380	.0220238	-.003304
#2	7.809673	.0873209	.1149392	9.340979	.0212977	-.002272
#3	7.879781	.1004126	.1151009	9.496709	.0153361	-.000549

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165395BS Acquired: 12/29/2024 2:38:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS395 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194642	.1813483	F .4737802	.0117451	.1902876	.1937825
Stddev	.0006109	.0056006	.0057944	.0003178	.0018463	.0012022
%RSD	3.138760	3.088321	1.223019	2.705500	.9702854	.6204018
#1	.0199574	.1857805	.4671084	.0120778	.1898985	.1933321
#2	.0187808	.1832106	.4766782	.0114448	.1886669	.1928705
#3	.0196545	.1750537	.4775538	.0117126	.1922975	.1951449

Elem	Li6707
Units	ppm
Avg	.0337440
Stddev	.0026869
%RSD	7.962654
#1	.0323491
#2	.0320414
#3	.0368415

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2093.763	26467.48	1973.017	1347.216	1893.213
Stddev	.501	266.71	15.889	16.632	2.034
%RSD	.0239487	1.007683	.8053295	1.234519	.1074113
#1	2093.483	26179.05	1985.955	1328.449	1891.390
#2	2093.465	26518.21	1977.813	1353.069	1895.406
#3	2094.342	26705.17	1955.282	1360.130	1892.843

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165396BL Acquired: 12/29/2024 2:42:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS396 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000291	.0020937	-.003321	-.002026	-.000433	-.016057	-.000915
Stddev	.004397	.0057806	.001619	.006350	.001020	.021314	.001059
%RSD	1508.958	276.0946	48.73814	313.4143	235.9258	132.7445	115.7284
#1	.000374	.0085032	-.001621	-.002592	.000619	-.030852	-.000359
#2	-.004983	.0005025	-.004843	.004588	-.001419	.008374	-.000250
#3	.003735	-.002725	-.003500	-.008074	-.000498	-.025692	-.002136

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000168	-.000103	-.033343	.0007810	-.000072	.0032191	.0236806
Stddev	.000093	.000042	.030529	.0000484	.000317	.0019949	.0100678
%RSD	55.54595	40.46378	91.56118	6.200584	441.3612	61.96970	42.51503
#1	-.000212	-.000083	.001325	.0007965	-.000412	.0013422	.0267436
#2	-.000061	-.000075	-.056214	.0008198	.000215	.0030011	.0318611
#3	-.000231	-.000151	-.045141	.0007267	-.000018	.0053141	.0124370

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001476	-.036577	.0004053	.0000789	.0072891	-.008158	-.002818
Stddev	.002001	.097665	.0003881	.0012789	.0205575	.008677	.000229
%RSD	135.5448	267.0133	95.76170	1621.036	282.0293	106.3644	8.142458
#1	-.000550	.076070	.0005987	.0003408	-.006601	-.013595	-.003077
#2	-.000106	-.097525	.0006588	.0012066	-.002436	.001849	-.002638
#3	-.003773	-.088276	-.000042	-.001311	.030905	-.012729	-.002741

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0946488	.0025828	-.004408	.0008377	.0030857	-.001236	-.001555
Stddev	.1171845	.0021712	.000509	.0001944	.0011244	.001297	.001055
%RSD	123.8097	84.06089	11.54789	23.20364	36.43869	104.9400	67.85489
#1	.0173153	.0039825	-.003996	.0009205	.0040640	-.002514	-.002416
#2	.2294761	.0036843	-.004977	.0009769	.0018573	.000079	-.000378
#3	.0371551	.0000817	-.004252	.0006156	.0033357	-.001273	-.001872

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165396BL Acquired: 12/29/2024 2:42:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS396 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0063388	-.000180	.0003237
Stddev	.0036865	.000264	.0070555
%RSD	58.15719	146.9808	2179.728
#1	.0068712	.000108	.0054381
#2	.0024151	-.000411	-.007725
#3	.0097302	-.000236	.003258

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2097.808	26501.36	1961.102	1339.338	1903.268
Stddev	2.526	250.71	58.445	10.400	2.264
%RSD	.1203889	.9460423	2.980196	.7764725	.1189338
#1	2097.451	26766.27	1897.076	1351.339	1904.464
#2	2095.480	26470.01	1974.643	1333.700	1900.658
#3	2100.493	26267.79	2011.588	1332.975	1904.683

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165396BS Acquired: 12/29/2024 2:46:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS396 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192401	.0479919	.0178305	.0609958	.1127922	.4079792
Stddev	.0008155	.0019630	.0003621	.0006739	.0081662	.0363561
%RSD	4.238546	4.090249	2.030642	1.104806	7.240082	8.911269
#1	.0183062	.0461210	.0178607	.0614564	.1035232	.3703359
#2	.0198112	.0478191	.0181765	.0602223	.1189274	.4107072
#3	.0196029	.0500356	.0174542	.0613086	.1159260	.4428945

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3897207	.0100422	.0097007	9.772591	.0210752	.1048302
Stddev	.0191110	.0004017	.0001154	.458849	.0004283	.0002818
%RSD	4.903763	4.000179	1.189486	4.695260	2.032064	.2687868
#1	.3720348	.0095852	.0095697	9.311834	.0210021	.1046830
#2	.3871339	.0103395	.0097450	9.776433	.0215353	.1046524
#3	.4099933	.0102018	.0097874	10.22951	.0206882	.1051550

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0397202	.1794466	.0314613	10.11432	.0782353	.0191450
Stddev	.0063983	.0097638	.0019375	.46120	.0004321	.0007868
%RSD	16.10855	5.441087	6.158473	4.559829	.5522407	4.109741
#1	.0403300	.1874301	.0292468	9.67223	.0786918	.0192422
#2	.0457919	.1823490	.0322927	10.07823	.0778327	.0183141
#3	.0330388	.1685606	.0328444	10.59250	.0781814	.0198787

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.203092	.1027307	.1197692	9.315703	.0203552	F -.002217
Stddev	.384556	.0118648	.0015165	.535441	.0010280	.000945
%RSD	4.178553	11.54940	1.266179	5.747728	5.050520	42.62991
#1	8.804465	.1060680	.1180671	8.729436	.0205157	-.003010
#2	9.232978	.0895546	.1209766	9.438791	.0192564	-.001171
#3	9.571833	.1125694	.1202638	9.778882	.0212936	-.002470

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165396BS Acquired: 12/29/2024 2:46:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS396 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204782	.1844796	F .4786554	.0116604	.1935522	.1974817
Stddev	.0009721	.0017081	.0215431	.0005589	.0105339	.0092613
%RSD	4.746782	.9258904	4.500748	4.793447	5.442401	4.689706
#1	.0193558	.1829308	.4558329	.0122924	.1833994	.1886512
#2	.0210364	.1841964	.4814962	.0114580	.1928274	.1966732
#3	.0210424	.1863116	.4986372	.0112309	.2044297	.2071208

Elem	Li6707
Units	ppm
Avg	.0315776
Stddev	.0064187
%RSD	20.32671
#1	.0250324
#2	.0318385
#3	.0378618

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2044.804	25694.75	1950.494	1303.314	1848.113
Stddev	4.260	109.87	71.237	3.179	5.114
%RSD	.2083233	.4275875	3.652235	.2439202	.2767079
#1	2047.294	25592.00	2024.328	1302.258	1851.010
#2	2047.233	25810.56	1944.978	1306.886	1851.120
#3	2039.886	25681.69	1882.176	1300.797	1842.208

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165434BL Acquired: 12/29/2024 2:51:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS434 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002084	.0010072	-.003004	-.002745	-.001363	.0034539	-.000524
Stddev	.002775	.0006947	.001137	.003051	.002358	.0341674	.001025
%RSD	133.1848	68.97454	37.84628	111.1532	173.0269	989.2402	195.4256
#1	-.001445	.0004067	-.001707	-.006126	-.003578	-.024994	-.001540
#2	.000317	.0017681	-.003829	-.001915	-.001624	.041352	.000509
#3	-.005122	.0008469	-.003475	-.000195	.001115	-.005996	-.000541

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000128	-.000055	-.026464	-.000736	.0001030	-.009443	-.011193
Stddev	.000134	.000072	.024157	.001062	.0002618	.019345	.047227
%RSD	104.7029	130.9851	91.28216	144.3686	254.2932	204.8720	421.9206
#1	-.000215	-.000024	.001373	-.001295	.0002471	.006396	-.031784
#2	.000026	-.000137	-.038838	.000489	-.000199	-.031004	-.044629
#3	-.000195	-.000004	-.041928	-.001402	.000261	-.003720	.042833

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000959	-.065482	.0003811	-.000438	-.021054	-.010224	-.003206
Stddev	.000886	.117175	.0005826	.000350	.049687	.001494	.000723
%RSD	92.40568	178.9430	152.8697	80.02282	235.9977	14.61110	22.55366
#1	-.000421	.056626	.0000442	-.000824	.026990	-.009401	-.003487
#2	-.001981	-.177007	.0010538	-.000141	-.072236	-.009322	-.002385
#3	-.000474	-.076065	.0000453	-.000348	-.017917	-.011948	-.003747

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0524357	.0007691	-.002898	-.000197	.0047815	-.002520	-.002002
Stddev	.1407496	.0009598	.001648	.000371	.0052572	.000563	.000901
%RSD	268.4234	124.7894	56.84342	188.2533	109.9487	22.34853	45.02265
#1	-.087502	.0008400	-.004797	.000211	.0046198	-.002747	-.000971
#2	.193984	.0016915	-.002059	-.000290	-.000393	-.001879	-.002398
#3	.050825	-.000224	-.001840	-.000513	.010118	-.002934	-.002638

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165434BL Acquired: 12/29/2024 2:51:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS434 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0005064	.0001445	-.000692
Stddev	.0024321	.0002665	.002663
%RSD	480.3222	184.3636	384.5639
#1	.0017727	.0004461	-.002175
#2	.0020440	-.000059	.002382
#3	-.002298	.000047	-.002283

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2023.970	25483.85	1917.914	1290.053	1831.724
Stddev	3.522	53.73	11.560	6.854	1.339
%RSD	.1739905	.2108557	.6027432	.5313294	.0731124
#1	2024.216	25424.33	1930.249	1297.925	1833.204
#2	2027.363	25498.39	1907.328	1285.408	1831.372
#3	2020.333	25528.81	1916.165	1286.826	1830.595

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165434BS Acquired: 12/29/2024 2:55:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS434 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0164334	.0498400	.0153327	.0535539	.1038283	.3603779
Stddev	.0039946	.0041954	.0015784	.0041804	.0011046	.0258820
%RSD	24.30796	8.417829	10.29420	7.805885	1.063869	7.181901
#1	.0208596	.0513297	.0150866	.0556033	.1048586	.3444190
#2	.0130962	.0451029	.0170196	.0563141	.1039642	.3464743
#3	.0153445	.0530872	.0138918	.0487443	.1026620	.3902402

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3782532	.0097549	.0093794	9.583180	.0193517	.1006559
Stddev	.0023895	.0002219	.0001344	.052199	.0008541	.0001539
%RSD	.6317337	2.275135	1.432519	.5446963	4.413370	.1529066
#1	.3810117	.0095496	.0093146	9.569551	.0201442	.1005714
#2	.3769283	.0097246	.0095339	9.539147	.0184471	.1008335
#3	.3768196	.0099904	.0092898	9.640842	.0194638	.1005627

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0431720	.1910609	.0280423	9.739074	.0743727	.0194595
Stddev	.0050879	.0558743	.0015242	.153332	.0006963	.0015214
%RSD	11.78512	29.24425	5.435420	1.574403	.9362858	7.818112
#1	.0402665	.1315494	.0276516	9.905602	.0747417	.0184981
#2	.0402026	.1992359	.0267515	9.707886	.0748070	.0186668
#3	.0490468	.2423974	.0297239	9.603733	.0735695	.0212135

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.741416	.0788800	.1131157	9.076595	.0206637	F -.005137
Stddev	.080691	.0076187	.0006157	.072234	.0020934	.001851
%RSD	.9230862	9.658614	.5442873	.7958281	10.13093	36.02712
#1	8.707611	.0856632	.1129802	9.159044	.0226722	-.003671
#2	8.833511	.0706370	.1137878	9.024444	.0184946	-.007217
#3	8.683125	.0803400	.1125790	9.046297	.0208242	-.004523

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165434BS Acquired: 12/29/2024 2:55:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS434 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194195	.1739495	F .4641618	.0119337	.1871036	.1945887
Stddev	.0006099	.0086523	.0035111	.0042283	.0052367	.0011563
%RSD	3.140706	4.974015	.7564310	35.43171	2.798846	.5942167
#1	.0196316	.1645911	.4617923	.0129201	.1900371	.1951880
#2	.0187319	.1755993	.4681955	.0155816	.1810576	.1953224
#3	.0198951	.1816581	.4624975	.0072993	.1902160	.1932558

Elem	Li6707
Units	ppm
Avg	.0283772
Stddev	.0033052
%RSD	11.64740
#1	.0251865
#2	.0281590
#3	.0317861

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2077.328	26139.87	1970.618	1337.382	1877.209
Stddev	3.363	143.98	7.591	5.793	2.167
%RSD	.1619071	.5508073	.3851981	.4331517	.1154358
#1	2079.157	26180.99	1977.985	1337.645	1879.553
#2	2073.447	26258.82	1962.822	1343.039	1875.279
#3	2079.381	25979.80	1971.047	1331.462	1876.795

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165465BL Acquired: 12/29/2024 2:59:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS465 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002740	.0000377	-.002847	-.003725	-.002040	-.009924	-.002322
Stddev	.002631	.0014804	.002228	.000544	.003040	.011072	.000768
%RSD	96.02326	3927.563	78.25118	14.60139	149.0198	111.5700	33.08495
#1	-.000066	.0003076	-.003658	-.004095	-.004116	-.022181	-.002338
#2	-.002829	.0013646	-.004556	-.003100	-.003453	-.006944	-.003083
#3	-.005325	-.001559	-.000327	-.003979	.001449	-.000647	-.001546

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000114	-.000057	-.019327	.0003357	.0000079	-.008989	.0144926
Stddev	.000080	.000040	.013071	.0013293	.0002432	.000548	.0673391
%RSD	70.29506	70.08579	67.63356	395.9303	3064.494	6.091968	464.6439
#1	-.000204	-.000085	-.015913	.0018706	.0002826	-.008756	-.061577
#2	-.000049	-.000074	-.008301	-.000428	-.000180	-.009614	.038575
#3	-.000090	-.000011	-.033766	-.000436	-.000079	-.008595	.066479

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002190	-.009696	-.000061	-.000804	.0146897	-.014674	-.002676
Stddev	.001707	.077028	.000317	.001020	.0387114	.009951	.000560
%RSD	77.91891	794.4171	519.7791	126.9127	263.5285	67.81442	20.93019
#1	-.002556	.017720	-.000391	-.001104	.0387901	-.025979	-.002301
#2	-.003684	.049873	.000240	-.001641	.0352423	-.010804	-.003319
#3	-.000330	-.096682	-.000032	.000333	-.029963	-.007239	-.002406

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.030492	.0011814	-.002395	-.000223	.0025401	-.000918	-.003571
Stddev	.013134	.0010624	.001486	.000412	.0059615	.000968	.001227
%RSD	43.07571	89.92169	62.01939	184.5312	234.6922	105.4625	34.35712
#1	-.015877	.0011354	-.002293	-.000005	-.003282	-.000382	-.003391
#2	-.041309	.0022661	-.000964	-.000698	.008632	-.000336	-.002444
#3	-.034288	.0001429	-.003929	.000034	.002270	-.002035	-.004878

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165465BL Acquired: 12/29/2024 2:59:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS465 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0009438	-.000167	-.004045
Stddev	.0026228	.000400	.006521
%RSD	277.9043	239.1348	161.2078
#1	.0035303	-.000272	-.003279
#2	-.001714	-.000504	-.010916
#3	.001015	.000274	.002059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2090.874	26209.24	1977.458	1323.866	1887.689
Stddev	1.737	237.58	16.606	11.783	1.789
%RSD	.0830775	.9064711	.8397718	.8900441	.0947787
#1	2091.650	26405.18	1958.328	1331.576	1889.631
#2	2088.884	25944.99	1988.152	1310.303	1886.109
#3	2092.088	26277.55	1985.896	1329.720	1887.325

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: PB165465BS Acquired: 12/29/2024 3:03:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS465 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231373	.0487896	.0159731	.0574278	.1057745	.3955640
Stddev	.0022799	.0041671	.0022227	.0015260	.0036701	.0069812
%RSD	9.853691	8.540862	13.91495	2.657251	3.469703	1.764875
#1	.0257554	.0535346	.0178593	.0590721	.1040477	.4032974
#2	.0215895	.0457259	.0135227	.0571542	.1032863	.3897267
#3	.0220670	.0471081	.0165372	.0560571	.1099895	.3936678

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3898906	.0100723	.0094652	9.733947	.0204789	.1027179
Stddev	.0042903	.0001896	.0000926	.132769	.0010168	.0005387
%RSD	1.100376	1.881961	.9787097	1.363980	4.964938	.5244225
#1	.3907071	.0100478	.0093583	9.821738	.0213657	.1033397
#2	.3937139	.0102729	.0095221	9.798896	.0207018	.1023922
#3	.3852507	.0098961	.0095153	9.581207	.0193692	.1024219

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0377417	.1776266	.0273938	9.876404	.0765703	.0197843
Stddev	.0057495	.0427851	.0012196	.070710	.0003238	.0009033
%RSD	15.23392	24.08712	4.451954	.7159438	.4229287	4.565952
#1	.0443293	.2120098	.0278623	9.943987	.0763673	.0195406
#2	.0351624	.1911583	.0283096	9.882288	.0764000	.0207846
#3	.0337335	.1297118	.0260094	9.802936	.0769438	.0190279

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.980116	.0947935	.1168290	9.225723	.0198985	F -.002892
Stddev	.135240	.0041468	.0008592	.108041	.0022722	.002356
%RSD	1.505993	4.374537	.7354675	1.171089	11.41883	81.45647
#1	9.018699	.0992216	.1161496	9.229080	.0217003	-.003017
#2	9.091871	.0941573	.1177949	9.332046	.0173459	-.000476
#3	8.829777	.0910016	.1165424	9.116042	.0206491	-.005184

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: PB165465BS Acquired: 12/29/2024 3:03:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS465 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197885	.1872356	F .4736512	.0116941	.1928600	.1978052
Stddev	.0003037	.0036579	.0068325	.0006029	.0059600	.0018144
%RSD	1.534669	1.953622	1.442509	5.155277	3.090298	.9172825
#1	.0194493	.1886396	.4745173	.0112500	.1993685	.1993865
#2	.0200352	.1830837	.4800094	.0114519	.1915425	.1982048
#3	.0198810	.1899835	.4664271	.0123804	.1876691	.1958243

Elem	Li6707
Units	ppm
Avg	.0246227
Stddev	.0028611
%RSD	11.61968
#1	.0267463
#2	.0257527
#3	.0213692

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2081.990	26214.60	1974.006	1334.479	1879.880
Stddev	2.515	282.77	27.234	11.612	1.606
%RSD	.1208168	1.078686	1.379625	.8701558	.0854055
#1	2084.883	26511.23	1963.154	1344.622	1880.699
#2	2080.316	25948.09	1953.872	1321.813	1880.911
#3	2080.772	26184.48	2004.993	1337.001	1878.030

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165488BL Acquired: 12/29/2024 3:07:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS488 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006122	.0002238	-.004451	-.003246	-.001321	-.009422	-.000899
Stddev	.002122	.0048542	.002532	.004089	.002017	.019002	.001026
%RSD	34.66118	2168.674	56.87998	125.9572	152.6849	201.6751	114.0874
#1	-.006290	.0055807	-.006386	.000066	-.003393	-.026871	-.000607
#2	-.008155	-.003883	-.001586	-.001989	.000637	-.012219	-.000051
#3	-.003921	-.001026	-.005383	-.007816	-.001207	.010824	-.002039

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000055	-.000027	-.017188	-.000647	.0003976	-.011068	-.022115
Stddev	.000148	.000066	.007082	.000880	.0001442	.008232	.033679
%RSD	270.8018	243.4065	41.20147	136.1465	36.25373	74.37783	152.2889
#1	-.000214	-.000064	-.012938	-.001547	.0002479	-.001833	.006344
#2	.000080	-.000066	-.025364	-.000606	.0004097	-.013737	-.013392
#3	-.000031	.000049	-.013263	.000213	.0005354	-.017635	-.059298

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001894	-.026011	-.000522	.0004847	.0229791	-.004459	-.002219
Stddev	.001557	.114333	.000366	.0010023	.0355846	.009864	.000483
%RSD	82.24047	439.5608	70.14289	206.7907	154.8563	221.2256	21.75373
#1	-.000130	-.127379	-.000839	.0012063	.0065942	-.008402	-.001915
#2	-.003080	.097922	-.000606	.0009076	-.001461	.006767	-.001967
#3	-.002471	-.048576	-.000121	-.000660	.063805	-.011741	-.002776

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.079591	-.000028	-.004063	-.000019	-.002185	-.001325	-.001053
Stddev	.115364	.003455	.001604	.000578	.004329	.001404	.001279
%RSD	144.9460	12454.13	39.47697	3064.831	198.1781	105.9228	121.4663
#1	-.209661	-.003266	-.002766	-.000676	-.000705	-.001939	.000111
#2	-.039460	-.000426	-.003567	.000408	-.007060	-.002317	-.000848
#3	.010348	.003609	-.005857	.000212	.001211	.000281	-.002421

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: PB165488BL Acquired: 12/29/2024 3:07:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS488 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0022260	-.000104	-.006945
Stddev	.0045722	.000066	.000854
%RSD	205.4006	63.82885	12.29090
#1	-.002939	-.000097	-.007875
#2	.005756	-.000174	-.006198
#3	.003861	-.000041	-.006760

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2089.067	26080.60	1972.370	1322.057	1885.920
Stddev	.856	157.07	9.273	13.221	3.654
%RSD	.0409841	.6022548	.4701688	1.000058	.1937257
#1	2089.212	26188.97	1982.228	1325.803	1884.410
#2	2088.148	25900.46	1963.819	1307.366	1883.263
#3	2089.842	26152.36	1971.063	1333.001	1890.086

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165488BS Acquired: 12/29/2024 3:11:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS488 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238740	.0485024	.0148332	.0582887	.1073497	.4009119
Stddev	.0042882	.0045181	.0024680	.0026085	.0010864	.0184018
%RSD	17.96166	9.315232	16.63844	4.475145	1.012024	4.589976
#1	.0224015	.0511579	.0170983	.0612346	.1081108	.3809919
#2	.0287044	.0432856	.0151983	.0562723	.1078328	.4044674
#3	.0205161	.0510637	.0122030	.0573592	.1061055	.4172766

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3887606	.0099774	.0095157	9.793779	.0204490	.1028120
Stddev	.0054544	.0003208	.0000702	.102188	.0007799	.0005088
%RSD	1.403034	3.215054	.7376565	1.043402	3.814093	.4948639
#1	.3948920	.0098123	.0095492	9.911771	.0199091	.1026371
#2	.3869420	.0097728	.0094351	9.733793	.0213432	.1033852
#3	.3844478	.0103471	.0095629	9.735774	.0200947	.1024138

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0445658	.2307566	.0289556	10.05085	.0767432	.0173209
Stddev	.0085852	.0271931	.0027027	.05128	.0008207	.0015336
%RSD	19.26415	11.78434	9.333786	.5102155	1.069346	8.853888
#1	.0418962	.2521112	.0319263	10.07387	.0758431	.0170942
#2	.0376326	.2400155	.0282979	10.08658	.0774499	.0159133
#3	.0541687	.2001431	.0266424	9.99209	.0769365	.0189552

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.949352	.0998108	.1171617	9.428030	.0198170	F -.003027
Stddev	.065807	.0021471	.0010151	.288715	.0025790	.002110
%RSD	.7353223	2.151181	.8664260	3.062306	13.01416	69.71083
#1	9.016632	.0979566	.1168474	9.703082	.0168536	-.000593
#2	8.885125	.0993126	.1163408	9.453647	.0215535	-.004147
#3	8.946299	.1021632	.1182967	9.127359	.0210440	-.004342

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165488BS Acquired: 12/29/2024 3:11:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS488 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193268	.1803390	F .4732374	.0110670	.1952332	.1986391
Stddev	.0003826	.0069716	.0030520	.0009297	.0051201	.0031148
%RSD	1.979595	3.865810	.6449171	8.400251	2.622536	1.568092
#1	.0193852	.1869483	.4756479	.0108412	.2011380	.2018666
#2	.0189183	.1730543	.4698058	.0102710	.1925359	.1984002
#3	.0196767	.1810144	.4742586	.0120888	.1920258	.1956506

Elem	Li6707
Units	ppm
Avg	.0218573
Stddev	.0056830
%RSD	26.00050
#1	.0159890
#2	.0273349
#3	.0222479

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2090.002	26299.01	1978.458	1334.174	1887.591
Stddev	1.455	130.34	20.789	13.057	1.196
%RSD	.0696093	.4955896	1.050770	.9786838	.0633778
#1	2088.592	26151.46	1955.242	1320.674	1886.428
#2	2091.498	26347.13	1995.353	1346.738	1888.818
#3	2089.916	26398.44	1984.778	1335.112	1887.526

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-01 Acquired: 12/29/2024 3:15:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK41 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1463630	-.159005	1.750721	.2170751	.0715134	96.66161
Stddev	.0014979	.003098	.002090	.0037833	.0011440	.64102
%RSD	1.023379	1.948244	.1194022	1.742837	1.599681	.6631560
#1	.1473952	-.156970	1.749270	.2136024	.0717929	95.92183
#2	.1470489	-.157474	1.749777	.2211067	.0702556	97.05266
#3	.1446451	-.162570	1.753117	.2165162	.0724918	97.01034

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.057762	.0237052	.0078709	111.5652	.1279395	-.019296
Stddev	.008195	.0002112	.0001281	.7081	.0009696	.001804
%RSD	.7747332	.8908936	1.627389	.6347391	.7578370	9.346598
#1	1.048353	.0235958	.0077388	110.7643	.1290277	-.017239
#2	1.063334	.0239486	.0079946	112.1087	.1276232	-.020604
#3	1.061598	.0235711	.0078793	111.8224	.1271675	-.020046

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1776267	387.7172	9.780538	50.87502	.2028598	.0026568
Stddev	.0066732	3.1290	.082890	.38432	.0012479	.0007915
%RSD	3.756880	.8070215	.8474953	.7554271	.6151360	29.79292
#1	.1752947	384.1327	9.685335	50.44093	.2037453	.0019014
#2	.1851529	389.9021	9.836680	51.01218	.2034014	.0025889
#3	.1724323	389.1167	9.819600	51.17195	.2014326	.0034801

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5474760	.2511179	.8721306	11.81448	F 10.93557	.1442247
Stddev	.0543258	.0118338	.0024962	.21091	.02073	.0061901
%RSD	9.922961	4.712439	.2862138	1.785211	.1895219	4.291983
#1	.5364793	.2377476	.8750122	11.86317	10.95522	.1371678
#2	.4994898	.2602453	.8707442	11.99679	10.93756	.1467700
#3	.6064590	.2553607	.8706353	11.58348	10.91391	.1487364

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-01 Acquired: 12/29/2024 3:15:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK41 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079569	5.031465	13.18990	.0667018	1.001848	-.175852
Stddev	.0002509	.005408	.04843	.0029777	.006881	.001179
%RSD	3.153569	.1074736	.3671586	4.464251	.6868504	.6705879
#1	.0080842	5.030767	13.23847	.0656076	.994657	-.174504
#2	.0076678	5.026441	13.14161	.0700718	1.008371	-.176361
#3	.0081185	5.037188	13.18961	.0644260	1.002516	-.176691

Elem	Li6707
Units	ppm
Avg	.1097696
Stddev	.0013126
%RSD	1.195745
#1	.1082587
#2	.1104209
#3	.1106291

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2463.880	30856.37	2367.876	1566.336	1873.190
Stddev	3.041	88.48	7.297	2.543	1.025
%RSD	.1234049	.2867621	.3081746	.1623460	.0547024
#1	2466.259	30915.62	2367.453	1568.872	1872.036
#2	2464.927	30898.82	2375.376	1566.348	1873.993
#3	2460.454	30754.65	2360.800	1563.787	1873.541

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-02 Acquired: 12/29/2024 3:19:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK42 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1609571	-.054255	3.218585	.1055491	.0218032	92.52334	1.189512
Stddev	.0094211	.002626	.009483	.0070023	.0054283	.48909	.004664
%RSD	5.853174	4.841066	.2946431	6.634185	24.89685	.5286147	.3920891
#1	.1715301	-.054152	3.211205	.0975790	.0165843	93.04136	1.194895
#2	.1534534	-.056931	3.215268	.1107132	.0274191	92.45916	1.186682
#3	.1578878	-.051681	3.229281	.1083551	.0214063	92.06951	1.186959

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147774	.0089642	119.2024	.1515204	.0652965	.3020112	200.6600
Stddev	.0001312	.0000843	.4667	.0001728	.0008838	.0030193	.8855
%RSD	.8879263	.9402889	.3914880	.1140374	1.353503	.9997232	.4412860
#1	.0147976	.0088672	119.6259	.1513970	.0642770	.3000877	201.6823
#2	.0146372	.0090203	119.2791	.1517179	.0658448	.3054911	200.1645
#3	.0148973	.0090049	118.7021	.1514464	.0657677	.3004548	200.1332

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.89893	51.65427	.2550616	.0022932	.5314412	.2161816	1.253712
Stddev	.05511	.31893	.0008437	.0001797	.0207666	.0032596	.005949
%RSD	.4631894	.6174415	.3307656	7.834060	3.907592	1.507796	.4745366
#1	11.96167	51.78765	.2549160	.0023768	.5198137	.2157849	1.258474
#2	11.87677	51.88486	.2543002	.0020870	.5190931	.2131385	1.255619
#3	11.85834	51.29029	.2559686	.0024158	.5554167	.2196214	1.247043

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.34601	9.926209	.1073646	.0103826	5.279164	12.68114	.0806380
Stddev	.07696	.029015	.0013554	.0009085	.007010	.08570	.0016884
%RSD	.6782725	.2923062	1.262426	8.750666	.1327790	.6757963	2.093790
#1	11.43437	9.920543	.1081315	.0094690	5.279192	12.77804	.0796512
#2	11.30992	9.900445	.1081626	.0112860	5.272141	12.65007	.0796752
#3	11.29373	9.957639	.1057996	.0103927	5.286160	12.61532	.0825875

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-02 Acquired: 12/29/2024 3:19:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK42 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.042649	.0228593	.1084351
Stddev	.002620	.0007021	.0025922
%RSD	.2512596	3.071431	2.390568
#1	1.045087	.0231335	.1064635
#2	1.039879	.0220615	.1074705
#3	1.042982	.0233830	.1113714

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2543.235	31975.36	2405.487	1623.708	1834.017
Stddev	5.826	50.49	12.823	4.153	4.442
%RSD	.2290967	.1579182	.5330549	.2557738	.2422011
#1	2547.989	31925.97	2390.681	1618.952	1836.057
#2	2544.980	32026.89	2412.854	1625.549	1837.074
#3	2536.735	31973.22	2412.926	1626.622	1828.922

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-03 Acquired: 12/29/2024 3:23:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK43 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2090971	-.060112	4.889952	.1094327	.0241046	82.79550
Stddev	.0048623	.003274	.013658	.0107974	.0016515	.25071
%RSD	2.325356	5.447013	.2793016	9.866697	6.851177	.3028105
#1	.2123033	-.061326	4.874903	.1063858	.0235308	82.96748
#2	.2114854	-.062605	4.893392	.1004862	.0228167	82.50783
#3	.2035025	-.056404	4.901561	.1214262	.0259665	82.91119

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.234106	.0142652	.0119395	98.55484	.1412919	.0749064
Stddev	.004827	.0002334	.0000750	.20026	.0004429	.0008567
%RSD	.3911169	1.636136	.6284093	.2032003	.3134610	1.143727
#1	1.234893	.0144761	.0119547	98.73731	.1408676	.0754809
#2	1.228934	.0143050	.0120057	98.34058	.1412568	.0739217
#3	1.238491	.0140144	.0118580	98.58664	.1417513	.0753167

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4480507	198.3693	14.22448	36.17607	.2979263	.0040819
Stddev	.0104321	.6339	.06644	.16232	.0015779	.0008754
%RSD	2.328320	.3195539	.4670562	.4486825	.5296129	21.44662
#1	.4576663	198.9149	14.27478	36.28971	.2961105	.0039767
#2	.4369594	197.6739	14.14917	35.99018	.2987049	.0050052
#3	.4495263	198.5191	14.24949	36.24833	.2989636	.0032638

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4719113	.2140762	1.522498	9.801546	F 10.48362	.1084030
Stddev	.0268415	.0113357	.003184	.059100	.02555	.0021342
%RSD	5.687818	5.295192	.2090997	.6029694	.2437342	1.968739
#1	.4416346	.2009869	1.525647	9.734198	10.46603	.1075384
#2	.4813091	.2205672	1.519281	9.844762	10.51293	.1068368
#3	.4927902	.2206744	1.522566	9.825679	10.47190	.1108338

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-03 Acquired: 12/29/2024 3:23:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK43 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107109	4.577994	11.80004	.1217919	1.005226	.0124731
Stddev	.0002459	.010857	.04779	.0016316	.006471	.0006755
%RSD	2.296237	.2371581	.4049588	1.339699	.6437224	5.416013
#1	.0105139	4.567298	11.84453	.1207758	1.012324	.0125366
#2	.0106323	4.589006	11.80607	.1236740	.999656	.0131146
#3	.0109866	4.577678	11.74953	.1209260	1.003697	.0117680

Elem	Li6707
Units	ppm
Avg	.0912714
Stddev	.0021907
%RSD	2.400182
#1	.0887531
#2	.0923231
#3	.0927378

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2619.805	32942.47	2491.205	1674.344	1838.591
Stddev	7.334	238.52	16.335	7.045	1.699
%RSD	.2799382	.7240364	.6557240	.4207868	.0924175
#1	2619.332	32796.94	2472.746	1667.573	1839.849
#2	2627.363	33217.73	2497.073	1681.635	1839.265
#3	2612.719	32812.74	2503.795	1673.823	1836.658

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-04 Acquired: 12/29/2024 3:27:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2673423	-.074750	5.102137	.1409318	.0354449	88.17917
Stddev	.0029061	.002570	.034112	.0052454	.0007311	.29048
%RSD	1.087046	3.438412	.6685827	3.721908	2.062711	.3294167
#1	.2659277	-.077306	5.073985	.1450678	.0355408	87.90912
#2	.2654143	-.074776	5.140072	.1426957	.0346706	88.48648
#3	.2706849	-.072166	5.092356	.1350319	.0361233	88.14190

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.300262	.0165473	.0134803	93.73716	.1670647	.0809681
Stddev	.003412	.0000581	.0001955	.19176	.0007291	.0009976
%RSD	.2623735	.3513175	1.450089	.2045758	.4364113	1.232124
#1	1.296355	.0164826	.0132888	93.52220	.1673418	.0810775
#2	1.301781	.0165950	.0136796	93.89065	.1662376	.0799203
#3	1.302650	.0165645	.0134726	93.79862	.1676145	.0819066

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4924001	244.0990	16.91175	33.08288	.3051263	.0057162
Stddev	.0070126	1.0398	.05925	.17851	.0025519	.0017593
%RSD	1.424172	.4259734	.3503564	.5395760	.8363588	30.77799
#1	.4857439	243.2162	16.84762	32.88719	.3044394	.0037306
#2	.4997217	245.2452	16.96446	33.23680	.3079514	.0070810
#3	.4917347	243.8357	16.92316	33.12466	.3029881	.0063370

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5095922	.2277521	1.421525	8.336619	F 11.77534	.1106744
Stddev	.0406066	.0073975	.007341	.089212	.08637	.0012162
%RSD	7.968456	3.248052	.5163971	1.070126	.7335102	1.098890
#1	.5353766	.2277842	1.415012	8.235916	11.71077	.1103761
#2	.5306157	.2203387	1.429480	8.368181	11.87345	.1096352
#3	.4627844	.2351336	1.420083	8.405760	11.74179	.1120120

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-04 Acquired: 12/29/2024 3:27:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099988	3.779626	12.47545	.0934257	.7972505	-.044572
Stddev	.0002287	.031655	.14079	.0004533	.0073617	.000835
%RSD	2.287224	.8375193	1.128516	.4852495	.9233900	1.872970
#1	.0097363	3.757577	12.49175	.0930157	.8055967	-.043897
#2	.0101046	3.815898	12.60738	.0939126	.7916808	-.045506
#3	.0101554	3.765404	12.32722	.0933487	.7944740	-.044313

Elem	Li6707
Units	ppm
Avg	.0907086
Stddev	.0023002
%RSD	2.535858
#1	.0894765
#2	.0933624
#3	.0892869

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2676.787	33631.47	2565.624	1714.341	1823.218
Stddev	6.548	188.38	19.584	10.114	7.564
%RSD	.2446392	.5601333	.7633054	.5899759	.4148467
#1	2683.903	33664.42	2562.852	1725.010	1827.423
#2	2671.015	33801.20	2547.575	1713.121	1814.487
#3	2675.441	33428.79	2586.446	1704.892	1827.745

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-05 Acquired: 12/29/2024 3:31:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2631522	-.072265	4.812199	.1344588	.0348988	84.24845
Stddev	.0020108	.002105	.041123	.0015702	.0022626	.22466
%RSD	.7641210	2.912702	.8545639	1.167768	6.483388	.2666636
#1	.2636417	-.071740	4.787614	.1330715	.0362970	84.46750
#2	.2609418	-.074583	4.789308	.1341416	.0322883	84.25928
#3	.2648730	-.070473	4.859674	.1361634	.0361110	84.01857

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.244073	.0157609	.0127578	89.66916	.1602416	.0750555
Stddev	.003864	.0001424	.0002018	.27598	.0010133	.0024676
%RSD	.3105998	.9035764	1.581701	.3077809	.6323403	3.287659
#1	1.248044	.0156367	.0125957	89.97251	.1613495	.0733538
#2	1.243850	.0157297	.0126938	89.60204	.1600137	.0739271
#3	1.240326	.0159163	.0129838	89.43292	.1593618	.0778855

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4675949	233.1865	16.15060	31.68008	.2884471	.0036638
Stddev	.0047300	.8633	.04944	.01863	.0021385	.0002402
%RSD	1.011560	.3702188	.3061104	.0588164	.7413917	6.555664
#1	.4701044	234.0571	16.20456	31.65989	.2880622	.0033936
#2	.4621389	233.1718	16.13976	31.69661	.2865272	.0037447
#3	.4705412	232.3307	16.10748	31.68375	.2907519	.0038530

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4833822	.2075009	1.368308	7.985648	F 11.10022	.1064656
Stddev	.0132216	.0016021	.005798	.020453	.08729	.0026546
%RSD	2.735234	.7720923	.4237497	.2561270	.7864245	2.493427
#1	.4950739	.2083464	1.361710	7.995138	11.06294	.1093965
#2	.4860387	.2056532	1.372591	7.962174	11.03776	.1057774
#3	.4690340	.2085031	1.370623	7.999633	11.19997	.1042228

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-05 Acquired: 12/29/2024 3:31:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091290	3.573437	12.03966	.0898828	.7657725	-.041837
Stddev	.0002629	.019315	.06816	.0029276	.0049131	.000582
%RSD	2.879826	.5405035	.5661357	3.257168	.6415874	1.391595
#1	.0092769	3.563472	11.98159	.0865267	.7712826	-.042482
#2	.0092846	3.561140	12.11470	.0912092	.7618479	-.041351
#3	.0088254	3.595699	12.02268	.0919124	.7641870	-.041678

Elem	Li6707
Units	ppm
Avg	.0840984
Stddev	.0011809
%RSD	1.404228
#1	.0838947
#2	.0853679
#3	.0830326

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2786.447	34997.50	2650.531	1777.773	1924.413
Stddev	22.041	142.47	3.708	4.380	17.569
%RSD	.7910240	.4070801	.1398882	.2464006	.9129776
#1	2798.561	34878.74	2654.350	1777.189	1933.373
#2	2799.775	35155.46	2646.946	1782.416	1935.696
#3	2761.006	34958.28	2650.298	1773.713	1904.170

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-04LX5 Acquired: 12/29/2024 3:35:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0464693	-.019081	.9925688	.0248409	.0038491	21.06240	.3109699
Stddev	.0040397	.002527	.0029276	.0029436	.0025587	.28574	.0038932
%RSD	8.693207	13.24421	.2949533	11.84986	66.47616	1.356614	1.251966
#1	.0487994	-.018423	.9936640	.0251168	.0032234	20.95343	.3096859
#2	.0488037	-.021872	.9892515	.0276367	.0016612	21.38659	.3153430
#3	.0418047	-.016948	.9947909	.0217690	.0066626	20.84719	.3078809

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042404	.0023648	22.52935	.0394492	.0209306	.1150000	58.92649
Stddev	.0000417	.0000520	.28795	.0007606	.0001879	.0010976	.70646
%RSD	.9824295	2.197086	1.278097	1.927984	.8978205	.9544261	1.198888
#1	.0042522	.0023620	22.45201	.0394167	.0207844	.1162504	58.73882
#2	.0042748	.0023143	22.84807	.0387054	.0208647	.1141957	59.70784
#3	.0041940	.0024181	22.28797	.0402255	.0211426	.1145539	58.33282

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.111245	7.934428	.0586778	.0015517	.1111036	.0401030	.3451110
Stddev	.059050	.094569	.0000461	.0013524	.0131948	.0100648	.0005994
%RSD	1.436309	1.191878	.0784986	87.15896	11.87608	25.09743	.1736865
#1	4.096220	7.947379	.0587081	.0026974	.1012561	.0516092	.3457720
#2	4.176356	8.021854	.0587006	.0018978	.1260957	.0357661	.3446027
#3	4.061159	7.834052	.0586248	.0000598	.1059590	.0329336	.3449583

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.966092	2.293109	.0242216	.0022392	.7395020	3.087831	.0178751
Stddev	.059311	.008331	.0027475	.0000927	.0047256	.043633	.0020149
%RSD	3.016716	.3633129	11.34316	4.137721	.6390287	1.413051	11.27220
#1	1.947658	2.299416	.0258937	.0021379	.7433728	3.071995	.0194570
#2	1.918186	2.283665	.0210506	.0023196	.7408974	3.137170	.0185617
#3	2.032431	2.296247	.0257204	.0022602	.7342358	3.054327	.0156066

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-04LX5 Acquired: 12/29/2024 3:35:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1932578	-.011185	.0166581
Stddev	.0015902	.000208	.0045898
%RSD	.8228236	1.859761	27.55273
#1	.1915092	-.011043	.0119791
#2	.1946174	-.011424	.0168421
#3	.1936467	-.011088	.0211532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2252.215	28280.44	2096.856	1437.585	1909.225
Stddev	4.154	130.55	31.523	4.573	3.878
%RSD	.1844286	.4616101	1.503326	.3181117	.2031085
#1	2247.446	28263.69	2105.578	1433.762	1906.210
#2	2254.150	28159.07	2061.891	1436.342	1913.599
#3	2255.047	28418.55	2123.099	1442.651	1907.866

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV034 Acquired: 12/29/2024 3:39:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV034 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.081333	4.734131	24.27078	4.964531	4.888245	399.6703	9.956456
Stddev	.013900	.018855	.07353	.014227	.013391	1.5963	.039367
%RSD	.2735598	.3982682	.3029383	.2865652	.2739350	.3994045	.3953899
#1	5.068769	4.730687	24.23577	4.967039	4.891282	400.2392	9.982948
#2	5.078965	4.717235	24.22131	4.949217	4.873597	397.8675	9.911220
#3	5.096266	4.754469	24.35527	4.977337	4.899857	400.9042	9.975200

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5126186	2.448403	399.6341	15.15410	2.357587	14.61847	405.0345
Stddev	.0051099	.006010	1.8443	.01151	.005516	.03998	2.0948
%RSD	.9968229	.2454818	.4615012	.0759577	.2339615	.2735189	.5171932
#1	.5163274	2.446850	400.7524	15.15522	2.353196	14.61760	405.9831
#2	.5067899	2.443321	397.5053	15.16502	2.355786	14.57892	402.6332
#3	.5147384	2.455037	400.6445	15.14208	2.363778	14.65888	406.4872

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.61115	400.0810	2.460042	1.252059	410.6452	2.451951	14.60519
Stddev	.07169	1.9204	.004559	.000492	3.4242	.018874	.05025
%RSD	.4906535	.4800086	.1853272	.0392938	.8338516	.7697650	.3440402
#1	14.63436	400.5890	2.457062	1.251523	411.7206	2.470586	14.57921
#2	14.53073	397.9576	2.457773	1.252164	406.8124	2.432847	14.66311
#3	14.66836	401.6963	2.465290	1.252490	413.4026	2.452421	14.57325

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	149.8953	4.917804	4.940079	4.865406	4.967343	4.850763	4.929492
Stddev	.6542	.008984	.041406	.006421	.028941	.035647	.009600
%RSD	.4364302	.1826808	.8381636	.1319822	.5826264	.7348828	.1947389
#1	150.2134	4.915485	4.968893	4.872597	4.933946	4.872352	4.923625
#2	149.1428	4.910206	4.892630	4.860243	4.983021	4.809617	4.924281
#3	150.3295	4.927720	4.958715	4.863380	4.985063	4.870319	4.940571

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV034 Acquired: 12/29/2024 3:39:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV034 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.955387	4.621376	5.037160
Stddev	.024140	.012680	.013833
%RSD	.4871391	.2743802	.2746167
#1	4.971407	4.632303	5.037197
#2	4.927623	4.607472	5.023308
#3	4.967133	4.624353	5.050974

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1858.863	23982.27	1909.705	1172.094	1567.019
Stddev	5.574	81.98	15.276	7.507	4.599
%RSD	.2998724	.3418173	.7999082	.6404405	.2934761
#1	1854.343	23939.97	1896.191	1171.125	1567.007
#2	1865.092	23930.09	1926.279	1165.119	1571.623
#3	1857.156	24076.76	1906.645	1180.038	1562.426

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB034 Acquired: 12/29/2024 3:42:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB034 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035315	.0007507	.0022614	.0006241	-.003852	-.015481	-.000072
Stddev	.0021031	.0044909	.0007566	.0026328	.002584	.013963	.000156
%RSD	59.55439	598.2124	33.45536	421.8649	67.09361	90.19407	217.2609
#1	.0038830	-.002466	.0031070	-.002371	-.001159	-.025366	-.000247
#2	.0012747	-.001164	.0016487	.002574	-.006312	-.021570	.000052
#3	.0054367	.005882	.0020285	.001669	-.004085	.000492	-.000021

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000554	.0000284	-.009293	-.000309	.0000861	-.004569	-.006787
Stddev	.0000188	.0001484	.012208	.001157	.0006588	.005000	.005915
%RSD	33.91822	522.3901	131.3627	374.0911	765.2868	109.4242	87.14691
#1	.0000400	.0001035	.002072	.001026	-.000423	-.008906	-.012184
#2	.0000764	.0001242	-.007754	-.000942	.000830	.000899	-.000464
#3	.0000498	-.000142	-.022198	-.001012	-.000148	-.005700	-.007713

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001400	-.109393	.0001128	.0001483	.0826512	-.011704	.0026223
Stddev	.000807	.078998	.0006616	.0012458	.0144417	.011838	.0011776
%RSD	57.62051	72.21472	586.6996	840.1075	17.47304	101.1451	44.90806
#1	-.001662	-.122722	.0004430	.0001632	.0800598	-.020282	.0035297
#2	-.000495	-.180878	.0005442	-.001105	.0696806	.001802	.0030455
#3	-.002044	-.024579	-.000649	.001387	.0982131	-.016631	.0012915

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0751523	-.000284	.0104587	.0001486	.0016780	.0003263	-.000291
Stddev	.2437157	.002704	.0003130	.0003991	.0005909	.0005378	.000979
%RSD	324.2956	953.7824	2.992604	268.6448	35.21307	164.8207	336.3375
#1	-.186791	-.002194	.0103842	-.000241	.0023303	-.000244	.000501
#2	.117037	-.001467	.0101896	.000131	.0011785	.000399	.000012
#3	.295212	.002811	.0108022	.000556	.0015253	.000824	-.001385

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB034 Acquired: 12/29/2024 3:42:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB034 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0030903	-.000113	.0116582
Stddev	.0016416	.000337	.0020129
%RSD	53.12149	299.4899	17.26594
#1	.0017138	.000271	.0125964
#2	.0049071	-.000247	.0093475
#3	.0026499	-.000362	.0130308

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2032.501	25499.19	1919.163	1296.751	1832.266
Stddev	9.816	899.91	22.460	41.985	10.221
%RSD	.4829525	3.529171	1.170304	3.237723	.5578609
#1	2032.660	26034.12	1944.852	1318.934	1830.143
#2	2022.607	26003.23	1909.405	1322.991	1823.273
#3	2042.237	24460.21	1903.233	1248.327	1843.382

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-06 Acquired: 12/29/2024 3:46:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3419226	-.002701	4.834845	.2774898	.1819826	88.61579
Stddev	.0031284	.004944	.010647	.0018925	.0009987	.22133
%RSD	.9149498	183.0712	.2202175	.6820101	.5487872	.2497616
#1	.3447169	-.001157	4.830942	.2781587	.1808317	88.76131
#2	.3385428	-.008232	4.826700	.2753537	.1826208	88.72497
#3	.3425083	.001288	4.846893	.2789570	.1824954	88.36108

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.303417	.0928353	.1058123	90.78350	.4837573	1.030202
Stddev	.010137	.0004601	.0004143	.15136	.0011741	.002414
%RSD	.2355607	.4955774	.3915586	.1667208	.2427030	.2343327
#1	4.308268	.0933550	.1060378	90.71997	.4834214	1.032151
#2	4.310218	.0926705	.1053342	90.95626	.4827878	1.027502
#3	4.291766	.0924803	.1060650	90.67426	.4850627	1.030955

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8492089	237.2452	17.06947	32.09725	1.245821	.0595937
Stddev	.0042569	.3274	.03467	.08572	.003160	.0009467
%RSD	.5012787	.1379989	.2031300	.2670647	.2536433	1.588583
#1	.8447464	237.2452	17.09409	32.10019	1.248102	.0601110
#2	.8532251	237.5727	17.08450	32.01009	1.242214	.0601691
#3	.8496552	236.9179	17.02981	32.18146	1.247148	.0585011

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5244464	.9958298	2.115370	8.166533	F 11.06142	.1108611
Stddev	.0070002	.0073353	.004873	.164837	.02494	.0016864
%RSD	1.334769	.7366050	.2303389	2.018447	.2254766	1.521159
#1	.5207566	1.000975	2.120502	8.242183	11.08188	.1093626
#2	.5325195	.999084	2.110807	8.279966	11.03363	.1105335
#3	.5200630	.987430	2.114800	7.977450	11.06874	.1126872

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-06 Acquired: 12/29/2024 3:46:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092201	3.534575	12.13086	.0914454	.7719896	-.043234
Stddev	.0003758	.007416	.02323	.0007566	.0028840	.000562
%RSD	4.076235	.2098258	.1915117	.8274194	.3735811	1.299851
#1	.0091288	3.542934	12.15103	.0911751	.7717243	-.042730
#2	.0096332	3.532008	12.13609	.0923001	.7749970	-.043132
#3	.0088983	3.528783	12.10546	.0908610	.7692474	-.043840

Elem	Li6707
Units	ppm
Avg	.0887708
Stddev	.0027367
%RSD	3.082848
#1	.0863840
#2	.0881707
#3	.0917577

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2691.451	33909.39	2567.810	1715.277	1868.151
Stddev	3.120	108.18	7.049	6.310	4.444
%RSD	.1159272	.3190325	.2745033	.3678964	.2378762
#1	2691.899	33895.83	2559.827	1710.113	1867.632
#2	2694.324	34023.72	2573.176	1722.311	1872.831
#3	2688.132	33808.63	2570.427	1713.407	1863.989

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-07 Acquired: 12/29/2024 3:50:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK45 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2179198	-.052832	3.346650	.1091996	.0262871	86.50454	1.101809
Stddev	.0047958	.000206	.007583	.0044730	.0028267	.74321	.010190
%RSD	2.200701	.3906478	.2265942	4.096170	10.75306	.8591554	.9248271
#1	.2156610	-.052598	3.347507	.1053363	.0256303	85.65154	1.090148
#2	.2146705	-.052986	3.338675	.1141001	.0238466	86.84943	1.106274
#3	.2234278	-.052913	3.353768	.1081626	.0293843	87.01265	1.109003

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149364	.0114701	97.51545	.1337284	.0868009	.3323914	204.8613
Stddev	.0000969	.0001925	.83255	.0015624	.0008228	.0052709	1.8166
%RSD	.6487224	1.678457	.8537601	1.168342	.9479230	1.585753	.8867435
#1	.0149510	.0116919	96.55422	.1353316	.0877507	.3265545	202.7642
#2	.0148331	.0113453	97.98285	.1322103	.0863078	.3368033	205.9487
#3	.0150252	.0113733	98.00926	.1336435	.0863441	.3338165	205.8711

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.53242	31.37636	.2474038	.0028447	.5021671	.2109354	1.094999
Stddev	.15517	.27931	.0014008	.0008894	.0050990	.0068588	.002031
%RSD	.9989787	.8901772	.5662158	31.26388	1.015402	3.251615	.1855196
#1	15.35325	31.07550	.2481181	.0018180	.4977122	.2179697	1.096005
#2	15.62075	31.62741	.2457898	.0033754	.5077285	.2105697	1.092661
#3	15.62325	31.42617	.2483036	.0033408	.5010606	.2042668	1.096332

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.155901	8.401602	.1092126	.0083779	3.734407	11.08860	.0790667
Stddev	.071233	.019714	.0027871	.0002673	.004315	.01595	.0015037
%RSD	.8733866	.2346466	2.551949	3.190199	.1155506	.1438611	1.901757
#1	8.077605	8.391977	.1061714	.0086681	3.729846	11.07204	.0792196
#2	8.216875	8.388549	.1116448	.0081419	3.734952	11.08989	.0774925
#3	8.173222	8.424280	.1098216	.0083237	3.738424	11.10387	.0804881

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-07 Acquired: 12/29/2024 3:50:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK45 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8312728	-.001274	.0880719
Stddev	.0036788	.001384	.0021849
%RSD	.4425480	108.6205	2.480858
#1	.8270688	-.000024	.0857038
#2	.8328471	-.002762	.0900097
#3	.8339025	-.001037	.0885022

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2763.483	34915.85	2637.642	1770.455	1810.196
Stddev	6.686	151.94	6.283	3.491	3.905
%RSD	.2419418	.4351487	.2381960	.1971761	.2157159
#1	2770.760	34935.48	2643.092	1770.276	1813.463
#2	2762.077	34755.05	2630.770	1767.057	1811.252
#3	2757.611	35057.01	2639.062	1774.032	1805.871

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-08 Acquired: 12/29/2024 3:54:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK46 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2063577	-.055498	2.139523	.1028243	.0237047	79.64315	1.058728
Stddev	.0014122	.004493	.007212	.0019489	.0046387	.15319	.002960
%RSD	.6843323	8.094861	.3370617	1.895318	19.56883	.1923437	.2795935
#1	.2065705	-.051377	2.145744	.1042525	.0190125	79.47430	1.055463
#2	.2048511	-.054831	2.131618	.1006041	.0238136	79.68194	1.059482
#3	.2076513	-.060287	2.141205	.1036162	.0282880	79.77322	1.061238

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151658	.0085437	143.0220	.1159402	.0680313	.3212645	201.1998
Stddev	.0001078	.0001277	.4239	.0004976	.0009424	.0056887	.9033
%RSD	.7108454	1.495293	.2963733	.4292146	1.385198	1.770734	.4489600
#1	.0152047	.0084610	142.6322	.1164849	.0677516	.3151691	200.1567
#2	.0150440	.0084794	142.9605	.1158260	.0672605	.3221919	201.7141
#3	.0152488	.0086909	143.4733	.1155095	.0690819	.3264326	201.7284

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.01839	34.75360	.2037214	.0032607	.6335414	.1945763	.9436590
Stddev	.03911	.12321	.0020491	.0007434	.0038935	.0013275	.0057749
%RSD	.3254589	.3545347	1.005838	22.79760	.6145616	.6822536	.6119735
#1	11.97441	34.62839	.2035405	.0024674	.6292871	.1930711	.9407592
#2	12.03148	34.75769	.2017687	.0039412	.6369275	.1955800	.9503092
#3	12.04928	34.87471	.2058549	.0033734	.6344095	.1950777	.9399087

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.080457	7.909462	.1261234	.0081072	4.618072	10.97524	.0696353
Stddev	.184960	.014242	.0019272	.0002553	.024768	.06343	.0013933
%RSD	2.036901	.1800657	1.527985	3.148878	.5363248	.5778973	2.000828
#1	8.889774	7.903937	.1245408	.0078394	4.600536	10.95052	.0711619
#2	9.092490	7.898810	.1282695	.0083478	4.607274	10.92791	.0684322
#3	9.259106	7.925639	.1255600	.0081342	4.646406	11.04731	.0693118

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-08 Acquired: 12/29/2024 3:54:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK46 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9389791	.0955469	.0915708
Stddev	.0048211	.0018667	.0019350
%RSD	.5134361	1.953683	2.113166
#1	.9389282	.0944733	.0896372
#2	.9341836	.0944651	.0915679
#3	.9438253	.0977023	.0935073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2562.546	32298.77	2481.097	1639.798	1797.650
Stddev	3.563	118.91	6.127	10.613	2.795
%RSD	.1390453	.3681529	.2469637	.6472161	.1555080
#1	2558.560	32209.11	2480.546	1642.343	1794.525
#2	2563.656	32253.55	2487.482	1628.144	1799.914
#3	2565.422	32433.66	2475.264	1648.907	1798.511

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-09 Acquired: 12/29/2024 3:58:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1685342	-.043071	1.439818	.0947027	.0188119	80.94927	1.024450
Stddev	.0040457	.001591	.001540	.0027720	.0054411	.34117	.003188
%RSD	2.400509	3.694858	.1069716	2.927015	28.92386	.4214646	.3111462
#1	.1727391	-.043003	1.441069	.0935893	.0161332	80.99527	1.024165
#2	.1681942	-.041515	1.438098	.0926605	.0250730	80.58744	1.021414
#3	.1646692	-.044696	1.440287	.0978582	.0152294	81.26512	1.027770

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137889	.0071502	189.3699	.1069087	.0817532	.2857009	189.2688
Stddev	.0001501	.0001820	.9691	.0008975	.0000886	.0031199	.6702
%RSD	1.088437	2.545108	.5117600	.8395009	.1084105	1.092008	.3541108
#1	.0139470	.0071591	189.6495	.1058760	.0816646	.2866466	189.3827
#2	.0136483	.0073276	188.2918	.1073497	.0817530	.2822175	188.5490
#3	.0137715	.0069640	190.1686	.1075003	.0818419	.2882384	189.8748

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.24017	38.48906	.1847396	.0024171	.5732466	.1777443	.7654455
Stddev	.03367	.20389	.0001767	.0012131	.0059310	.0165368	.0025696
%RSD	.2542969	.5297265	.0956588	50.18934	1.034627	9.303690	.3356978
#1	13.25675	38.67974	.1848918	.0012056	.5796551	.1968253	.7678759
#2	13.20143	38.27414	.1847811	.0036318	.5679507	.1675702	.7657044
#3	13.26233	38.51331	.1845458	.0024137	.5721340	.1688374	.7627563

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.366595	7.479805	.1076790	.0076321	2.973114	10.71574	.0554558
Stddev	.048985	.023039	.0028876	.0010022	.013924	.13311	.0010637
%RSD	.5229805	.3080166	2.681679	13.13169	.4683211	1.242220	1.918062
#1	9.355371	7.465174	.1052821	.0065685	2.957360	10.75302	.0542286
#2	9.324196	7.467879	.1108848	.0085588	2.978212	10.56796	.0561135
#3	9.420219	7.506362	.1068702	.0077688	2.983770	10.82624	.0560253

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-09 Acquired: 12/29/2024 3:58:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK47 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7750058	.1157227	.0896467
Stddev	.0014781	.0025098	.0013037
%RSD	.1907235	2.168813	1.454246
#1	.7742279	.1161919	.0903176
#2	.7740791	.1130114	.0881442
#3	.7767104	.1179648	.0904783

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2576.550	32588.49	2504.111	1645.082	1786.671
Stddev	5.379	172.85	22.109	6.712	3.814
%RSD	.2087547	.5303877	.8829007	.4080246	.2134513
#1	2578.767	32710.84	2496.498	1650.923	1791.059
#2	2570.417	32390.75	2529.021	1637.750	1784.153
#3	2580.466	32663.86	2486.815	1646.574	1784.801

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-10 Acquired: 12/29/2024 4:02:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK48 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0323348	.0144719	.2199476	-.004709	-.017346	26.54638
Stddev	.0061215	.0068700	.0034815	.001874	.001816	.05310
%RSD	18.93175	47.47165	1.582891	39.79419	10.47226	.2000458
#1	.0252770	.0168239	.2212204	-.003193	-.016578	26.48525
#2	.0362005	.0067347	.2160088	-.006804	-.016039	26.57280
#3	.0355270	.0198570	.2226137	-.004129	-.019420	26.58110

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0754424	.0061752	.0025524	F 1246.911	.0545162	.0758249
Stddev	.0006649	.0003882	.0001811	.442	.0008747	.0004054
%RSD	.8812646	6.286716	7.093700	.0354613	1.604558	.5346359
#1	.0748322	.0058543	.0023437	1246.543	.0548455	.0754043
#2	.0753441	.0060645	.0026457	1247.401	.0535247	.0758573
#3	.0761509	.0066067	.0026677	1246.789	.0551786	.0762131

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0492490	83.18088	5.193891	668.3116	.1005192	.0015972
Stddev	.0012612	.25845	.014278	1.4098	.0001425	.0009363
%RSD	2.560846	.3107119	.2748907	.2109476	.1417418	58.62333
#1	.0478358	82.88266	5.180475	668.4888	.1004238	.0025599
#2	.0496511	83.33990	5.192301	669.6244	.1006829	.0006896
#3	.0502601	83.32008	5.208897	666.8216	.1004507	.0015422

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.768701	.0515257	.5015344	15.37752	1.827439	.1898552
Stddev	.020388	.0083751	.0021027	.08872	.001472	.0019858
%RSD	1.152731	16.25426	.4192498	.5769257	.0805757	1.045957
#1	1.777427	.0598716	.5022075	15.47604	1.825740	.1916756
#2	1.745402	.0515838	.4991775	15.30396	1.828220	.1877375
#3	1.783275	.0431217	.5032181	15.35255	1.828355	.1901525

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-10 Acquired: 12/29/2024 4:02:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK48 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000571	30.63787	6.364922	.0202087	.0575181	.6203872
Stddev	.000772	.09822	.012896	.0013382	.0043678	.0025001
%RSD	135.1402	.3205700	.2026100	6.621676	7.593745	.4029975
#1	.000085	30.52762	6.378073	.0198432	.0565377	.6208862
#2	-.000376	30.66997	6.364397	.0216916	.0622928	.6176752
#3	-.001421	30.71602	6.352297	.0190912	.0537239	.6226002

Elem	Li6707
Units	ppm
Avg	.0897855
Stddev	.0021114
%RSD	2.351631
#1	.0880523
#2	.0921370
#3	.0891672

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2039.899	26162.82	2093.242	1303.033	1509.032
Stddev	6.064	82.43	6.448	5.382	5.061
%RSD	.2972522	.3150486	.3080605	.4130186	.3354051
#1	2034.352	26101.03	2086.359	1299.116	1505.339
#2	2046.372	26256.41	2094.221	1309.170	1514.802
#3	2038.972	26131.02	2099.144	1300.814	1506.956

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-11 Acquired: 12/29/2024 4:06:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK49 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0325543	.0210511	.8141696	-.003616	-.023776	22.40412
Stddev	.0066461	.0017381	.0003021	.014710	.005998	.05418
%RSD	20.41551	8.256329	.0371091	406.7860	25.22708	.2418378
#1	.0289759	.0219793	.8138236	.011797	-.025823	22.46158
#2	.0284640	.0190460	.8143040	-.017505	-.017023	22.35396
#3	.0402228	.0221279	.8143812	-.005141	-.028484	22.39683

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1476691	.0061358	.0092774	F 1850.292	.0740492	.0708374
Stddev	.0001907	.0002000	.0002110	12.814	.0007722	.0014885
%RSD	.1291118	3.259972	2.274811	.6925650	1.042836	2.101271
#1	.1475652	.0063668	.0095169	1835.698	.0749408	.0699509
#2	.1475530	.0060237	.0091967	1855.474	.0735953	.0725559
#3	.1478891	.0060170	.0091187	1859.703	.0736115	.0700055

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0606459	94.62805	6.370674	F 1048.706	.0945866	.0010085
Stddev	.0141948	.20452	.012086	3.269	.0007573	.0018812
%RSD	23.40611	.2161339	.1897091	.3117091	.8005894	186.5321
#1	.0454850	94.83046	6.384179	1050.261	.0938412	-.000414
#2	.0736211	94.42147	6.366969	1050.907	.0953552	.000298
#3	.0628315	94.63223	6.360875	1044.950	.0945633	.003142

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.353899	.0411526	2.069327	11.86236	2.007568	.1772778
Stddev	.013631	.0085642	.009583	.04182	.002339	.0011972
%RSD	.5790710	20.81083	.4631179	.3525809	.1165135	.6753473
#1	2.350822	.0502929	2.080053	11.90926	2.004915	.1759371
#2	2.342071	.0333135	2.066321	11.84889	2.009334	.1782401
#3	2.368806	.0398513	2.061607	11.82894	2.008456	.1776563

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-11 Acquired: 12/29/2024 4:06:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK49 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000199	48.43142	7.122129	.0230828	.0936265	.7637709
Stddev	.0012978	.08910	.017692	.0025274	.0019186	.0022205
%RSD	6516.231	.1839743	.2484068	10.94939	2.049199	.2907319
#1	.0014522	48.33546	7.142480	.0217087	.0920099	.7658945
#2	-.000314	48.51154	7.113492	.0215402	.0931230	.7614647
#3	-.001078	48.44725	7.110414	.0259996	.0957467	.7639534

Elem	Li6707
Units	ppm
Avg	.0803086
Stddev	.0035462
%RSD	4.415759
#1	.0817974
#2	.0828678
#3	.0762607

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1966.271	25153.87	2030.526	1241.374	1436.262
Stddev	2.635	108.63	15.407	8.173	1.233
%RSD	.1340281	.4318692	.7587757	.6583900	.0858531
#1	1968.527	25047.93	2014.630	1232.079	1437.204
#2	1966.911	25265.00	2045.392	1247.435	1436.717
#3	1963.374	25148.69	2031.556	1244.609	1434.866

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-12 Acquired: 12/29/2024 4:10:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK50 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0416345	.0134415	2.645773	.0013340	-.018955	14.94570
Stddev	.0068427	.0036042	.007865	.0060342	.001671	.07152
%RSD	16.43514	26.81387	.2972835	452.3361	8.815827	.4785611
#1	.0491967	.0175585	2.636762	-.002606	-.017137	14.87805
#2	.0358703	.0119096	2.651264	.008281	-.019304	15.02055
#3	.0398367	.0108563	2.649292	-.001673	-.020424	14.93849

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1619912	.0067261	.0306431	F 2224.019	.0482448	.0578917
Stddev	.0016919	.0001545	.0002820	19.702	.0007019	.0011472
%RSD	1.044461	2.296992	.9201338	.8858789	1.454838	1.981646
#1	.1603858	.0067971	.0303234	2215.289	.0474355	.0571629
#2	.1637581	.0065488	.0308564	2246.578	.0486120	.0572981
#3	.1618298	.0068323	.0307495	2210.191	.0486870	.0592141

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0327143	122.0702	7.691195	F 1252.918	.0885150	.0019171
Stddev	.0065132	.4706	.038395	4.991	.0005643	.0011149
%RSD	19.90934	.3855387	.4992076	.3983650	.6375098	58.15236
#1	.0401744	121.5268	7.646987	1247.585	.0891544	.0008129
#2	.0298099	122.3366	7.716210	1257.477	.0883036	.0030423
#3	.0281585	122.3473	7.710386	1253.692	.0880869	.0018963

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.716993	.0557028	5.575534	9.092567	1.096621	.1665616
Stddev	.036514	.0054680	.010633	.065951	.008256	.0022026
%RSD	1.343929	9.816326	.1907017	.7253262	.7528667	1.322398
#1	2.709479	.0494085	5.586262	9.167501	1.087471	.1641145
#2	2.756680	.0584204	5.575342	9.043346	1.098878	.1671850
#3	2.684820	.0592797	5.564999	9.066854	1.103514	.1683853

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-12 Acquired: 12/29/2024 4:10:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK50 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022411	98.19683	6.149214	.0259046	.0017310	.7440101
Stddev	.0003226	.59982	.005693	.0009715	.0033611	.0043130
%RSD	14.39524	.6108381	.0925862	3.750264	194.1777	.5797013
#1	.0021582	97.54371	6.145922	.0260372	-.001607	.7416545
#2	.0019680	98.32374	6.145932	.0268029	.005115	.7489880
#3	.0025971	98.72305	6.155788	.0248736	.001685	.7413877

Elem	Li6707
Units	ppm
Avg	.0656358
Stddev	.0012385
%RSD	1.886918
#1	.0642058
#2	.0663369
#3	.0663648

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1908.976	24490.87	1995.699	1206.517	1397.021
Stddev	4.707	73.42	6.650	5.482	2.791
%RSD	.2465773	.2997812	.3331927	.4543502	.1998118
#1	1911.933	24478.04	1997.607	1202.036	1399.877
#2	1903.548	24424.71	1988.305	1204.886	1394.299
#3	1911.447	24569.86	2001.187	1212.630	1396.888

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-13 Acquired: 12/29/2024 4:14:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2235744	-.072111	.6326948	.1350963	.0402090	88.77365	.6261557
Stddev	.0008145	.005177	.0033293	.0011545	.0010342	.29113	.0005767
%RSD	.3643213	7.179009	.5262090	.8545745	2.572143	.3279467	.0921088
#1	.2244860	-.075667	.6364716	.1344953	.0405558	89.03710	.6266788
#2	.2229182	-.066172	.6314278	.1343662	.0390460	88.82276	.6255372
#3	.2233190	-.074494	.6301851	.1364273	.0410254	88.46109	.6262511

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0148946	.0047271	28.86268	.1174858	.0939025	.3888793	221.2117
Stddev	.0002741	.0001208	.05668	.0002429	.0013116	.0056199	.7356
%RSD	1.840213	2.556129	.1963750	.2067707	1.396807	1.445149	.3325500
#1	.0151484	.0047994	28.92790	.1172154	.0952833	.3830735	221.9182
#2	.0149315	.0045876	28.83474	.1175565	.0926731	.3892717	221.2670
#3	.0146039	.0047944	28.82539	.1176856	.0937512	.3942927	220.4500

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.26935	20.87442	.1906226	.0015323	.3361109	.1732610	.6305217
Stddev	.07341	.01651	.0013937	.0008222	.0200129	.0070148	.0019891
%RSD	.3621942	.0790948	.7311239	53.65875	5.954257	4.048676	.3154713
#1	20.33117	20.87265	.1910986	.0007250	.3514423	.1653185	.6326230
#2	20.28868	20.85887	.1890533	.0015033	.3434194	.1786089	.6302741
#3	20.18821	20.89175	.1917160	.0023687	.3134710	.1758554	.6286679

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.677680	2.699652	.0918013	.0101073	.8440712	10.49549	.0261916
Stddev	.057517	.015004	.0004888	.0003361	.0140332	.10482	.0012716
%RSD	.7491400	.5557818	.5324205	3.324840	1.662566	.9987472	4.855002
#1	7.666953	2.716315	.0912412	.0100566	.8528953	10.59180	.0265032
#2	7.739805	2.687212	.0920210	.0097994	.8514292	10.51081	.0272784
#3	7.626282	2.695430	.0921416	.0104658	.8278891	10.38384	.0247931

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-13 Acquired: 12/29/2024 4:14:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5067299	-.078501	.0818565
Stddev	.0050805	.000871	.0021832
%RSD	1.002612	1.109764	2.667162
#1	.5084242	-.079101	.0804191
#2	.5107468	-.078899	.0843688
#3	.5010187	-.077502	.0807816

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2886.766	36117.91	2703.717	1837.413	1858.424
Stddev	14.184	196.00	22.740	4.361	11.805
%RSD	.4913495	.5426731	.8410683	.2373513	.6352105
#1	2876.992	36184.84	2678.936	1837.849	1848.084
#2	2903.035	36271.69	2708.589	1841.540	1871.286
#3	2880.271	35897.21	2723.626	1832.851	1855.901

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-14 Acquired: 12/29/2024 4:18:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1263744	-.051339	6.769343	.0854763	.0216041	77.61853
Stddev	.0068687	.006801	.016762	.0053952	.0021590	3.12016
%RSD	5.435204	13.24737	.2476153	6.311960	9.993635	4.019868
#1	.1187479	-.043823	6.754031	.0814972	.0219028	74.03563
#2	.1283016	-.053126	6.766746	.0833145	.0235982	79.08207
#3	.1320736	-.057069	6.787252	.0916172	.0193112	79.73789

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.351218	.0127947	.0179693	80.89841	.2247904	.0538297
Stddev	.125225	.0005197	.0002912	3.09599	.0003836	.0028248
%RSD	3.736691	4.061889	1.620556	3.827009	.1706263	5.247639
#1	3.206843	.0121986	.0182749	77.32348	.2247635	.0569159
#2	3.416474	.0131524	.0176951	82.69471	.2251867	.0532009
#3	3.430338	.0130331	.0179379	82.67703	.2244211	.0513723

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7267991	162.4107	6.527641	24.44384	.2358295	.0049180
Stddev	.0253305	6.1599	.250252	.87663	.0007382	.0009198
%RSD	3.485218	3.792791	3.833734	3.586312	.3130341	18.70266
#1	.6987632	155.3021	6.238870	23.43906	.2359011	.0038776
#2	.7480370	165.7538	6.662818	24.83998	.2350581	.0056231
#3	.7335972	166.1764	6.681234	25.05249	.2365293	.0052534

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6657312	.2065052	4.777013	7.589719	F 16.82013	.0989364
Stddev	.0101698	.0050622	.034056	.550395	.05380	.0038180
%RSD	1.527617	2.451383	.7129104	7.251845	.3198693	3.859068
#1	.6556488	.2018171	4.791619	6.967378	16.76136	.0945709
#2	.6759862	.2118729	4.801330	7.789295	16.83206	.1005861
#3	.6655586	.2058256	4.738091	8.012483	16.86696	.1016521

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-14 Acquired: 12/29/2024 4:18:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113871	5.234045	11.31807	.1798742	1.103884	.2212424
Stddev	.0007767	.013815	.35583	.0021551	.044136	.0083630
%RSD	6.820520	.2639471	3.143895	1.198095	3.998231	3.780029
#1	.0105545	5.235931	10.90765	.1780932	1.053396	.2116019
#2	.0120921	5.219384	11.50662	.1822698	1.123110	.2255775
#3	.0115147	5.246821	11.53996	.1792597	1.135146	.2265478

Elem	Li6707
Units	ppm
Avg	.1239826
Stddev	.0099101
%RSD	7.993141
#1	.1127276
#2	.1278205
#3	.1313998

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2468.705	30970.30	2415.962	1572.853	1851.963
Stddev	2.373	54.69	85.540	9.962	1.211
%RSD	.0961258	.1765805	3.540621	.6334005	.0653687
#1	2466.893	30988.06	2513.654	1570.845	1853.244
#2	2467.831	31013.91	2379.739	1564.048	1850.838
#3	2471.391	30908.94	2354.493	1583.667	1851.808

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-15 Acquired: 12/29/2024 4:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2223565	-.092918	8.685747	.1394764	.0436424	85.37290
Stddev	.0066623	.002398	.011084	.0022726	.0048388	.36728
%RSD	2.996236	2.580715	.1276063	1.629358	11.08749	.4302042
#1	.2152494	-.093694	8.680243	.1417492	.0491470	85.72383
#2	.2233600	-.094832	8.678494	.1372041	.0417206	84.99121
#3	.2284602	-.090228	8.698506	.1394759	.0400597	85.40366

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.421138	.0178284	.0254491	114.1514	.2335760	.0430272
Stddev	.017736	.0003316	.0000775	.5007	.0013365	.0014665
%RSD	.4011672	1.860164	.3045745	.4386079	.5721780	3.408347
#1	4.437706	.0181687	.0253651	114.6292	.2321382	.0432628
#2	4.402428	.0178106	.0254645	113.6306	.2347804	.0414572
#3	4.423279	.0175061	.0255178	114.1943	.2338095	.0443617

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9155107	257.1377	7.555239	26.51735	.2822544	.0058861
Stddev	.0052247	.6896	.019761	.08464	.0013311	.0012300
%RSD	.5706918	.2681937	.2615514	.3191690	.4715879	20.89756
#1	.9096020	257.8966	7.573226	26.52375	.2810884	.0055859
#2	.9195203	256.9670	7.534086	26.59860	.2819701	.0072384
#3	.9174099	256.5494	7.558405	26.42970	.2837046	.0048338

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.336615	.2603449	6.214655	8.152603	F 20.30942	.1269559
Stddev	.032570	.0169987	.014201	.107545	.03609	.0021805
%RSD	2.436736	6.529298	.2285148	1.319153	.1777233	1.717544
#1	1.372917	.2499835	6.198317	8.129208	20.27344	.1274843
#2	1.326975	.2510882	6.224049	8.269920	20.30918	.1245597
#3	1.309953	.2799629	6.221598	8.058681	20.34563	.1288236

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-15 Acquired: 12/29/2024 4:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149513	4.424441	11.31627	.9395766	1.256975	.2979246
Stddev	.0002346	.010519	.16353	.0038222	.005681	.0040455
%RSD	1.569082	.2377572	1.445114	.4067957	.4519903	1.357887
#1	.0152093	4.432802	11.49645	.9387521	1.250776	.3014991
#2	.0147507	4.412630	11.27512	.9362339	1.258216	.2935329
#3	.0148940	4.427892	11.17724	.9437437	1.261934	.2987419

Elem	Li6707
Units	ppm
Avg	.1351299
Stddev	.0034741
%RSD	2.570942
#1	.1375168
#2	.1311442
#3	.1367286

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2463.331	31022.53	2364.413	1576.980	1846.298
Stddev	6.868	142.34	23.814	11.294	3.374
%RSD	.2788247	.4588326	1.007171	.7161777	.1827398
#1	2456.096	31168.54	2337.729	1587.577	1844.565
#2	2469.762	31014.89	2372.006	1578.262	1850.186
#3	2464.133	30884.17	2383.505	1565.099	1844.143

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-16 Acquired: 12/29/2024 4:26:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1671487	-.064538	2.884543	.1010123	.0274738	94.71021
Stddev	.0053289	.001715	.003578	.0020910	.0016947	.14914
%RSD	3.188091	2.656573	.1240461	2.070014	6.168517	.1574704
#1	.1698615	-.062561	2.882293	.1029643	.0268812	94.87739
#2	.1705754	-.065618	2.888669	.1012670	.0293853	94.59083
#3	.1610093	-.065435	2.882668	.0988057	.0261550	94.66240

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.295724	.0146453	.0125310	74.60802	.1813777	.0610583
Stddev	.001751	.0000414	.0000290	.11584	.0019397	.0005042
%RSD	.0762526	.2828239	.2312816	.1552582	1.069421	.8257833
#1	2.297660	.0146604	.0125081	74.73702	.1793815	.0606558
#2	2.295257	.0146770	.0125636	74.57415	.1814964	.0616239
#3	2.294253	.0145984	.0125213	74.51289	.1832554	.0608953

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3808986	196.2900	11.59884	27.08277	.2154683	.0034071
Stddev	.0038816	.1563	.03440	.16053	.0005537	.0007689
%RSD	1.019076	.0796026	.2965653	.5927235	.2569712	22.56840
#1	.3839634	196.2399	11.62425	27.11989	.2160906	.0025266
#2	.3821986	196.1649	11.55969	26.90694	.2152842	.0039461
#3	.3765338	196.4652	11.61257	27.22149	.2150302	.0037488

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5942951	.2536249	2.295904	7.723258	F 14.09524	.0915215
Stddev	.0207984	.0085303	.018041	.105673	.02626	.0019183
%RSD	3.499667	3.363354	.7857696	1.368240	.1862800	2.095981
#1	.5808944	.2606235	2.297040	7.801983	14.07712	.0937343
#2	.5837360	.2561281	2.277322	7.764632	14.08324	.0904997
#3	.6182548	.2441230	2.313350	7.603158	14.12535	.0903304

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-16 Acquired: 12/29/2024 4:26:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113743	3.075805	11.97200	.1246326	1.000740	.1246031
Stddev	.0008422	.003672	.07079	.0028828	.003046	.0010798
%RSD	7.404645	.1193960	.5913006	2.313044	.3043591	.8665764
#1	.0104877	3.071566	12.04466	.1267906	1.001334	.1254813
#2	.0121637	3.077808	11.96808	.1213586	.997441	.1249304
#3	.0114713	3.078039	11.90324	.1257485	1.003445	.1233975

Elem	Li6707
Units	ppm
Avg	.1608960
Stddev	.0024905
%RSD	1.547899
#1	.1596294
#2	.1592934
#3	.1637652

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2614.786	32464.25	2502.333	1648.983	1847.352
Stddev	4.793	362.40	1.071	17.587	1.708
%RSD	.1833113	1.116304	.0428171	1.066554	.0924424
#1	2610.323	32709.98	2501.392	1655.857	1845.727
#2	2614.184	32634.73	2503.499	1662.095	1847.198
#3	2619.853	32048.05	2502.109	1628.997	1849.132

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-17 Acquired: 12/29/2024 4:30:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0996525	-.064689	.7072809	.0909494	.0233805	106.3343
Stddev	.0078082	.003995	.0033441	.0034883	.0020634	1.4688
%RSD	7.835401	6.176219	.4728138	3.835394	8.825279	1.381328
#1	.0922774	-.060733	.7083932	.0894486	.0239103	106.5448
#2	.1078315	-.064610	.7099272	.0884628	.0211038	104.7716
#3	.0988486	-.068723	.7035224	.0949369	.0251273	107.6865

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.449746	.0148999	.0082849	395.4196	.1957501	.0581658
Stddev	.016751	.0001427	.0001169	6.7982	.0010637	.0017459
%RSD	1.155436	.9577320	1.411228	1.719227	.5434087	3.001594
#1	1.452516	.0148728	.0083635	396.6578	.1948168	.0582591
#2	1.431783	.0147727	.0081505	388.0875	.1969083	.0598631
#3	1.464940	.0150542	.0083406	401.5136	.1955252	.0563751

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1575227	208.5895	6.413797	55.12334	.2148310	.0018143
Stddev	.0077667	3.0674	.092665	.51236	.0008255	.0013000
%RSD	4.930526	1.470539	1.444777	.9294826	.3842700	71.65398
#1	.1617942	209.2001	6.424600	55.44005	.2149223	.0010096
#2	.1485578	205.2627	6.316204	54.53222	.2156070	.0011192
#3	.1622160	211.3056	6.500587	55.39775	.2139635	.0033140

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6764991	.2351638	.8236097	7.507341	F 12.17086	.0964880
Stddev	.0228198	.0093117	.0026619	.261512	.01645	.0013260
%RSD	3.373214	3.959648	.3232025	3.483420	.1351230	1.374259
#1	.7009486	.2457747	.8211789	7.469565	12.16018	.0977433
#2	.6557651	.2283540	.8264543	7.266772	12.16260	.0951011
#3	.6727836	.2313627	.8231959	7.785687	12.18980	.0966194

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-17 Acquired: 12/29/2024 4:30:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058917	2.787400	10.57376	.0466997	1.140283	.1429669
Stddev	.0002001	.010626	.11851	.0006491	.010407	.0028974
%RSD	3.396653	.3812284	1.120768	1.389988	.9126456	2.026605
#1	.0060902	2.786693	10.65025	.0469992	1.145816	.1434494
#2	.0056900	2.777145	10.43725	.0459548	1.128278	.1398585
#3	.0058950	2.798363	10.63377	.0471449	1.146754	.1455927

Elem	Li6707
Units	ppm
Avg	.1820265
Stddev	.0040062
%RSD	2.200890
#1	.1826441
#2	.1777473
#3	.1856880

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2604.979	32823.35	2535.087	1660.868	1768.345
Stddev	11.023	124.65	29.697	8.194	5.453
%RSD	.4231618	.3797515	1.171450	.4933521	.3083418
#1	2599.388	32945.17	2525.645	1669.294	1764.704
#2	2617.678	32828.83	2568.357	1660.383	1774.614
#3	2597.872	32696.06	2511.259	1652.927	1765.718

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-18 Acquired: 12/29/2024 4:34:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0589099	-.042550	.2581734	.0716627	.0169224	76.16062	.8698866
Stddev	.0041999	.003353	.0015715	.0069232	.0032580	.50317	.0058681
%RSD	7.129404	7.881209	.6087160	9.660813	19.25279	.6606673	.6745786
#1	.0545406	-.046415	.2571087	.0698966	.0141306	75.86037	.8661292
#2	.0592721	-.040825	.2599784	.0657936	.0205022	75.87997	.8668821
#3	.0629169	-.040410	.2574332	.0792979	.0161344	76.74152	.8766485

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119358	.0044825	617.5616	.1138967	.0646154	.1346416	190.8217
Stddev	.0002113	.0001281	4.1235	.0002371	.0005392	.0015298	1.2763
%RSD	1.770728	2.857913	.6677112	.2082003	.8344434	1.136235	.6688308
#1	.0116934	.0043598	614.7900	.1138404	.0645798	.1329280	189.9137
#2	.0120322	.0046154	615.5944	.1141570	.0651715	.1351267	190.2703
#3	.0120818	.0044723	622.3003	.1136929	.0640949	.1358701	192.2809

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.731249	127.7344	.2150447	-.000776	1.176733	.1654305	.5053699
Stddev	.052510	1.1161	.0008062	.000748	.039964	.0030778	.0057557
%RSD	.7800972	.8737869	.3749150	96.35956	3.396168	1.860462	1.138919
#1	6.688619	127.2380	.2159217	-.000856	1.131335	.1638695	.5090061
#2	6.715224	126.9526	.2143358	-.001480	1.206600	.1634461	.4987339
#3	6.789905	129.0126	.2148766	.000008	1.192263	.1689760	.5083697

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.898240	7.738268	.0939235	.0053756	1.136197	10.59760	.0329624
Stddev	.266062	.029644	.0018287	.0006856	.006941	.06141	.0013491
%RSD	3.368629	.3830820	1.946987	12.75407	.6109350	.5794329	4.092775
#1	7.764867	7.713405	.0954754	.0046602	1.128182	10.53065	.0344668
#2	7.725244	7.730323	.0919074	.0060269	1.140271	10.61085	.0318602
#3	8.204610	7.771074	.0943875	.0054397	1.140137	10.65130	.0325600

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-18 Acquired: 12/29/2024 4:34:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKC9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.397275	.4956914	.1403358
Stddev	.008334	.0027374	.0012533
%RSD	.5964715	.5522450	.8931045
#1	1.402302	.4946008	.1402265
#2	1.387655	.4936674	.1391406
#3	1.401870	.4988061	.1416401

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2369.942	29965.15	2356.339	1503.276	1686.702
Stddev	4.643	130.09	14.501	12.877	2.403
%RSD	.1959132	.4341477	.6154020	.8565879	.1424882
#1	2366.797	29879.65	2370.076	1499.501	1689.466
#2	2367.754	30114.86	2357.762	1517.619	1685.104
#3	2375.274	29900.93	2341.179	1492.709	1685.537

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-19 Acquired: 12/29/2024 4:38:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0462027	-.035931	.1046537	.0619321	.0110186	68.78017	.6507544
Stddev	.0019939	.003493	.0031026	.0085495	.0021488	.54257	.0046173
%RSD	4.315494	9.721977	2.964656	13.80460	19.50204	.7888482	.7095335
#1	.0441071	-.031943	.1024370	.0646183	.0085933	69.35709	.6560111
#2	.0480762	-.038449	.1081995	.0523621	.0117775	68.70327	.6488975
#3	.0464248	-.037402	.1033248	.0688159	.0126850	68.28015	.6473547

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107750	.0032172	476.1992	.1003373	.0723160	.1228642	171.8166
Stddev	.0003236	.0001417	2.2364	.0005503	.0011373	.0008670	1.4681
%RSD	3.003462	4.403231	.4696250	.5484548	1.572725	.7056656	.8544372
#1	.0111477	.0032242	478.7129	.1003341	.0716873	.1223529	173.4226
#2	.0106115	.0030721	475.4543	.0997887	.0716318	.1223745	171.4835
#3	.0105657	.0033552	474.4303	.1008893	.0736289	.1238653	170.5437

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.779646	116.5093	.2118175	-.000709	.9648184	.1534198	.3544020
Stddev	.046147	.9652	.0004227	.000911	.0206730	.0066173	.0009839
%RSD	.6806638	.8284281	.1995331	128.4715	2.142683	4.313220	.2776081
#1	6.822901	117.4213	.2114299	.000312	.9886679	.1587072	.3549921
#2	6.784966	116.6080	.2122681	-.000999	.9520136	.1555534	.3532662
#3	6.731069	115.4985	.2117545	-.001440	.9537738	.1459989	.3549477

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.660318	7.013817	.0822888	.0048179	.6336580	9.664723	.0224794
Stddev	.085149	.005184	.0020148	.0004839	.0092759	.065987	.0022889
%RSD	1.111564	.0739078	2.448485	10.04334	1.463872	.6827626	10.18243
#1	7.617753	7.013987	.0809144	.0047725	.6418948	9.711285	.0218848
#2	7.758358	7.008550	.0846017	.0053230	.6236101	9.693674	.0250069
#3	7.604845	7.018913	.0813504	.0043584	.6354692	9.589209	.0205464

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5030-19 Acquired: 12/29/2024 4:38:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.384952	.4623062	.1252917
Stddev	.003130	.0021387	.0016704
%RSD	.2260044	.4626243	1.333201
#1	1.384228	.4643249	.1238012
#2	1.388381	.4600649	.1270971
#3	1.382248	.4625287	.1249768

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2358.916	29895.18	2311.176	1508.863	1714.034
Stddev	4.904	110.90	10.962	5.784	5.450
%RSD	.2078858	.3709718	.4743245	.3833449	.3179495
#1	2356.478	30012.16	2303.474	1506.878	1711.622
#2	2355.709	29791.56	2306.328	1504.334	1710.206
#3	2364.561	29881.83	2323.727	1515.379	1720.273

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-20 Acquired: 12/29/2024 4:42:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0724122	-.033769	.1054803	.0627528	.0120612	75.87354	.6255160
Stddev	.0046811	.007321	.0011720	.0009726	.0051711	.31810	.0030989
%RSD	6.464464	21.68102	1.111107	1.549858	42.87344	.4192559	.4954190
#1	.0760739	-.025594	.1067045	.0638736	.0093652	75.51673	.6222653
#2	.0671380	-.039722	.1043686	.0622540	.0087953	75.97643	.6284368
#3	.0740246	-.035990	.1053678	.0621308	.0180231	76.12747	.6258458

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109637	.0032577	522.8859	.1081465	.0797165	.1324544	170.5290
Stddev	.0001198	.0000695	2.3353	.0001589	.0004400	.0055867	.4453
%RSD	1.092462	2.134068	.4466119	.1469169	.5519012	4.217797	.2611154
#1	.0110976	.0031991	520.1977	.1079794	.0799554	.1260136	170.0238
#2	.0109266	.0033345	524.0464	.1081646	.0799854	.1353615	170.8644
#3	.0108668	.0032394	524.4135	.1082956	.0792088	.1359880	170.6987

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.688083	111.8324	.2219985	-.000351	1.104716	.1694384	.3778453
Stddev	.014203	.3774	.0016169	.000723	.012153	.0133004	.0038207
%RSD	.2497047	.3374949	.7283544	205.7291	1.100141	7.849694	1.011182
#1	5.671698	111.4009	.2225442	-.001172	1.111731	.1837477	.3816390
#2	5.695653	112.1011	.2201793	.000189	1.111734	.1671140	.3739981
#3	5.696899	111.9953	.2232720	-.000070	1.090682	.1574533	.3778987

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.928358	7.214936	.0788930	.0040785	.6788246	11.49171	.0213699
Stddev	.058778	.014038	.0006993	.0006500	.0029434	.01200	.0015783
%RSD	.7413611	.1945699	.8864559	15.93649	.4336013	.1044063	7.385415
#1	7.949477	7.219402	.0792068	.0037386	.6754346	11.50280	.0199014
#2	7.861939	7.199208	.0793804	.0048280	.6807305	11.49336	.0211695
#3	7.973658	7.226197	.0780917	.0036690	.6803088	11.47897	.0230388

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-20 Acquired: 12/29/2024 4:42:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.415946	.5378416	.1428535
Stddev	.006649	.0019916	.0054720
%RSD	.4695824	.3702934	3.830507
#1	1.408924	.5362579	.1365651
#2	1.416768	.5371894	.1454637
#3	1.422146	.5400776	.1465317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2368.717	30019.89	2304.959	1505.218	1697.855
Stddev	3.316	113.08	8.581	8.640	2.501
%RSD	.1399955	.3766906	.3722977	.5740118	.1472848
#1	2364.975	30129.19	2313.968	1505.318	1695.012
#2	2369.881	30027.11	2304.028	1513.809	1699.716
#3	2371.293	29903.37	2296.881	1496.529	1698.835

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-21 Acquired: 12/29/2024 4:45:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0642520	-.038594	.1088591	.0615444	.0152514	76.24008	.6115035
Stddev	.0033776	.002151	.0034386	.0070675	.0049924	1.06422	.0100661
%RSD	5.256850	5.572937	3.158802	11.48360	32.73392	1.395883	1.646120
#1	.0678584	-.039711	.1124733	.0636290	.0200660	77.46791	.6231181
#2	.0611627	-.039956	.1056281	.0536691	.0155896	75.58253	.6053063
#3	.0637350	-.036114	.1084760	.0673352	.0100985	75.66981	.6060861

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112873	.0029838	470.5185	.1060905	.0753433	.1343531	176.1622
Stddev	.0002240	.0000388	6.3724	.0008597	.0009235	.0081726	2.4848
%RSD	1.984096	1.301685	1.354328	.8103058	1.225765	6.082890	1.410534
#1	.0114206	.0029483	477.8708	.1052722	.0744109	.1347610	179.0254
#2	.0114126	.0029779	466.5872	.1060132	.0753614	.1259843	174.8921
#3	.0110288	.0030253	467.0975	.1069863	.0762577	.1423141	174.5691

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.976421	108.8903	.2106136	.0003180	1.006285	.1682757	.3709866
Stddev	.072057	1.4973	.0006544	.0004179	.023920	.0155200	.0014565
%RSD	1.447963	1.375060	.3107157	131.4104	2.377076	9.222949	.3926133
#1	5.059080	110.6192	.2098877	-.000126	1.021568	.1861888	.3697695
#2	4.943330	108.0126	.2111585	.000376	.978718	.1597776	.3726004
#3	4.926854	108.0392	.2107945	.000704	1.018568	.1588607	.3705899

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.867604	7.087870	.0846486	.0035420	.6151418	10.86465	.0236371
Stddev	.052615	.016257	.0019083	.0002920	.0106728	.10189	.0033929
%RSD	.5933420	.2293602	2.254339	8.244157	1.735022	.9378552	14.35407
#1	8.896503	7.081324	.0867373	.0032225	.6211925	10.97618	.0240533
#2	8.899437	7.075907	.0829964	.0036084	.6028185	10.84134	.0200553
#3	8.806873	7.106380	.0842121	.0037950	.6214142	10.77642	.0268027

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-21 Acquired: 12/29/2024 4:45:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.527053	.4855971	.1390509
Stddev	.023549	.0068092	.0032910
%RSD	1.542088	1.402236	2.366791
#1	1.554243	.4932898	.1406639
#2	1.513665	.4803427	.1412243
#3	1.513250	.4831589	.1352645

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2321.527	29614.99	2250.526	1490.243	1675.068
Stddev	5.411	16.65	20.934	4.130	4.033
%RSD	.2330973	.0562279	.9301622	.2771483	.2407876
#1	2326.883	29608.73	2226.355	1494.981	1676.881
#2	2321.636	29633.86	2262.405	1488.342	1677.877
#3	2316.062	29602.37	2262.817	1487.405	1670.447

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-22 Acquired: 12/29/2024 4:49:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1944030	-.112282	.5129073	.1644619	.0525250	102.4335	.6864725
Stddev	.0039509	.004957	.0016543	.0041641	.0017293	1.2205	.0102891
%RSD	2.032310	4.414797	.3225292	2.531970	3.292379	1.191509	1.498838
#1	.1898578	-.117967	.5141877	.1682632	.0530843	102.9960	.6910496
#2	.1963358	-.110013	.5134947	.1651113	.0539054	103.2712	.6936789
#3	.1970154	-.108866	.5110395	.1600112	.0505852	101.0332	.6746891

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0168369	.0055559	23.37630	.1417435	.0479116	.2646732	268.1891
Stddev	.0001105	.0001990	.32412	.0004944	.0006091	.0016636	3.2117
%RSD	.6560025	3.582224	1.386531	.3488004	1.271307	.6285605	1.197569
#1	.0167791	.0057332	23.49846	.1419368	.0476145	.2665494	269.2974
#2	.0167674	.0053406	23.62160	.1411816	.0475080	.2633779	270.6999
#3	.0169643	.0055937	23.00886	.1421120	.0486122	.2640922	264.5700

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.06980	25.09844	.1883135	.0020532	5.880561	.2417812	.7685598
Stddev	.21417	.27102	.0004784	.0003308	.040664	.0078406	.0026378
%RSD	1.254676	1.079840	.2540278	16.11036	.6914911	3.242847	.3432151
#1	17.16212	25.14844	.1882857	.0023046	5.881338	.2327964	.7715918
#2	17.22234	25.34099	.1888051	.0016785	5.920831	.2453086	.7672952
#3	16.82496	24.80590	.1878496	.0021766	5.839515	.2472384	.7667923

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.681827	2.961106	.1110181	.0052198	2.724458	11.15226	.0320802
Stddev	.185408	.004641	.0038870	.0007319	.016652	.06566	.0012473
%RSD	2.135584	.1567338	3.501251	14.02136	.6112112	.5887251	3.888089
#1	8.633727	2.959934	.1128156	.0060381	2.706418	11.09714	.0307447
#2	8.886544	2.966220	.1136811	.0046278	2.739241	11.22490	.0322808
#3	8.525209	2.957163	.1065577	.0049936	2.727714	11.13473	.0332150

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5030-22 Acquired: 12/29/2024 4:49:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.206880	-.164106	.0985085
Stddev	.009829	.001886	.0054334
%RSD	.8144336	1.149086	5.515664
#1	1.204825	-.164518	.0991625
#2	1.217574	-.165753	.1035853
#3	1.198240	-.162049	.0927777

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2559.142	32294.55	2432.948	1647.047	1828.019
Stddev	2.833	158.92	18.868	5.990	2.056
%RSD	.1106924	.4921025	.7755062	.3636899	.1124805
#1	2557.459	32154.26	2441.292	1641.450	1829.185
#2	2557.555	32262.24	2411.347	1646.325	1825.645
#3	2562.413	32467.14	2446.206	1653.365	1829.227

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-01 Acquired: 12/29/2024 4:53:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK55 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1203315	-.033670	2.951218	.0638859	.0192583	51.90131
Stddev	.0018297	.001155	.007720	.0022265	.0062623	.17109
%RSD	1.520562	3.429217	.2615823	3.485187	32.51762	.3296374
#1	.1208893	-.032442	2.943399	.0645351	.0264487	52.02343
#2	.1182878	-.034733	2.951420	.0657157	.0149995	51.70577
#3	.1218174	-.033836	2.958834	.0614069	.0163266	51.97474

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.400620	.0110157	.0065634	59.67670	.1200074	.0533817
Stddev	.007707	.0002101	.0000811	.09764	.0013959	.0008209
%RSD	.5502642	1.907145	1.236044	.1636174	1.163214	1.537862
#1	1.409272	.0112472	.0066527	59.57078	.1205649	.0524849
#2	1.394490	.0109626	.0064943	59.69620	.1210385	.0540961
#3	1.398099	.0108372	.0065431	59.76312	.1184189	.0535642

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3540095	124.4942	6.356625	13.62088	.1700882	.0033304
Stddev	.0009004	.2933	.032436	.17127	.0003520	.0009782
%RSD	.2543411	.2355757	.5102708	1.257421	.2069577	29.37221
#1	.3541975	124.8114	6.393368	13.81588	.1702331	.0039262
#2	.3548011	124.2329	6.331962	13.55194	.1703446	.0038635
#3	.3530300	124.4385	6.344547	13.49482	.1696868	.0022014

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6784071	.1558154	1.674464	7.360749	F 14.40303	.0868605
Stddev	.0288623	.0144694	.010538	.025274	.04347	.0022256
%RSD	4.254428	9.286241	.6293093	.3433552	.3018367	2.562277
#1	.6900422	.1441986	1.666187	7.366819	14.36287	.0844589
#2	.6455432	.1512242	1.686327	7.332993	14.39703	.0872692
#3	.6996359	.1720234	1.670879	7.382435	14.44920	.0888534

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-01 Acquired: 12/29/2024 4:53:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK55 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0132857	6.773430	9.395986	.1066163	.7826686	.2343045
Stddev	.0003052	.015608	.071281	.0006609	.0015636	.0002843
%RSD	2.297009	.2304289	.7586299	.6198629	.1997733	.1213220
#1	.0133236	6.778493	9.457056	.1069758	.7841681	.2341797
#2	.0129633	6.755919	9.413240	.1070196	.7827895	.2346299
#3	.0135701	6.785877	9.317662	.1058536	.7810480	.2341041

Elem	Li6707
Units	ppm
Avg	.0600578
Stddev	.0013005
%RSD	2.165492
#1	.0594525
#2	.0591702
#3	.0615506

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2417.794	30538.68	2293.448	1545.611	1901.394
Stddev	5.076	149.06	16.760	5.832	5.447
%RSD	.2099611	.4881049	.7307591	.3773401	.2864914
#1	2419.666	30657.33	2274.109	1551.879	1902.941
#2	2421.669	30587.33	2302.502	1544.611	1905.901
#3	2412.048	30371.37	2303.733	1540.344	1895.341

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-02 Acquired: 12/29/2024 4:57:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK56 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2185459	-.047100	1.452741	.0726354	.0188287	57.30974
Stddev	.0070356	.003659	.005803	.0042157	.0030183	.13050
%RSD	3.219287	7.767850	.3994322	5.803915	16.03041	.2277098
#1	.2201904	-.050934	1.448609	.0767190	.0194724	57.16082
#2	.2108336	-.043647	1.459375	.0682990	.0214732	57.36426
#3	.2246135	-.046720	1.450240	.0728882	.0155404	57.40413

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8182015	.0180885	.0042881	57.93315	.0898572	.0462247
Stddev	.0018089	.0001044	.0000611	.11423	.0005981	.0003771
%RSD	.2210881	.5771829	1.425625	.1971834	.6655620	.8158112
#1	.8174214	.0179695	.0042992	57.80129	.0899730	.0457936
#2	.8169134	.0181646	.0042222	58.00231	.0892097	.0463868
#3	.8202696	.0181314	.0043429	57.99584	.0903889	.0464936

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2594478	136.9527	2.953999	6.507321	.1384212	.0012379
Stddev	.0060386	.4458	.006378	.065381	.0001794	.0006142
%RSD	2.327494	.3255239	.2158943	1.004725	.1295936	49.61836
#1	.2526003	136.6258	2.947886	6.435413	.1386283	.0007806
#2	.2617318	136.7718	2.960612	6.523358	.1383189	.0019360
#3	.2640114	137.4605	2.953499	6.563190	.1383164	.0009970

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.153353	.1616417	.8787042	5.207971	F 10.71831	.0981164
Stddev	.016282	.0157988	.0054940	.045141	.01607	.0017937
%RSD	1.411735	9.773965	.6252348	.8667730	.1498989	1.828099
#1	1.159144	.1698905	.8849906	5.251636	10.70969	.1000540
#2	1.134967	.1434258	.8748234	5.210791	10.70839	.0977811
#3	1.165948	.1716087	.8762985	5.161486	10.73684	.0965140

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-02 Acquired: 12/29/2024 4:57:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK56 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156102	6.820837	7.076286	.0654933	1.661463	.2536752
Stddev	.0005151	.008384	.026583	.0002979	.015396	.0006655
%RSD	3.299572	.1229199	.3756689	.4547864	.9266491	.2623563
#1	.0161981	6.818074	7.057967	.0656533	1.663804	.2529199
#2	.0152383	6.830254	7.106776	.0656769	1.645031	.2541757
#3	.0153942	6.814183	7.064115	.0651497	1.675555	.2539299

Elem	Li6707
Units	ppm
Avg	.0403608
Stddev	.0032395
%RSD	8.026437
#1	.0409035
#2	.0368842
#3	.0432948

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2330.583	29478.00	2169.550	1494.649	1895.190
Stddev	12.024	140.91	6.603	12.194	7.066
%RSD	.5159080	.4780242	.3043502	.8158169	.3728346
#1	2343.769	29322.37	2164.614	1480.579	1903.071
#2	2327.750	29596.93	2166.985	1501.224	1893.077
#3	2320.228	29514.70	2177.051	1502.143	1889.421

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-03 Acquired: 12/29/2024 5:01:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK57 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1170559	-.037778	5.413705	.0581468	.0113717	73.30417
Stddev	.0043561	.003853	.009369	.0038379	.0010079	.30592
%RSD	3.721342	10.19812	.1730611	6.600422	8.863453	.4173237
#1	.1220718	-.033952	5.417337	.0537328	.0103789	72.97683
#2	.1148726	-.041657	5.403064	.0606963	.0113421	73.58281
#3	.1142232	-.037726	5.420714	.0600113	.0123941	73.35289

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.042836	.0124499	.0058805	69.62234	.1443344	.0847534
Stddev	.007751	.0002310	.0001315	.23939	.0020041	.0002115
%RSD	.3794076	1.855362	2.236073	.3438383	1.388507	.2495537
#1	2.035819	.0122595	.0060310	69.39506	.1450676	.0848612
#2	2.051155	.0123832	.0058229	69.87223	.1420670	.0845098
#3	2.041533	.0127068	.0057877	69.59972	.1458687	.0848894

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4430799	119.6022	5.032908	9.850656	.1962281	.0007224
Stddev	.0090581	.5675	.009903	.180829	.0011467	.0002073
%RSD	2.044340	.4744564	.1967592	1.835701	.5843663	28.68779
#1	.4489870	119.0746	5.022799	9.661555	.1974997	.0009499
#2	.4326512	120.2025	5.042591	9.868529	.1959118	.0005443
#3	.4476015	119.5295	5.033334	10.02188	.1952728	.0006731

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.820482	.2252634	2.490431	11.70138	F 22.92082	.1100280
Stddev	.011938	.0079969	.003702	.11578	.06637	.0017893
%RSD	.4232569	3.550019	.1486509	.9894156	.2895532	1.626220
#1	2.811448	.2226985	2.492647	11.59119	22.99540	.1111087
#2	2.815983	.2188637	2.486158	11.82203	22.86826	.1079626
#3	2.834016	.2342281	2.492490	11.69091	22.89881	.1110127

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-03 Acquired: 12/29/2024 5:01:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK57 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0162913	3.197374	9.328454	.1243163	1.397132	.7462087
Stddev	.0011092	.006037	.015961	.0032164	.001849	.0040554
%RSD	6.808461	.1888144	.1711017	2.587238	.1323689	.5434733
#1	.0169701	3.201042	9.342547	.1277022	1.396659	.7415436
#2	.0168924	3.190407	9.331693	.1213017	1.395566	.7481884
#3	.0150113	3.200675	9.311122	.1239450	1.399172	.7488940

Elem	Li6707
Units	ppm
Avg	.0965796
Stddev	.0037489
%RSD	3.881688
#1	.0923151
#2	.0993561
#3	.0980677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2399.926	30181.33	2261.393	1528.879	1861.098
Stddev	5.702	63.31	9.721	6.744	3.529
%RSD	.2375759	.2097815	.4298630	.4411287	.1896227
#1	2400.162	30118.32	2266.499	1528.058	1858.718
#2	2394.110	30180.74	2250.183	1522.582	1859.423
#3	2405.506	30244.95	2267.497	1535.996	1865.152

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV035 Acquired: 12/29/2024 5:05:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV035 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.056951	4.828862	24.69422	5.103009	4.993810	407.1872	10.06755
Stddev	.018447	.019821	.02868	.010365	.009683	12.8825	.31862
%RSD	.3647931	.4104630	.1161276	.2031160	.1939091	3.163775	3.164812
#1	5.061545	4.850931	24.66111	5.092245	4.982629	392.3517	9.70123
#2	5.036641	4.823080	24.71139	5.103857	4.999382	415.5483	10.28035
#3	5.072667	4.812575	24.71016	5.112923	4.999421	413.6617	10.22106

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5133500	2.486667	403.1379	15.57269	2.409872	14.85081	408.7950
Stddev	.0150065	.001914	12.3080	.05954	.004832	.40200	13.0313
%RSD	2.923251	.0769609	3.053044	.3823658	.2005094	2.706938	3.187734
#1	.4960263	2.484460	388.9290	15.53322	2.415446	14.38682	393.7663
#2	.5216771	2.487868	410.4991	15.64118	2.407279	15.09475	416.9571
#3	.5223467	2.487673	409.9857	15.54367	2.406889	15.07086	415.6615

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.72101	403.4109	2.508948	1.289991	424.0965	2.490280	15.21644
Stddev	.46947	12.0758	.005046	.006012	15.0405	.081834	.01728
%RSD	3.189128	2.993424	.2011212	.4660569	3.546479	3.286148	.1135605
#1	14.18087	389.5333	2.503288	1.283712	406.7293	2.396569	15.20385
#2	15.03098	411.5260	2.510580	1.295695	432.7859	2.547649	15.20933
#3	14.95118	409.1734	2.512976	1.290566	432.7744	2.526622	15.23614

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	152.0092	5.005879	4.967473	5.017898	5.055999	4.847656	5.026952
Stddev	4.6260	.017359	.155170	.009168	.019859	.151004	.007734
%RSD	3.043249	.3467746	3.123721	.1826986	.3927848	3.114993	.1538411
#1	146.6693	4.987049	4.788441	5.013551	5.035960	4.674966	5.018196
#2	154.5610	5.009341	5.050804	5.028431	5.056365	4.913121	5.029813
#3	154.7974	5.021246	5.063174	5.011713	5.075673	4.954880	5.032847

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV035 Acquired: 12/29/2024 5:05:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV035 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.993908	4.673709	5.153885
Stddev	.159098	.140527	.160901
%RSD	3.185838	3.006752	3.121934
#1	4.812934	4.511443	4.970110
#2	5.111752	4.755082	5.269414
#3	5.057039	4.754602	5.222133

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1801.249	23294.88	1902.220	1127.113	1533.096
Stddev	8.304	221.84	56.136	6.329	4.899
%RSD	.4609978	.9522972	2.951073	.5615662	.3195801
#1	1804.522	23288.49	1966.198	1124.300	1535.587
#2	1791.808	23076.31	1861.214	1122.678	1527.451
#3	1807.418	23519.84	1879.247	1134.362	1536.249

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB035 Acquired: 12/29/2024 5:09:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB035 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000194	.0021408	.0036185	-.000328	.0012870	-.032376	-.000661
Stddev	.002662	.0028440	.0012644	.001206	.0033195	.013417	.002654
%RSD	1368.860	132.8488	34.94258	367.5297	257.9299	41.44013	401.7544
#1	-.002690	-.000179	.0023379	-.001090	-.000616	-.019617	.002400
#2	.002608	.001288	.0048660	.001062	.005120	-.031146	-.002324
#3	-.000501	.005314	.0036517	-.000956	-.000643	-.046366	-.002057

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000035	.0000600	-.016627	.0012289	.0006355	-.007345	.0121232
Stddev	.0001575	.0001947	.029098	.0002744	.0003421	.004080	.0286398
%RSD	4501.329	324.6856	175.0016	22.33143	53.82727	55.54848	236.2391
#1	.0001769	.0002842	-.049258	.0009674	.0010162	-.006335	.0214939
#2	-.000036	-.000038	.006622	.0012048	.0005364	-.011835	.0349039
#3	-.000131	-.000066	-.007245	.0015147	.0003539	-.003865	-.020028

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000671	-.043895	.0001036	-.000107	.0410313	-.010813	.0021656
Stddev	.001266	.130282	.0003883	.000881	.0334081	.010498	.0004018
%RSD	188.7648	296.8050	374.8032	822.1767	81.42087	97.08669	18.55372
#1	-.000474	-.082569	-.000264	-.000956	.0279031	-.006247	.0025521
#2	-.002023	-.150461	.000066	.000802	.0161815	-.022820	.0017501
#3	.000485	.101345	.000510	-.000168	.0790094	-.003371	.0021944

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1909806	.0003166	.0092393	.0003305	.0100498	.0004734	.0001158
Stddev	.0410113	.0001885	.0016893	.0003196	.0017944	.0019929	.0007499
%RSD	21.47404	59.54476	18.28347	96.71301	17.85481	420.9915	647.4018
#1	.1959581	.0001586	.0111069	-.000017	.0120887	.0010686	.0009175
#2	.2292760	.0002660	.0087931	.000612	.0087109	.0021008	-.000001
#3	.1477078	.0005253	.0078180	.000396	.0093498	-.001749	-.000569

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB035 Acquired: 12/29/2024 5:09:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB035 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0024778	.0000257	.0139934
Stddev	.0031536	.0003609	.0027727
%RSD	127.2715	1402.266	19.81428
#1	.0014507	-.000222	.0171879
#2	.0060169	-.000140	.0122111
#3	-.000034	.000440	.0125813

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2030.918	25929.85	1941.774	1310.178	1847.171
Stddev	7.408	186.96	8.078	8.815	4.096
%RSD	.3647575	.7210241	.4159982	.6728421	.2217419
#1	2028.683	25721.29	1940.598	1300.070	1846.282
#2	2039.186	26082.43	1950.375	1314.195	1851.638
#3	2024.885	25985.82	1934.348	1316.270	1843.593

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-04 Acquired: 12/29/2024 5:13:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK58 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1572303	-.019180	6.265091	.0661949	.0032191	63.45867
Stddev	.0032365	.000912	.018779	.0056065	.0020726	.19306
%RSD	2.058460	4.756089	.2997341	8.469651	64.38537	.3042275
#1	.1558006	-.018177	6.261545	.0626975	.0054481	63.32468
#2	.1549548	-.019404	6.248338	.0726615	.0013502	63.37137
#3	.1609354	-.019960	6.285390	.0632257	.0028588	63.67996

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.450185	.0107263	.0080924	166.7085	.1016622	.0843734
Stddev	.003398	.0002624	.0001868	.8352	.0014615	.0003609
%RSD	.2342894	2.446589	2.308338	.5009972	1.437628	.4276818
#1	1.451494	.0104717	.0080732	165.9584	.1032070	.0847636
#2	1.446328	.0107112	.0079159	166.5587	.1014781	.0840517
#3	1.452734	.0109959	.0082880	167.6085	.1003014	.0843050

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3178374	134.1838	12.53337	27.42689	.1618071	.0018547
Stddev	.0067352	.5112	.04932	.22787	.0007254	.0011198
%RSD	2.119079	.3809407	.3934772	.8308154	.4483397	60.37522
#1	.3229860	133.8321	12.53671	27.43842	.1610428	.0016799
#2	.3203110	133.9492	12.48247	27.19348	.1618922	.0030517
#3	.3102151	134.7702	12.58093	27.64878	.1624862	.0008326

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.113173	.2335577	2.816606	7.250864	F 15.52829	.0888808
Stddev	.008076	.0090464	.006525	.209203	.06002	.0019043
%RSD	.7255192	3.873290	.2316775	2.885217	.3865461	2.142519
#1	1.119078	.2439927	2.822074	7.424288	15.53029	.0869765
#2	1.103969	.2279281	2.818361	7.018519	15.46730	.0888808
#3	1.116471	.2287523	2.809382	7.309785	15.58730	.0907851

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-04 Acquired: 12/29/2024 5:13:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK58 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0186413	1.981848	11.27908	.1209999	.6544848	.4274745
Stddev	.0002129	.019442	.06997	.0022608	.0026438	.0027994
%RSD	1.142137	.9810120	.6203123	1.868458	.4039487	.6548771
#1	.0186267	1.959660	11.32568	.1206890	.6549913	.4246160
#2	.0184360	1.989980	11.19862	.1189106	.6568387	.4275964
#3	.0188611	1.995904	11.31293	.1234001	.6516244	.4302109

Elem	Li6707
Units	ppm
Avg	.1087855
Stddev	.0027899
%RSD	2.564567
#1	.1091016
#2	.1114039
#3	.1058510

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2549.606	32126.76	2475.724	1625.590	1853.057
Stddev	3.717	168.81	22.310	3.984	2.463
%RSD	.1457954	.5254636	.9011515	.2450969	.1329297
#1	2546.640	32315.43	2477.485	1629.188	1853.269
#2	2548.402	32074.85	2497.102	1626.273	1855.408
#3	2553.776	31989.99	2452.586	1621.308	1850.495

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-05 Acquired: 12/29/2024 5:17:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK59 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1638386	-.024153	1.512361	.0943485	.0184473	45.76731
Stddev	.0064817	.001564	.004187	.0042732	.0035732	.75356
%RSD	3.956179	6.473418	.2768632	4.529152	19.36958	1.646502
#1	.1675133	-.022807	1.508210	.0899591	.0186463	44.89745
#2	.1563545	-.025868	1.512289	.0984952	.0219168	46.22138
#3	.1676480	-.023786	1.516583	.0945912	.0147788	46.18308

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8001774	.0120027	.0076282	F 884.1817	.0747941	.0672236
Stddev	.0125139	.0002734	.0002290	14.3850	.0002708	.0012240
%RSD	1.563891	2.277664	3.002051	1.626926	.3620189	1.820849
#1	.7857278	.0117005	.0078051	867.5802	.0751059	.0683539
#2	.8073322	.0120749	.0077101	892.9536	.0746584	.0659235
#3	.8074722	.0122328	.0073696	892.0112	.0746181	.0673933

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2336591	213.5416	20.44726	203.0806	.1624312	.0019806
Stddev	.0048273	3.5949	.31974	3.1917	.0006156	.0009881
%RSD	2.065953	1.683457	1.563711	1.571654	.3789673	49.89161
#1	.2350536	209.3907	20.07822	199.4140	.1618646	.0012741
#2	.2376356	215.5888	20.62258	204.5912	.1630862	.0015579
#3	.2282880	215.6453	20.64100	205.2366	.1623428	.0031097

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9590301	.1824983	1.374430	7.007059	F 12.74690	.1157691
Stddev	.0084264	.0069335	.004934	.237987	.03414	.0003181
%RSD	.8786327	3.799231	.3589615	3.396396	.2678550	.2747261
#1	.9498321	.1745463	1.376676	6.745114	12.72099	.1154908
#2	.9663769	.1856697	1.368773	7.066084	12.73412	.1157007
#3	.9608812	.1872790	1.377841	7.209979	12.78559	.1161158

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-05 Acquired: 12/29/2024 5:17:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK59 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156842	1.851003	10.22808	.0879497	.4368058	.4988144
Stddev	.0008768	.002817	.14672	.0019589	.0089617	.0082195
%RSD	5.590529	.1521765	1.434521	2.227257	2.051636	1.647813
#1	.0154338	1.850600	10.06633	.0890322	.4265526	.4893931
#2	.0149599	1.854000	10.26528	.0891284	.4407215	.5045199
#3	.0166590	1.848410	10.35262	.0856885	.4431432	.5025303

Elem	Li6707
Units	ppm
Avg	.0864391
Stddev	.0023110
%RSD	2.673546
#1	.0838084
#2	.0873666
#3	.0881423

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2358.950	29820.48	2411.441	1499.586	1594.595
Stddev	5.382	70.95	35.763	2.223	3.380
%RSD	.2281592	.2379278	1.483067	.1482201	.2119439
#1	2364.136	29900.37	2450.873	1500.598	1597.127
#2	2359.321	29764.82	2402.345	1501.121	1595.901
#3	2353.391	29796.24	2381.103	1497.037	1590.758

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-06 Acquired: 12/29/2024 5:20:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK60 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0915716	-.010986	.2832068	.1148974	.0173646	32.13985
Stddev	.0029074	.003032	.0028852	.0025624	.0034212	.10699
%RSD	3.174990	27.60208	1.018756	2.230186	19.70206	.3328812
#1	.0942988	-.012609	.2854917	.1169426	.0162253	32.24645
#2	.0919036	-.012862	.2799647	.1157266	.0212101	32.14063
#3	.0885125	-.007488	.2841641	.1120231	.0146585	32.03248

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6830659	.0116551	.0063961	F 1280.607	.0584384	.0596534
Stddev	.0019971	.0000803	.0001797	17.145	.0013118	.0004290
%RSD	.2923776	.6888433	2.809390	1.338823	2.244689	.7190947
#1	.6853652	.0116985	.0062694	1299.837	.0569243	.0597257
#2	.6817630	.0117043	.0066017	1266.918	.0591595	.0591928
#3	.6820695	.0115624	.0063171	1275.065	.0592314	.0600416

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1408047	240.2684	F 35.74600	451.5832	.1413762	.0037222
Stddev	.0028689	1.0899	.13212	1.5789	.0008920	.0007976
%RSD	2.037536	.4536305	.3696201	.3496271	.6309227	21.42909
#1	.1384378	241.4311	35.89820	453.2904	.1413694	.0036192
#2	.1399807	240.1040	35.66083	451.2836	.1404876	.0029811
#3	.1439954	239.2700	35.67896	450.1756	.1422715	.0045664

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.010627	.1292359	.3094582	6.479365	F 10.30781	.1397762
Stddev	.053254	.0045883	.0003535	.106910	.00933	.0015941
%RSD	5.269368	3.550352	.1142445	1.650009	.0904771	1.140450
#1	1.053225	.1299803	.3092977	6.598712	10.29829	.1406093
#2	1.027734	.1334066	.3098635	6.447022	10.30821	.1379382
#3	.950923	.1243209	.3092134	6.392361	10.31693	.1407811

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-06 Acquired: 12/29/2024 5:20:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK60 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124640	2.024179	7.578079	.0404311	.1452891	.5972928
Stddev	.0007770	.020259	.076959	.0018807	.0029389	.0027590
%RSD	6.233721	1.000839	1.015552	4.651503	2.022779	.4619158
#1	.0115668	2.043852	7.634587	.0424390	.1469831	.6001720
#2	.0129159	2.025305	7.609221	.0401434	.1418956	.5946722
#3	.0129093	2.003381	7.490429	.0387109	.1469886	.5970342

Elem	Li6707
Units	ppm
Avg	.0620298
Stddev	.0037694
%RSD	6.076730
#1	.0658606
#2	.0583250
#3	.0619038

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2348.372	29879.00	2455.433	1495.673	1517.876
Stddev	9.108	144.31	15.623	4.947	4.983
%RSD	.3878225	.4829929	.6362813	.3307610	.3282775
#1	2356.026	30045.08	2447.707	1500.150	1521.734
#2	2338.300	29807.81	2445.177	1496.506	1512.250
#3	2350.792	29784.12	2473.414	1490.362	1519.644

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-07 Acquired: 12/29/2024 5:24:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK61 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0561294	-.004241	.2888609	.0351825	-.003683	50.48175
Stddev	.0037445	.007384	.0041454	.0034701	.000817	.10900
%RSD	6.671243	174.1083	1.435071	9.863262	22.18304	.2159254
#1	.0526111	-.005407	.2897051	.0314787	-.004590	50.39015
#2	.0600651	.003656	.2925192	.0357102	-.003004	50.45279
#3	.0557119	-.010972	.2843584	.0383585	-.003455	50.60231

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2911388	.0087156	.0041255	F 836.4036	.0709979	.0787440
Stddev	.0003877	.0000705	.0001609	2.0632	.0003740	.0004463
%RSD	.1331580	.8084076	3.901189	.2466692	.5267139	.5667911
#1	.2915156	.0087692	.0040494	834.5244	.0710724	.0783429
#2	.2907411	.0086358	.0040167	836.0751	.0713290	.0792248
#3	.2911597	.0087419	.0043103	838.6113	.0705923	.0786642

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2524907	133.6679	9.381941	141.8542	.1467043	.0000256
Stddev	.0003468	.4555	.014389	.2909	.0012968	.0007413
%RSD	.1373325	.3407455	.1533713	.2050451	.8839665	2894.422
#1	.2522106	133.1423	9.365794	141.7296	.1481912	.0008111
#2	.2528785	133.9140	9.393405	141.6465	.1458070	-.000662
#3	.2523830	133.9474	9.386624	142.1867	.1461148	-.000073

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.007085	.0961067	.4403763	8.568378	F 10.65091	.0937422
Stddev	.034806	.0096670	.0021097	.112395	.00801	.0011806
%RSD	3.456155	10.05858	.4790775	1.311741	.0751581	1.259430
#1	.996496	.0871421	.4405419	8.441632	10.65715	.0923793
#2	.978802	.0948290	.4381887	8.607582	10.65371	.0944004
#3	1.045956	.1063490	.4423984	8.655920	10.64189	.0944471

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-07 Acquired: 12/29/2024 5:24:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK61 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028357	1.351829	9.833291	.0260086	.4503707	.6284078
Stddev	.0007529	.006871	.076473	.0026560	.0035477	.0024503
%RSD	26.55130	.5082573	.7776960	10.21190	.7877370	.3899211
#1	.0035351	1.358529	9.753196	.0270333	.4469284	.6263037
#2	.0029332	1.352160	9.841138	.0229929	.4540152	.6278217
#3	.0020388	1.344799	9.905538	.0279996	.4501686	.6310980

Elem	Li6707
Units	ppm
Avg	.0996048
Stddev	.0023199
%RSD	2.329051
#1	.0998426
#2	.1017967
#3	.0971753

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2349.726	29747.23	2363.390	1498.670	1615.259
Stddev	9.102	66.32	16.508	1.148	4.329
%RSD	.3873641	.2229307	.6985036	.0765802	.2680189
#1	2341.801	29670.68	2379.995	1497.506	1611.371
#2	2347.710	29787.28	2363.195	1499.800	1614.482
#3	2359.667	29783.72	2346.980	1498.703	1619.924

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-08 Acquired: 12/29/2024 5:28:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK62 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1772098	-.045127	1.574243	.0784852	.0203878	67.71674
Stddev	.0076769	.000612	.004154	.0020144	.0031375	.02784
%RSD	4.332113	1.355244	.2638795	2.566600	15.38902	.0411137
#1	.1857953	-.045452	1.573599	.0805366	.0169396	67.74889
#2	.1748282	-.044421	1.578682	.0765100	.0230743	67.70064
#3	.1710059	-.045507	1.570449	.0784090	.0211496	67.70069

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.248714	.0114954	.0072026	89.57283	.2345846	.0427162
Stddev	.002347	.0001026	.0002287	.20775	.0021903	.0007781
%RSD	.1879136	.8928339	3.174554	.2319319	.9336756	1.821464
#1	1.251423	.0115808	.0069607	89.77917	.2368318	.0419735
#2	1.247409	.0115240	.0074151	89.36370	.2344658	.0435254
#3	1.247310	.0113815	.0072321	89.57563	.2324561	.0426496

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3174107	160.3848	7.932107	27.97843	.1942259	.0031282
Stddev	.0035020	.2650	.014604	.15244	.0008507	.0006152
%RSD	1.103305	.1652180	.1841183	.5448617	.4379708	19.66553
#1	.3197968	160.5573	7.947157	28.15156	.1950366	.0027788
#2	.3190450	160.0797	7.917993	27.91939	.1933403	.0027673
#3	.3133903	160.5173	7.931171	27.86433	.1943007	.0038385

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4319991	.1636533	1.314830	9.112603	F 14.30906	.0971369
Stddev	.0036430	.0042577	.001457	.171340	.02119	.0009781
%RSD	.8432800	2.601648	.1108503	1.880254	.1480831	1.006917
#1	.4334454	.1626780	1.316109	8.914823	14.31005	.0977227
#2	.4278551	.1683139	1.313243	9.215933	14.32973	.0976803
#3	.4346968	.1599678	1.315139	9.207053	14.28739	.0960078

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-08 Acquired: 12/29/2024 5:28:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK62 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076419	4.772336	12.51260	.0906683	.8347487	.0399040
Stddev	.0005826	.012371	.05099	.0021577	.0040581	.0001361
%RSD	7.623845	.2592175	.4074819	2.379736	.4861415	.3409529
#1	.0069695	4.778330	12.56979	.0900939	.8326292	.0400086
#2	.0079597	4.780569	12.49609	.0930550	.8321893	.0397502
#3	.0079964	4.758111	12.47190	.0888559	.8394276	.0399531

Elem	Li6707
Units	ppm
Avg	.0947720
Stddev	.0024720
%RSD	2.608409
#1	.0931982
#2	.0934966
#3	.0976213

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2541.426	31984.60	2424.687	1616.829	1898.902
Stddev	5.565	126.40	10.481	4.946	3.381
%RSD	.2189766	.3951905	.4322721	.3059105	.1780574
#1	2547.746	31872.65	2412.650	1614.864	1902.249
#2	2537.262	31959.48	2429.617	1613.167	1895.488
#3	2539.268	32121.68	2431.795	1622.455	1898.970

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-09 Acquired: 12/29/2024 5:32:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK63 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3052274	-.056846	6.856441	.0942552	.0220678	76.10383
Stddev	.0021500	.003306	.010554	.0040500	.0009298	.35140
%RSD	.7043820	5.816597	.1539270	4.296798	4.213541	.4617342
#1	.3065736	-.060591	6.868625	.0950557	.0210081	75.78940
#2	.3063607	-.055613	6.850538	.0978451	.0224481	76.48315
#3	.3027478	-.054332	6.850158	.0898647	.0227472	76.03894

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.315850	.0128808	.0092017	72.30760	.2603826	.0452362
Stddev	.006378	.0002485	.0001512	.26017	.0017580	.0009039
%RSD	.4847133	1.929209	1.642784	.3598153	.6751729	1.998109
#1	1.310570	.0129536	.0090973	72.06505	.2596406	.0462706
#2	1.322937	.0130847	.0093750	72.58239	.2623900	.0445985
#3	1.314044	.0126040	.0091327	72.27535	.2591172	.0448394

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3502160	179.1011	9.097995	29.53532	.2106955	.0025750
Stddev	.0052331	.7122	.019221	.04411	.0001163	.0010905
%RSD	1.494250	.3976566	.2112717	.1493359	.0552114	42.35058
#1	.3486046	178.6290	9.086189	29.48669	.2105936	.0013615
#2	.3560652	179.9203	9.120175	29.57273	.2106707	.0034730
#3	.3459780	178.7540	9.087621	29.54653	.2108222	.0028905

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4574329	.1768267	1.595150	8.926862	F 14.29517	.1016239
Stddev	.0202018	.0088453	.002381	.032366	.04111	.0031236
%RSD	4.416334	5.002218	.1492434	.3625722	.2875851	3.073652
#1	.4804210	.1777004	1.597672	8.904241	14.30884	.0998556
#2	.4425079	.1852027	1.594835	8.963937	14.32770	.1052305
#3	.4493699	.1675770	1.592942	8.912409	14.24896	.0997858

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-09 Acquired: 12/29/2024 5:32:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK63 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077938	4.675190	10.65209	.3021114	.8746367	.0112345
Stddev	.0005710	.017025	.02070	.0004802	.0011545	.0010822
%RSD	7.325919	.3641585	.1942916	.1589500	.1319978	9.632596
#1	.0073080	4.692611	10.66774	.3023215	.8759624	.0101868
#2	.0076507	4.674366	10.62863	.3024507	.8738526	.0111686
#3	.0084227	4.658591	10.65991	.3015619	.8740951	.0123481

Elem	Li6707
Units	ppm
Avg	.1109244
Stddev	.0026309
%RSD	2.371814
#1	.1138036
#2	.1103242
#3	.1086455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2482.473	31239.24	2400.751	1582.843	1830.902
Stddev	2.290	67.25	8.653	8.121	6.401
%RSD	.0922415	.2152860	.3604223	.5130356	.3496219
#1	2483.150	31196.17	2390.762	1577.810	1828.852
#2	2479.921	31204.81	2405.563	1578.508	1825.776
#3	2484.348	31316.74	2405.928	1592.212	1838.077

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-10 Acquired: 12/29/2024 5:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK64 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1974355	-.059533	1.700388	.0996219	.0270805	84.18696
Stddev	.0049207	.002272	.005513	.0033009	.0027521	.41702
%RSD	2.492293	3.815502	.3242068	3.313403	10.16253	.4953540
#1	.2005982	-.058314	1.697743	.1024758	.0267750	83.73252
#2	.1917662	-.062154	1.696697	.0960070	.0244940	84.27625
#3	.1999420	-.058132	1.706725	.1003830	.0299726	84.55210

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.365254	.0136776	.0094493	89.67932	.1858818	.0487252
Stddev	.004206	.0003160	.0000770	.32900	.0023113	.0004574
%RSD	.3080935	2.310506	.8145969	.3668669	1.243448	.9387305
#1	1.360625	.0134100	.0093793	89.33749	.1883477	.0489776
#2	1.366295	.0140263	.0094369	89.70668	.1855332	.0490009
#3	1.368842	.0135966	.0095317	89.99378	.1837646	.0481973

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2560615	190.4497	9.787138	31.31603	.2056733	.0016976
Stddev	.0077295	1.0589	.041740	.19988	.0007796	.0004471
%RSD	3.018613	.5559855	.4264785	.6382799	.3790575	26.33472
#1	.2471876	189.3964	9.743745	31.09326	.2049976	.0018436
#2	.2613264	190.4388	9.790668	31.47970	.2054961	.0011958
#3	.2596705	191.5141	9.827000	31.37514	.2065263	.0020534

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6152726	.1882092	1.334808	9.518473	F 15.02153	.1036742
Stddev	.0162791	.0113016	.014670	.141222	.06160	.0016359
%RSD	2.645837	6.004810	1.099064	1.483664	.4100459	1.577937
#1	.6326998	.2012483	1.351123	9.553334	15.00712	.1018254
#2	.6004574	.1812287	1.330601	9.363086	14.96841	.1049344
#3	.6126608	.1821507	1.322702	9.639000	15.08905	.1042627

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-10 Acquired: 12/29/2024 5:36:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK64 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071673	3.982809	12.18751	.0684094	.8825437	.0121415
Stddev	.0004559	.030842	.11801	.0002146	.0036209	.0006912
%RSD	6.360544	.7743814	.9683261	.3136873	.4102837	5.692531
#1	.0066767	3.965226	12.05669	.0683678	.8863707	.0128754
#2	.0072473	3.964778	12.21989	.0686418	.8791718	.0120464
#3	.0075778	4.018421	12.28596	.0682187	.8820885	.0115029

Elem	Li6707
Units	ppm
Avg	.1273966
Stddev	.0021864
%RSD	1.716207
#1	.1253916
#2	.1297277
#3	.1270705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2572.984	32268.43	2506.579	1640.730	1849.108
Stddev	4.871	234.74	21.070	15.665	5.986
%RSD	.1893314	.7274645	.8405707	.9547716	.3237188
#1	2568.625	32011.36	2529.833	1623.000	1848.226
#2	2578.242	32322.52	2501.147	1646.490	1855.486
#3	2572.086	32471.40	2488.758	1652.700	1843.612

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-11 Acquired: 12/29/2024 5:40:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK65 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0856718	-.049534	.6231302	.0844031	.0215798	77.32833
Stddev	.0021571	.005264	.0049197	.0019377	.0013401	.11801
%RSD	2.517820	10.62622	.7895194	2.295779	6.209956	.1526095
#1	.0855312	-.045213	.6264221	.0824867	.0219993	77.19670
#2	.0835884	-.055396	.6254938	.0843613	.0226599	77.42466
#3	.0878957	-.047994	.6174747	.0863614	.0200801	77.36364

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9927546	.0123258	.0056652	125.5683	.1369518	.0406366
Stddev	.0031923	.0001423	.0000710	.1696	.0013469	.0011539
%RSD	.3215637	1.154541	1.253212	.1351002	.9834747	2.839512
#1	.9891286	.0122224	.0057147	125.3991	.1382376	.0414895
#2	.9951421	.0122668	.0055838	125.7384	.1355512	.0410967
#3	.9939929	.0124881	.0056970	125.5674	.1370665	.0393237

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0927203	176.7826	7.227399	34.93200	.1592000	.0004723
Stddev	.0033898	.2823	.011247	.16993	.0020886	.0003239
%RSD	3.655934	.1597086	.1556097	.4864622	1.311929	68.56529
#1	.0933037	176.4935	7.215461	34.81269	.1610516	.0008134
#2	.0957806	177.0577	7.237795	35.12656	.1596124	.0004347
#3	.0890767	176.7965	7.228942	34.85674	.1569360	.0001689

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4550182	.1595386	.5988381	7.324351	F 10.57929	.0832604
Stddev	.0137849	.0132629	.0022461	.135596	.06766	.0011576
%RSD	3.029532	8.313281	.3750750	1.851307	.6395239	1.390273
#1	.4455032	.1747105	.5989719	7.393454	10.61480	.0843975
#2	.4708266	.1537596	.5965282	7.411474	10.62180	.0820834
#3	.4487247	.1501458	.6010144	7.168124	10.50127	.0833002

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-11 Acquired: 12/29/2024 5:40:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK65 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055100	2.065211	12.53455	.0318702	.8139354	.0000836
Stddev	.0003540	.015534	.10898	.0019938	.0052253	.0002811
%RSD	6.424885	.7521852	.8694455	6.256036	.6419821	336.3877
#1	.0051465	2.074523	12.46103	.0336950	.8182593	-.000063
#2	.0058537	2.073833	12.65976	.0321735	.8081290	.000408
#3	.0055298	2.047279	12.48287	.0297421	.8154178	-.000093

Elem	Li6707
Units	ppm
Avg	.1146932
Stddev	.0005406
%RSD	.4713094
#1	.1152969
#2	.1145288
#3	.1142540

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2511.335	31715.69	2445.539	1607.609	1830.083
Stddev	13.193	135.72	15.833	14.912	14.933
%RSD	.5253377	.4279194	.6474174	.9275658	.8159720
#1	2507.932	31576.58	2455.243	1594.447	1824.344
#2	2500.177	31847.74	2427.269	1623.804	1818.871
#3	2525.896	31722.74	2454.106	1604.574	1847.034

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-12 Acquired: 12/29/2024 5:44:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK66 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0723666	-.028451	.1999403	.0620444	.0087701	68.09139	.7478586
Stddev	.0070548	.003787	.0027018	.0057364	.0039757	.26539	.0046849
%RSD	9.748750	13.31166	1.351323	9.245672	45.33279	.3897581	.6264469
#1	.0804843	-.031527	.2030248	.0598456	.0096648	67.81583	.7428604
#2	.0677182	-.029605	.1988039	.0577326	.0044233	68.34529	.7521499
#3	.0688973	-.024221	.1979924	.0685549	.0122223	68.11303	.7485657

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104071	.0040366	459.6733	.1046841	.0674352	.1099543	167.4490
Stddev	.0001301	.0000467	2.2102	.0009164	.0004888	.0098897	.7110
%RSD	1.249742	1.157238	.4808162	.8753999	.7247722	8.994371	.4245969
#1	.0105249	.0040441	457.3528	.1046789	.0674868	.0986522	166.7167
#2	.0102675	.0040791	461.7536	.1037703	.0669227	.1141900	168.1366
#3	.0104290	.0039866	459.9133	.1056031	.0678961	.1170206	167.4937

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.540550	98.94037	.2133531	-.000726	.9333871	.1439055	.3814760
Stddev	.048132	.03148	.0003653	.000139	.0097480	.0029638	.0009594
%RSD	.5044946	.0318211	.1712345	19.16038	1.044371	2.059571	.2514855
#1	9.487640	98.97600	.2137746	-.000699	.9326486	.1471842	.3810279
#2	9.581736	98.91629	.2131581	-.000877	.9240293	.1431158	.3808227
#3	9.552274	98.92882	.2131266	-.000603	.9434833	.1414165	.3825774

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.924004	8.083461	.0789607	.0049416	.9564219	11.72789	.0297579
Stddev	.097048	.004079	.0029306	.0002573	.0110116	.00216	.0007003
%RSD	1.401617	.0504605	3.711491	5.207241	1.151330	.0184486	2.353459
#1	6.866937	8.080775	.0804093	.0048785	.9684978	11.72605	.0290264
#2	7.036059	8.088155	.0808849	.0052246	.9538310	11.72734	.0298251
#3	6.869017	8.081454	.0755879	.0047217	.9469367	11.73027	.0304223

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-12 Acquired: 12/29/2024 5:44:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK66 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.143806	.4215205	.1161305
Stddev	.009079	.0019112	.0000846
%RSD	.7937555	.4534110	.0728253
#1	1.133334	.4193293	.1161986
#2	1.148608	.4223885	.1160358
#3	1.149475	.4228437	.1161570

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2359.626	29879.37	2331.677	1507.024	1705.183
Stddev	1.329	38.80	5.807	4.350	1.304
%RSD	.0563254	.1298573	.2490695	.2886352	.0764589
#1	2358.233	29922.38	2337.302	1508.438	1706.522
#2	2359.764	29868.73	2325.702	1510.491	1705.108
#3	2360.880	29846.99	2332.028	1502.144	1703.918

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-13 Acquired: 12/29/2024 5:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK67 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0758754	-.038102	.1381964	.0697540	.0157117	77.17285	1.024140
Stddev	.0078573	.001985	.0026033	.0032259	.0046717	.24753	.003895
%RSD	10.35553	5.208826	1.883774	4.624672	29.73372	.3207457	.3803045
#1	.0726135	-.035998	.1400546	.0691431	.0205726	77.28798	1.023102
#2	.0701745	-.038367	.1393136	.0668772	.0112557	76.88873	1.020870
#3	.0848383	-.039941	.1352209	.0732417	.0153067	77.34185	1.028449

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111828	.0046105	503.1181	.1248808	.0839933	.1328812	186.2644
Stddev	.0001020	.0000983	1.4539	.0003841	.0009369	.0005133	.3033
%RSD	.9124745	2.132665	.2889828	.3075722	1.115434	.3862836	.1628595
#1	.0110703	.0046794	504.2533	.1248793	.0838147	.1327772	186.3860
#2	.0112694	.0046541	501.4793	.1244974	.0831585	.1334386	185.9192
#3	.0112087	.0044979	503.6216	.1252656	.0850066	.1324279	186.4882

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.11203	124.6678	.2566424	.0000734	1.078084	.1831331	.3951026
Stddev	.01795	.4178	.0011576	.0000753	.018646	.0071546	.0023392
%RSD	.1615813	.3351312	.4510704	102.4898	1.729561	3.906781	.5920448
#1	11.11280	124.7951	.2578600	.0000481	1.081235	.1910289	.3929970
#2	11.09370	124.2011	.2555559	.0000141	1.094953	.1812900	.3976205
#3	11.12959	125.0071	.2565113	.0001581	1.058063	.1770803	.3946902

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.653554	8.877844	.0922579	.0029555	.8017764	11.61924	.0242087
Stddev	.115304	.000894	.0014318	.0001968	.0020927	.05300	.0025895
%RSD	1.332445	.0100669	1.551909	6.660444	.2610066	.4561460	10.69676
#1	8.637716	8.878757	.0935085	.0027438	.8007720	11.62641	.0271789
#2	8.775958	8.876971	.0906961	.0029896	.8041819	11.56302	.0230221
#3	8.546988	8.877802	.0925692	.0031330	.8003752	11.66829	.0224250

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-13 Acquired: 12/29/2024 5:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK67 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.382270	.4564149	.1402852
Stddev	.011329	.0011561	.0024003
%RSD	.8195801	.2533050	1.711002
#1	1.382961	.4577497	.1377988
#2	1.370612	.4557689	.1425890
#3	1.393238	.4557262	.1404677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2381.412	30121.45	2386.537	1514.983	1673.890
Stddev	7.562	64.81	10.795	9.077	5.172
%RSD	.3175371	.2151615	.4523426	.5991477	.3089998
#1	2374.712	30156.37	2383.411	1517.992	1668.588
#2	2379.912	30046.67	2398.550	1504.784	1674.161
#3	2389.611	30161.31	2377.650	1522.173	1678.921

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-14 Acquired: 12/29/2024 5:51:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK68 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0846135	-.034858	.1052100	.0683544	.0112135	60.36573	.7280546
Stddev	.0014541	.006630	.0014910	.0059055	.0037125	.21235	.0016614
%RSD	1.718514	19.01988	1.417167	8.639543	33.10765	.3517761	.2281957
#1	.0862727	-.038335	.1056215	.0615611	.0090034	60.59096	.7297819
#2	.0835613	-.039025	.1035565	.0712378	.0091374	60.33706	.7264681
#3	.0840063	-.027213	.1064521	.0722644	.0154997	60.16917	.7279136

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104786	.0036321	614.6531	.0892018	.0796392	.1478544	182.2014
Stddev	.0001279	.0001739	.8720	.0012255	.0005072	.0028846	.4397
%RSD	1.220858	4.787905	.1418744	1.373872	.6368781	1.950967	.2413050
#1	.0105948	.0037949	615.6598	.0880468	.0792480	.1482764	182.6611
#2	.0103415	.0036526	614.1676	.0904874	.0802122	.1505048	182.1583
#3	.0104995	.0034489	614.1318	.0890713	.0794572	.1447821	181.7849

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.692801	134.4452	.1975698	.0014348	1.037561	.1371700	.3541114
Stddev	.028780	.2465	.0006550	.0004261	.041676	.0034015	.0022274
%RSD	.3741205	.1833290	.3315185	29.69585	4.016754	2.479801	.6290205
#1	7.723682	134.6553	.1976698	.0012794	1.085165	.1399730	.3558903
#2	7.666726	134.5063	.1981691	.0011083	1.007655	.1381514	.3516132
#3	7.687995	134.1739	.1968706	.0019168	1.019861	.1333857	.3548306

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.641863	6.945605	.0768786	.0035840	.7054940	11.01995	.0226720
Stddev	.150133	.009255	.0011097	.0004455	.0092950	.17242	.0024640
%RSD	2.260403	.1332451	1.443447	12.42944	1.317512	1.564577	10.86811
#1	6.546556	6.937762	.0769320	.0032308	.6976304	11.21637	.0254885
#2	6.814925	6.955813	.0779606	.0034369	.7157518	10.89359	.0209143
#3	6.564108	6.943240	.0757431	.0040845	.7030997	10.94990	.0216133

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-14 Acquired: 12/29/2024 5:51:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK68 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.016719	.4994746	.1153063
Stddev	.004315	.0027313	.0057200
%RSD	.4243599	.5468389	4.960715
#1	1.017333	.4972022	.1198275
#2	1.012131	.4987167	.1088759
#3	1.020694	.5025048	.1172156

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2307.325	29265.47	2311.527	1473.202	1674.446
Stddev	8.028	149.58	22.053	1.106	5.278
%RSD	.3479399	.5111116	.9540267	.0750633	.3151929
#1	2305.953	29414.37	2286.596	1473.964	1675.960
#2	2315.950	29115.22	2328.481	1471.934	1678.802
#3	2300.071	29266.80	2319.504	1473.709	1668.577

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-15 Acquired: 12/29/2024 5:55:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK69 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1333971	-.112324	1.049527	.1393848	.0471621	30.18983	.9996031
Stddev	.0047363	.004670	.001609	.0037730	.0024975	.14551	.0045574
%RSD	3.550525	4.157487	.1533048	2.706894	5.295669	.4819850	.4559244
#1	.1350647	-.115499	1.050365	.1366468	.0480760	30.22300	1.001656
#2	.1370742	-.114511	1.050544	.1436886	.0490740	30.31590	1.002773
#3	.1280526	-.106962	1.047672	.1378190	.0443363	30.03060	.994380

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0169341	.0040573	31.87358	.0744970	-.019181	.4598296	240.1972
Stddev	.0001912	.0000923	.16487	.0003533	.000952	.0049489	1.2795
%RSD	1.129162	2.274534	.5172594	.4742976	4.965889	1.076249	.5327078
#1	.0171534	.0039639	31.85066	.0745243	-.019132	.4543409	240.3024
#2	.0168466	.0040597	32.04870	.0741308	-.020157	.4639514	241.4209
#3	.0168023	.0041484	31.72136	.0748359	-.018254	.4611965	238.8683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.008950	8.350942	.1542603	.0006959	.5178076	.1579456	.8638084
Stddev	.013590	.125635	.0008047	.0007228	.0160958	.0065776	.0017016
%RSD	.6764954	1.504441	.5216273	103.8570	3.108457	4.164496	.1969899
#1	2.004570	8.234570	.1536501	.0008209	.5326901	.1654747	.8656623
#2	2.024190	8.484143	.1551723	.0013480	.5007248	.1550476	.8623177
#3	1.998089	8.334112	.1539586	-.000081	.5200077	.1533147	.8634451

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.870741	7.298003	.1030771	.0167174	9.711495	5.925696	.0726667
Stddev	.104881	.013049	.0043147	.0005324	.018517	.070427	.0020796
%RSD	2.153294	.1788038	4.185929	3.184677	.1906681	1.188498	2.861799
#1	4.775371	7.293836	.0989891	.0168151	9.690141	5.976035	.0702895
#2	4.983067	7.312626	.1075875	.0171942	9.723093	5.955839	.0735617
#3	4.853784	7.287546	.1026545	.0161429	9.721253	5.845215	.0741490

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-15 Acquired: 12/29/2024 5:55:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK69 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.771090	-.022286	.0288864
Stddev	.016219	.000230	.0034522
%RSD	.9157388	1.031081	11.95078
#1	1.769775	-.022026	.0251851
#2	1.787926	-.022372	.0320187
#3	1.755568	-.022460	.0294553

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2315.394	29275.74	2200.502	1490.549	1928.086
Stddev	2.158	153.81	14.886	7.601	1.548
%RSD	.0931872	.5253864	.6764681	.5099358	.0803105
#1	2313.822	29333.88	2190.292	1494.886	1926.890
#2	2314.506	29392.00	2193.631	1494.988	1927.532
#3	2317.854	29101.33	2217.582	1481.772	1929.835

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-16 Acquired: 12/29/2024 5:59:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK70 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1336820	-.142851	1.050578	.1771324	.0601715	31.97975	1.208111
Stddev	.0043144	.000741	.003130	.0012779	.0011020	.08823	.000857
%RSD	3.227384	.5186113	.2978927	.7214495	1.831392	.2758890	.0709097
#1	.1386597	-.142260	1.050898	.1756591	.0589109	31.99003	1.208998
#2	.1313695	-.142609	1.053536	.1777976	.0606515	31.88684	1.207289
#3	.1310169	-.143682	1.047301	.1779405	.0609520	32.06239	1.208045

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214400	.0042534	27.58952	.0778678	-.036172	.2223194	299.5287
Stddev	.0000525	.0000634	.08953	.0006702	.000827	.0063943	.5585
%RSD	.2449247	1.491245	.3245230	.8607421	2.287610	2.876167	.1864649
#1	.0214587	.0042134	27.60343	.0772553	-.035289	.2254257	298.9188
#2	.0214806	.0043265	27.49384	.0777642	-.036930	.2149654	299.6520
#3	.0213807	.0042202	27.67129	.0785838	-.036298	.2265671	300.0152

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.054773	6.423049	.1857537	.0006928	.5822055	.1737144	.6415291
Stddev	.006265	.047813	.0009054	.0008695	.0176035	.0117732	.0051808
%RSD	.3048985	.7443940	.4874300	125.5092	3.023592	6.777312	.8075755
#1	2.061004	6.371249	.1867831	-.000311	.5632352	.1756780	.6440900
#2	2.054841	6.465491	.1853971	.001208	.5980136	.1610829	.6449308
#3	2.048474	6.432407	.1850809	.001182	.5853678	.1843823	.6355665

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.200999	7.357982	.1205428	.0239984	16.06078	6.095729	.0841838
Stddev	.156918	.027102	.0036972	.0004921	.08920	.052085	.0009505
%RSD	3.017066	.3683287	3.067091	2.050573	.5553715	.8544556	1.129124
#1	5.154160	7.384678	.1195436	.0245627	16.16041	6.078262	.0849663
#2	5.072834	7.358776	.1246368	.0237743	16.03356	6.054622	.0844591
#3	5.376002	7.330492	.1174479	.0236582	15.98836	6.154303	.0831260

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-16 Acquired: 12/29/2024 5:59:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK70 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.827352	-.033390	.0350230
Stddev	.005772	.000377	.0033058
%RSD	.3158412	1.130518	9.438849
#1	1.827256	-.032955	.0388329
#2	1.821629	-.033577	.0329137
#3	1.833171	-.033637	.0333225

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2339.636	29602.04	2222.827	1506.388	1907.445
Stddev	2.414	95.55	15.553	11.068	4.398
%RSD	.1031649	.3227693	.6996912	.7347700	.2305568
#1	2338.941	29579.41	2228.532	1504.864	1902.509
#2	2342.321	29519.84	2234.722	1496.160	1910.946
#3	2337.646	29706.87	2205.227	1518.139	1908.879

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-17 Acquired: 12/29/2024 6:03:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK71 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0883476	-.043494	1.412623	.0714020	.0169952	53.06830
Stddev	.0006967	.000493	.001638	.0025598	.0026671	.21160
%RSD	.7885820	1.134262	.1159256	3.585028	15.69322	.3987254
#1	.0879635	-.042933	1.413673	.0686100	.0195650	52.82680
#2	.0891518	-.043858	1.410736	.0736383	.0142404	53.15697
#3	.0879275	-.043693	1.413460	.0719576	.0171803	53.22114

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.409265	.0114617	.0046015	63.06216	.0836971	.0507699
Stddev	.004012	.0000677	.0000710	.10997	.0009431	.0005845
%RSD	.2847211	.5911380	1.543811	.1743889	1.126854	1.151362
#1	1.404635	.0114102	.0046766	63.04488	.0847051	.0509009
#2	1.411420	.0114364	.0045925	63.17975	.0835502	.0501310
#3	1.411739	.0115384	.0045354	62.96185	.0828361	.0512779

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2745474	139.7822	7.667890	11.55595	.1591383	-.000033
Stddev	.0023709	.5555	.033561	.02795	.0007563	.000253
%RSD	.8635790	.3973895	.4376758	.2418987	.4752456	768.6971
#1	.2748414	139.1897	7.629813	11.56629	.1595406	.000257
#2	.2767576	139.8656	7.680687	11.52430	.1582659	-.000210
#3	.2720432	140.2912	7.693169	11.57725	.1596085	-.000146

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8067693	.1867929	.9982014	5.532837	F 19.79749	.0756062
Stddev	.0237869	.0067872	.0007653	.033203	.01256	.0032697
%RSD	2.948411	3.633543	.0766681	.6001022	.0634659	4.324607
#1	.8224324	.1941865	.9987066	5.570910	19.81011	.0722692
#2	.7793976	.1808451	.9973209	5.517706	19.78498	.0788041
#3	.8184778	.1853471	.9985767	5.509895	19.79737	.0757452

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-17 Acquired: 12/29/2024 6:03:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK71 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0180004	4.098189	8.818198	.0645556	.8698943	.3881414
Stddev	.0003458	.016785	.067085	.0004748	.0064869	.0016368
%RSD	1.921061	.4095596	.7607506	.7355578	.7457093	.4217091
#1	.0179488	4.105557	8.867397	.0642121	.8631366	.3865141
#2	.0183691	4.078980	8.741783	.0643573	.8760713	.3897876
#3	.0176832	4.110029	8.845415	.0650975	.8704749	.3881227

Elem	Li6707
Units	ppm
Avg	.0821953
Stddev	.0037108
%RSD	4.514578
#1	.0779119
#2	.0842432
#3	.0844309

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2474.293	31334.38	2377.805	1595.478	1911.232
Stddev	5.745	161.04	4.391	9.460	1.551
%RSD	.2321796	.5139380	.1846828	.5929006	.0811510
#1	2480.426	31415.74	2372.746	1605.812	1912.901
#2	2469.037	31148.90	2380.635	1587.246	1909.834
#3	2473.417	31438.52	2380.035	1593.376	1910.963

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-18 Acquired: 12/29/2024 6:07:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1131910	-.028385	.9370323	.0952941	.0163909	77.71877
Stddev	.0050820	.003095	.0029153	.0049769	.0037286	.19316
%RSD	4.489792	10.90513	.3111212	5.222716	22.74809	.2485338
#1	.1073789	-.025236	.9338683	.0980300	.0202929	77.58178
#2	.1153961	-.028494	.9376188	.0895494	.0128640	77.63484
#3	.1167981	-.031424	.9396097	.0983030	.0160158	77.93970

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.652985	.0120279	.0083029	155.9052	.1203978	.0716115
Stddev	.004788	.0001725	.0001763	.4930	.0004286	.0010036
%RSD	.2896277	1.434334	2.123325	.3162372	.3559983	1.401497
#1	1.648263	.0118523	.0081219	155.7314	.1199271	.0722864
#2	1.652856	.0121972	.0083125	155.5226	.1207656	.0720899
#3	1.657835	.0120343	.0084741	156.4616	.1205008	.0704581

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1936713	181.4264	19.62952	26.84380	.1778149	.0041742
Stddev	.0077990	.5334	.06232	.17247	.0012460	.0012061
%RSD	4.026913	.2940270	.3174586	.6424935	.7007143	28.89490
#1	.2025999	181.3730	19.59664	26.77005	.1791268	.0027911
#2	.1881898	180.9216	19.59052	26.72046	.1766474	.0050068
#3	.1902244	181.9845	19.70138	27.04088	.1776706	.0047249

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5000218	.1737722	.6826232	8.296119	F 17.13401	.0917602
Stddev	.0187225	.0040979	.0009466	.027355	.02098	.0010719
%RSD	3.744328	2.358180	.1386696	.3297287	.1224479	1.168147
#1	.4878397	.1720757	.6815977	8.314816	17.15774	.0908835
#2	.4906459	.1784458	.6828084	8.308817	17.12637	.0914419
#3	.5215798	.1707950	.6834636	8.264723	17.11793	.0929552

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-18 Acquired: 12/29/2024 6:07:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133149	3.072331	13.72886	.0380256	.6095398	.1268994
Stddev	.0003510	.004743	.06321	.0008685	.0032875	.0009084
%RSD	2.636247	.1543698	.4604460	2.283889	.5393384	.7158444
#1	.0129102	3.068744	13.67106	.0381453	.6058931	.1260147
#2	.0134974	3.077709	13.79636	.0371035	.6104503	.1268536
#3	.0135370	3.070541	13.71915	.0388280	.6122761	.1278298

Elem	Li6707
Units	ppm
Avg	.1224332
Stddev	.0031288
%RSD	2.555540
#1	.1192596
#2	.1255153
#3	.1225245

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.149	33386.78	2599.598	1694.118	1831.455
Stddev	10.681	108.75	14.387	11.044	7.613
%RSD	.4034771	.3257234	.5534201	.6519184	.4156573
#1	2634.820	33470.25	2615.890	1702.913	1822.683
#2	2653.562	33426.28	2594.262	1697.717	1835.356
#3	2653.067	33263.80	2588.642	1681.723	1836.327

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-19 Acquired: 12/29/2024 6:11:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1127858	-.034089	.9295442	.0941511	.0180014	78.13528
Stddev	.0027788	.005615	.0028094	.0062677	.0053144	.17874
%RSD	2.463748	16.47270	.3022311	6.657102	29.52239	.2287629
#1	.1095793	-.036716	.9315446	.1001068	.0214930	78.13274
#2	.1142871	-.027642	.9307557	.0947345	.0118853	77.95782
#3	.1144910	-.037910	.9263324	.0876121	.0206259	78.31528

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.664329	.0123977	.0081952	156.0859	.1200267	.0706215
Stddev	.002753	.0001137	.0001185	.4903	.0011187	.0009441
%RSD	.1653940	.9166907	1.445314	.3141476	.9320141	1.336847
#1	1.666465	.0122683	.0083058	155.9488	.1210346	.0710923
#2	1.661223	.0124431	.0080703	155.6787	.1202225	.0712377
#3	1.665299	.0124816	.0082096	156.6302	.1188231	.0695346

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1978093	182.3968	19.69838	26.98928	.1773787	.0047093
Stddev	.0029063	.2526	.04413	.13063	.0005219	.0005820
%RSD	1.469218	.1384634	.2240036	.4840237	.2942359	12.35747
#1	.1956251	182.6827	19.70525	26.94417	.1779811	.0051822
#2	.2011078	182.2041	19.65122	26.88717	.1770941	.0040594
#3	.1966951	182.3036	19.73866	27.13649	.1770610	.0048864

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5172588	.1809578	.6728654	8.178783	F 17.03416	.0879326
Stddev	.0292483	.0132737	.0015767	.101844	.01034	.0017995
%RSD	5.654484	7.335216	.2343312	1.245222	.0606879	2.046431
#1	.5330862	.1962664	.6712130	8.292746	17.04190	.0886058
#2	.5351828	.1739565	.6730296	8.146933	17.02242	.0892983
#3	.4835075	.1726506	.6743537	8.096672	17.03816	.0858935

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-19 Acquired: 12/29/2024 6:11:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133629	3.059741	13.95828	.0409161	.6224470	.1256119
Stddev	.0001540	.018620	.06331	.0021235	.0029997	.0010632
%RSD	1.152654	.6085488	.4535312	5.189795	.4819212	.8464124
#1	.0131865	3.060415	13.97029	.0385846	.6249520	.1246579
#2	.0134712	3.078015	13.88983	.0427393	.6191228	.1254199
#3	.0134308	3.040793	14.01471	.0414245	.6232661	.1267581

Elem	Li6707
Units	ppm
Avg	.1224152
Stddev	.0041136
%RSD	3.360401
#1	.1202943
#2	.1197949
#3	.1271565

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2648.382	33199.59	2532.049	1690.531	1836.363
Stddev	3.337	56.20	10.425	3.832	2.750
%RSD	.1260020	.1692673	.4117414	.2266552	.1497374
#1	2644.536	33251.72	2536.098	1694.846	1833.199
#2	2650.101	33206.99	2539.843	1687.525	1838.178
#3	2650.509	33140.06	2520.207	1689.223	1837.711

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-18LX5 Acquired: 12/29/2024 6:15:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0258043	-.007637	.1911073	.0200979	.0029228	18.79954	.3981297
Stddev	.0059289	.002991	.0012710	.0071973	.0045150	.07303	.0004823
%RSD	22.97640	39.15939	.6650855	35.81108	154.4720	.3884826	.1211311
#1	.0314518	-.009968	.1922517	.0242630	-.001125	18.77625	.3983721
#2	.0196292	-.008677	.1913309	.0117872	.007792	18.74099	.3975743
#3	.0263319	-.004265	.1897393	.0242434	.002102	18.88137	.3984425

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030670	.0014553	22.00001	.0277944	.0197317	.0469037	44.77179
Stddev	.0002004	.0000938	.07001	.0007174	.0004054	.0085866	.09762
%RSD	6.534006	6.447956	.3182411	2.581132	2.054323	18.30683	.2180447
#1	.0032927	.0014907	21.96367	.0279086	.0193889	.0544604	44.66510
#2	.0029099	.0013489	21.95564	.0270268	.0201791	.0375664	44.85665
#3	.0029984	.0015263	22.08072	.0284479	.0196272	.0486844	44.79362

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.854049	6.399572	.0358759	.0005338	.1144555	.0381684	.1703840
Stddev	.001986	.147713	.0004322	.0017337	.0042717	.0060753	.0007017
%RSD	.0409204	2.308171	1.204783	324.7828	3.732224	15.91710	.4118159
#1	4.853636	6.403733	.0356928	-.001337	.1169997	.0361637	.1711936
#2	4.852302	6.249822	.0355653	.000852	.1095237	.0333488	.1700061
#3	4.856209	6.545161	.0363695	.002086	.1168431	.0449927	.1699523

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.915323	3.616888	.0167355	.0037684	.6132401	3.073096	.0075499
Stddev	.120081	.010158	.0007585	.0002428	.0078142	.015798	.0000864
%RSD	6.269506	.2808625	4.532552	6.442688	1.274240	.5140674	1.144702
#1	1.850205	3.611959	.0158840	.0040370	.6221950	3.055581	.0074538
#2	1.841867	3.610134	.0173389	.0035646	.6097211	3.077439	.0075743
#3	2.053897	3.628570	.0169837	.0037035	.6078042	3.086269	.0076214

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-18LX5 Acquired: 12/29/2024 6:15:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1588976	.0105170	.0330730
Stddev	.0015306	.0006870	.0027473
%RSD	.9632747	6.532563	8.306669
#1	.1604490	.0110402	.0344779
#2	.1588552	.0107718	.0348337
#3	.1573886	.0097390	.0299074

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2219.708	27995.92	2083.299	1426.590	1887.626
Stddev	2.600	33.30	2.764	6.247	2.617
%RSD	.1171471	.1189605	.1326506	.4379051	.1386465
#1	2222.701	27976.88	2084.371	1420.747	1890.489
#2	2218.417	27976.50	2085.366	1425.849	1887.035
#3	2218.005	28034.37	2080.160	1433.175	1885.356

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-20 Acquired: 12/29/2024 6:19:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1941696	.0421303	.9339330	.2334791	.1685444	79.49120
Stddev	.0033098	.0048281	.0005072	.0027698	.0021317	.28303
%RSD	1.704609	11.45980	.0543042	1.186305	1.264796	.3560532
#1	.1978570	.0406474	.9336689	.2366534	.1692167	79.28617
#2	.1931959	.0382177	.9336123	.2322298	.1661576	79.81412
#3	.1914558	.0475259	.9345177	.2315540	.1702590	79.37331

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.772493	.0916682	.1020510	152.6755	.4473109	1.037699
Stddev	.018479	.0008932	.0000468	.8654	.0012620	.002331
%RSD	.3871934	.9743977	.0458438	.5668474	.2821274	.2246274
#1	4.766315	.0913189	.1020226	151.9294	.4460195	1.039803
#2	4.793270	.0926832	.1020253	153.6243	.4473720	1.035193
#3	4.757895	.0910023	.1021050	152.4729	.4485413	1.038103

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5553803	179.1122	19.95309	26.48362	1.141501	.0622330
Stddev	.0068237	.9449	.08325	.17184	.001414	.0010059
%RSD	1.228655	.5275712	.4172369	.6488436	.1239092	1.616288
#1	.5512469	178.1775	19.88623	26.30702	1.142716	.0611967
#2	.5632564	180.0671	20.04634	26.65025	1.141840	.0622968
#3	.5516377	179.0920	19.92671	26.49360	1.139949	.0632054

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5990579	.9669547	1.418280	8.164786	F 16.42230	.0829575
Stddev	.0079218	.0067295	.004159	.089066	.01938	.0044895
%RSD	1.322372	.6959498	.2932238	1.090850	.1180027	5.411844
#1	.5905187	.9591965	1.420838	8.134597	16.44460	.0783578
#2	.6061676	.9704548	1.420521	8.265022	16.41268	.0831866
#3	.6004874	.9712129	1.413482	8.094739	16.40960	.0873281

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5032-20 Acquired: 12/29/2024 6:19:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK72S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126954	2.916389	13.86411	.0381232	.6070057	.1236198
Stddev	.0000841	.010346	.11630	.0011988	.0036438	.0005994
%RSD	.6625626	.3547408	.8388314	3.144586	.6002938	.4848581
#1	.0126131	2.904459	13.85625	.0393369	.6073084	.1233597
#2	.0127812	2.921806	13.98413	.0380929	.6032200	.1243053
#3	.0126920	2.922900	13.75194	.0369398	.6104887	.1231944

Elem	Li6707
Units	ppm
Avg	.1217761
Stddev	.0021931
%RSD	1.800939
#1	.1227595
#2	.1192634
#3	.1233053

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2632.283	33368.90	2531.947	1688.740	1844.623
Stddev	12.673	220.11	24.932	11.702	7.182
%RSD	.4814593	.6596225	.9846994	.6929488	.3893622
#1	2645.794	33614.40	2555.692	1702.171	1851.899
#2	2630.398	33303.09	2505.977	1680.742	1844.433
#3	2620.658	33189.20	2534.172	1683.307	1837.538

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-21 Acquired: 12/29/2024 6:22:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK73 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1057094	-.035948	.2840994	.0992949	.0224062	82.47039
Stddev	.0045661	.003704	.0019121	.0011965	.0015229	.04605
%RSD	4.319515	10.30516	.6730245	1.205004	6.796624	.0558394
#1	.1098410	-.032142	.2820991	.0995789	.0241110	82.52050
#2	.1008069	-.039542	.2842903	.1003238	.0211806	82.46075
#3	.1064804	-.036160	.2859089	.0979819	.0219269	82.42992

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.777387	.0126571	.0090105	97.80256	.1282583	.0637414
Stddev	.002184	.0001655	.0000321	.10707	.0013798	.0006662
%RSD	.1228571	1.307170	.3562760	.1094720	1.075789	1.045169
#1	1.779123	.0128140	.0089734	97.81462	.1281790	.0643691
#2	1.778102	.0126732	.0090305	97.90308	.1269198	.0638127
#3	1.774935	.0124842	.0090275	97.68997	.1296760	.0630425

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1575177	182.5314	19.77464	26.29853	.1856373	.0043654
Stddev	.0060927	.3017	.03897	.16353	.0017178	.0004614
%RSD	3.867925	.1652674	.1970461	.6218143	.9253720	10.56960
#1	.1505405	182.5258	19.81866	26.15824	.1875018	.0048368
#2	.1617870	182.2326	19.76064	26.25922	.1852915	.0043447
#3	.1602257	182.8359	19.74460	26.47813	.1841188	.0039147

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4010902	.1684352	.5632973	6.176106	F 12.13464	.0834919
Stddev	.0300765	.0041250	.0037076	.137874	.01197	.0020910
%RSD	7.498689	2.449012	.6581865	2.232375	.0986136	2.504449
#1	.3672926	.1711600	.5623192	6.277411	12.13015	.0851269
#2	.4110688	.1636894	.5673958	6.231813	12.12558	.0811358
#3	.4249092	.1704562	.5601768	6.019095	12.14821	.0842131

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-21 Acquired: 12/29/2024 6:22:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK73 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081677	2.860038	12.27672	.0227087	.5506356	-.011752
Stddev	.0004315	.002377	.05477	.0019948	.0028704	.001025
%RSD	5.282478	.0831045	.4461457	8.784066	.5212953	8.719496
#1	.0086658	2.860223	12.27190	.0213419	.5494446	-.011035
#2	.0079107	2.862318	12.22452	.0217865	.5485524	-.011296
#3	.0079265	2.857575	12.33375	.0249977	.5539098	-.012926

Elem	Li6707
Units	ppm
Avg	.1201892
Stddev	.0022878
%RSD	1.903490
#1	.1198517
#2	.1226269
#3	.1180888

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2723.347	34466.85	2588.041	1746.103	1851.197
Stddev	10.018	126.50	15.921	5.299	4.280
%RSD	.3678576	.3670300	.6151823	.3034613	.2311932
#1	2718.109	34321.57	2571.772	1740.800	1848.198
#2	2717.034	34552.68	2603.590	1746.112	1849.294
#3	2734.898	34526.31	2588.762	1751.398	1856.098

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-22 Acquired: 12/29/2024 6:26:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK74 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0501814	-.017570	.1930435	.0426003	.0049163	64.76995	1.164173
Stddev	.0059738	.007226	.0007846	.0062590	.0042367	.04466	.001745
%RSD	11.90433	41.12826	.4064583	14.69231	86.17529	.0689445	.1498941
#1	.0451564	-.025776	.1938668	.0353852	.0029322	64.77872	1.165776
#2	.0567863	-.014772	.1929594	.0465704	.0097810	64.72156	1.162314
#3	.0486016	-.012161	.1923043	.0458453	.0020359	64.80957	1.164430

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096082	.0049660	724.5105	.1118296	.0600330	.0830525	138.7733
Stddev	.0001555	.0001021	1.8574	.0013134	.0001751	.0095272	.4365
%RSD	1.618005	2.054956	.2563696	1.174459	.2917308	11.47134	.3145493
#1	.0097836	.0048856	725.1233	.1103199	.0599857	.0928745	139.1680
#2	.0095535	.0049315	722.4241	.1127098	.0598863	.0738503	138.3045
#3	.0094874	.0050808	725.9841	.1124590	.0602269	.0824327	138.8475

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.315150	69.65744	.1440791	.0006566	.7510316	.1259186	.4191905
Stddev	.028266	.39508	.0006975	.0011933	.0323893	.0029327	.0025064
%RSD	.4475839	.5671807	.4841395	181.7462	4.312644	2.329009	.5979056
#1	6.344340	70.09472	.1448485	.0018246	.7479015	.1226908	.4184420
#2	6.287909	69.55141	.1434880	.0007058	.7848724	.1284192	.4219858
#3	6.313202	69.32619	.1439007	-.000561	.7203210	.1266459	.4171437

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.834891	8.109120	.0674519	.0016794	2.368477	11.32852	.0220872
Stddev	.141973	.021940	.0007556	.0002581	.006317	.00774	.0016135
%RSD	2.936434	.2705572	1.120276	15.37071	.2667178	.0683171	7.305098
#1	4.691907	8.092410	.0676262	.0017606	2.361280	11.32430	.0211745
#2	4.975832	8.100986	.0666244	.0013904	2.373107	11.32380	.0239501
#3	4.836934	8.133966	.0681052	.0018871	2.371042	11.33745	.0211369

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5032-22 Acquired: 12/29/2024 6:26:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK74 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7579307	.3348513	.1104270
Stddev	.0079544	.0008500	.0047179
%RSD	1.049486	.2538578	4.272436
#1	.7661573	.3338871	.1057416
#2	.7502798	.3354925	.1103625
#3	.7573549	.3351743	.1151768

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2308.424	29182.57	2282.720	1468.539	1662.082
Stddev	4.202	117.08	10.620	5.704	4.154
%RSD	.1820325	.4011858	.4652356	.3884224	.2499366
#1	2305.654	29199.25	2278.209	1472.608	1663.232
#2	2313.259	29058.05	2275.101	1462.019	1665.541
#3	2306.359	29290.41	2294.851	1470.991	1657.474

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV036 Acquired: 12/29/2024 6:30:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV036 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.023542	4.730378	24.23133	5.014959	4.922767	403.3438	9.990623
Stddev	.006850	.007943	.04225	.011034	.003305	.4753	.014060
%RSD	.1363538	.1679225	.1743408	.2200200	.0671309	.1178499	.1407298
#1	5.015802	4.738586	24.22848	5.002256	4.919849	402.9741	9.975326
#2	5.025999	4.722729	24.19059	5.020463	4.922096	403.1774	9.993561
#3	5.028824	4.729817	24.27493	5.022158	4.926356	403.8800	10.00298

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5093261	2.442223	400.6735	15.30303	2.359789	14.75874	403.7316
Stddev	.0045407	.003761	.6632	.02555	.004055	.03587	.8104
%RSD	.8915209	.1539913	.1655257	.1669601	.1718490	.2430461	.2007314
#1	.5144103	2.443307	400.9387	15.27745	2.360816	14.73434	403.2508
#2	.5056740	2.438040	399.9187	15.30309	2.355319	14.79992	403.2767
#3	.5078941	2.445323	401.1630	15.32855	2.363232	14.74194	404.6673

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.52572	399.4230	2.459784	1.265496	411.9751	2.460364	14.81071
Stddev	.01887	.5890	.004115	.002814	4.5049	.018219	.10493
%RSD	.1299067	.1474608	.1672811	.2223996	1.093494	.7404893	.7084991
#1	14.51039	399.7427	2.463387	1.265614	417.0275	2.479205	14.69056
#2	14.51996	398.7433	2.455300	1.262625	408.3768	2.459049	14.88434
#3	14.54679	399.7831	2.460665	1.268250	410.5209	2.442839	14.85722

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.7825	4.913622	4.977927	4.900726	4.956154	4.848115	4.938807
Stddev	.0969	.019429	.035224	.003618	.001557	.036420	.006181
%RSD	.0642724	.3954111	.7075985	.0738254	.0314066	.7512247	.1251602
#1	150.7716	4.934954	5.014208	4.897117	4.957520	4.888014	4.935756
#2	150.8844	4.896940	4.943865	4.900707	4.954460	4.816656	4.934744
#3	150.6915	4.908972	4.975708	4.904353	4.956482	4.839676	4.945921

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV036 Acquired: 12/29/2024 6:30:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV036 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.926787	4.695510	5.112140
Stddev	.005474	.002529	.008240
%RSD	.1111153	.0538542	.1611873
#1	4.920762	4.692746	5.102642
#2	4.931457	4.697707	5.117369
#3	4.928142	4.696076	5.116410

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1823.740	23512.76	1898.237	1139.175	1548.895
Stddev	3.693	7.19	14.967	5.413	4.048
%RSD	.2024806	.0305874	.7884739	.4751326	.2613502
#1	1825.910	23506.72	1881.840	1145.331	1547.337
#2	1825.834	23510.86	1911.164	1135.161	1553.490
#3	1819.476	23520.72	1901.707	1137.034	1545.857

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB036 Acquired: 12/29/2024 6:34:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB036 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000995	.0020927	.0001836	-.001860	-.001904	.0095906
Stddev	.001766	.0010541	.0025681	.001135	.000819	.0163486
%RSD	177.4956	50.36904	1398.565	61.00520	43.01654	170.4642
#1	-.001102	.0032486	.0031332	-.001893	-.000964	-.000924
#2	.000822	.0011846	-.001026	-.002977	-.002282	.028426
#3	-.002704	.0018448	-.001556	-.000709	-.002465	.001270

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000771	.0001056	-.000016	.0093589	.0006788	-.000175
Stddev	.000940	.0003413	.000102	.0396248	.0006854	.000246
%RSD	121.9496	323.2726	650.8653	423.3902	100.9653	140.4286
#1	.000275	-.000129	-.000093	.0535083	.0003233	-.000260
#2	-.001546	.000497	-.000054	-.023120	.0014689	.000102
#3	-.001043	-.000052	.000100	-.002311	.0002443	-.000368

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001541	.0368026	.0007719	-.018491	.0004075	.0004257
Stddev	.006612	.0308625	.0010215	.061149	.0003019	.0014761
%RSD	428.9695	83.85959	132.3369	330.6940	74.07801	346.7575
#1	-.004284	.0565365	-.000406	-.082624	.0003016	-.001060
#2	-.006340	.0012369	.001309	-.012009	.0007481	.001892
#3	.006001	.0526343	.001412	.039159	.0001729	.000446

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0345821	-.001558	.0016852	.1534823	.0011931	.0103698
Stddev	.0356641	.014547	.0008247	.0936763	.0005330	.0005412
%RSD	103.1290	933.9141	48.93545	61.03396	44.66946	5.219374
#1	.0571945	.010027	.0025475	.1817383	.0014690	.0104298
#2	.0530825	-.017884	.0016041	.2297780	.0015316	.0098011
#3	-.006531	.003184	.0009042	.0489305	.0005788	.0108786

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB036 Acquired: 12/29/2024 6:34:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB036 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008380	-.001025	.0002490	-.000588	.0040247	-.000144
Stddev	.0003001	.001761	.0018293	.001026	.0021408	.000167
%RSD	35.81647	171.8454	734.6669	174.5404	53.19126	116.0355
#1	.0009682	-.002909	-.000761	.000306	.0023503	-.000139
#2	.0004947	.000579	.002361	-.001708	.0032870	.000021
#3	.0010511	-.000743	-.000853	-.000362	.0064369	-.000313

Elem	Li6707
Units	ppm
Avg	F .0210260
Stddev	.0043333
%RSD	20.60930
#1	.0259675
#2	.0192363
#3	.0178743

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2052.811	25801.49	1970.589	1309.311	1856.430
Stddev	5.756	141.96	17.997	2.610	2.603
%RSD	.2804135	.5502126	.9132593	.1993170	.1402185
#1	2047.805	25686.15	1959.402	1307.127	1854.984
#2	2059.101	25758.27	1991.349	1308.605	1859.435
#3	2051.527	25960.04	1961.017	1312.201	1854.871

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-01 Acquired: 12/29/2024 6:38:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0693799	-.046948	.2701112	.0705667	.0136321	70.07985
Stddev	.0022211	.004053	.0016508	.0052803	.0019949	2.55817
%RSD	3.201333	8.633520	.6111402	7.482750	14.63419	3.650366
#1	.0675459	-.042299	.2709312	.0646618	.0124184	67.13837
#2	.0718495	-.049740	.2682110	.0748348	.0125433	71.31608
#3	.0687443	-.048805	.2711914	.0722035	.0159345	71.78511

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9533996	.0104074	.0044619	111.2259	.0972042	.0532343
Stddev	.0352784	.0003401	.0000076	3.9107	.0011381	.0023259
%RSD	3.700279	3.268171	.1699925	3.515991	1.170870	4.369167
#1	.9127365	.0100149	.0044703	106.7225	.0985152	.0559085
#2	.9716210	.0106165	.0044555	113.1886	.0964698	.0521126
#3	.9758413	.0105907	.0044599	113.7665	.0966275	.0516819

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1417633	151.3819	4.921328	35.77534	.1358748	-.000755
Stddev	.0119309	5.5479	.175600	1.25747	.0007356	.001197
%RSD	8.416088	3.664871	3.568141	3.514897	.5413676	158.6255
#1	.1297649	144.9918	4.720426	34.35289	.1360482	-.002064
#2	.1418995	154.1832	4.998023	36.23415	.1365083	-.000483
#3	.1536256	154.9706	5.045534	36.73897	.1350681	.000284

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8997619	.1679891	.8174920	6.882857	F 28.98882	.0752204
Stddev	.0249998	.0054483	.0069171	.289619	.07589	.0038289
%RSD	2.778493	3.243272	.8461303	4.207826	.2617972	5.090217
#1	.8795222	.1624939	.8254762	6.561090	28.92611	.0708894
#2	.9277075	.1680840	.8136865	6.964820	29.07319	.0766162
#3	.8920561	.1733894	.8133132	7.122661	28.96715	.0781555

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-01 Acquired: 12/29/2024 6:38:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038044	2.355548	11.30857	.0211024	1.186498	.0633942
Stddev	.0004332	.010075	.31764	.0010710	.044171	.0019791
%RSD	11.38720	.4277312	2.808879	5.075416	3.722829	3.121848
#1	.0043007	2.357547	10.94530	.0221625	1.136175	.0611654
#2	.0036102	2.364474	11.44636	.0211239	1.204464	.0640717
#3	.0035023	2.344623	11.53405	.0200208	1.218856	.0649456

Elem	Li6707
Units	ppm
Avg	.0898374
Stddev	.0044318
%RSD	4.933173
#1	.0863366
#2	.0883552
#3	.0948203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2755.077	34632.33	2751.956	1753.427	1840.302
Stddev	8.071	114.96	83.543	5.880	2.213
%RSD	.2929418	.3319529	3.035760	.3353541	.1202659
#1	2752.387	34530.10	2847.637	1751.596	1839.387
#2	2764.150	34610.11	2714.757	1748.680	1842.826
#3	2748.696	34756.78	2693.474	1760.005	1838.693

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-02 Acquired: 12/29/2024 6:42:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0535680	-.025539	.2066887	.0459204	.0054993	51.11897	.6003138
Stddev	.0055097	.001476	.0020543	.0078750	.0025567	.15364	.0005447
%RSD	10.28553	5.778891	.9939342	17.14918	46.49095	.3005525	.0907321
#1	.0517265	-.024889	.2084819	.0501132	.0074905	51.17894	.6007322
#2	.0492148	-.024499	.2071370	.0368361	.0026161	51.23357	.5996980
#3	.0597626	-.027228	.2044472	.0508120	.0063913	50.94439	.6005113

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093548	.0038393	491.0758	.0790257	.0597099	.1881654	148.0190
Stddev	.0001006	.0000831	1.4239	.0014004	.0004564	.0025951	.4429
%RSD	1.075699	2.163901	.2899539	1.772030	.7643402	1.379151	.2991944
#1	.0094698	.0039209	492.4321	.0787510	.0593393	.1863185	148.4692
#2	.0092826	.0037548	491.2024	.0805431	.0595705	.1870454	147.5838
#3	.0093122	.0038421	489.5928	.0777831	.0602197	.1911325	148.0040

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.708098	100.1291	.1429311	.0003738	.8733217	.1575494	.6087012
Stddev	.009540	.3792	.0004813	.0011330	.0084840	.0088382	.0017464
%RSD	.1237681	.3786621	.3367479	303.1262	.9714627	5.609808	.2869107
#1	7.711913	100.5531	.1427836	.0011744	.8782912	.1502889	.6096947
#2	7.715140	100.0117	.1425407	.0008696	.8781482	.1673907	.6097244
#3	7.697240	99.8225	.1434689	-.000923	.8635256	.1549684	.6066847

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.263065	8.319468	.0836119	.0028725	1.093551	9.759922	.0226818
Stddev	.040728	.021466	.0018772	.0006063	.008572	.117709	.0009733
%RSD	.7738515	.2580162	2.245078	21.10868	.7838835	1.206046	4.290898
#1	5.307190	8.343829	.0814481	.0034655	1.094107	9.826764	.0223925
#2	5.255090	8.303329	.0848046	.0022536	1.084714	9.828993	.0218860
#3	5.226914	8.311247	.0845830	.0028985	1.101831	9.624009	.0237669

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-02 Acquired: 12/29/2024 6:42:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKK9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5740682	.3547807	.0831059
Stddev	.0029731	.0012561	.0021262
%RSD	.5178955	.3540556	2.558382
#1	.5739553	.3534328	.0847565
#2	.5711532	.3559186	.0807067
#3	.5770961	.3549906	.0838545

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2429.196	30462.66	2412.987	1530.843	1750.193
Stddev	7.402	127.48	20.066	10.700	3.062
%RSD	.3047292	.4184725	.8315799	.6989773	.1749633
#1	2437.411	30433.49	2397.812	1524.222	1751.811
#2	2427.135	30602.20	2405.411	1543.188	1752.108
#3	2423.043	30352.30	2435.738	1525.120	1746.662

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-03 Acquired: 12/29/2024 6:46:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0457273	-.033006	.1501493	.0539742	.0068924	47.88304	.5124572
Stddev	.0065153	.002475	.0034060	.0060542	.0049342	.26277	.0038323
%RSD	14.24823	7.497788	2.268435	11.21678	71.58924	.5487817	.7478182
#1	.0440310	-.035119	.1479327	.0593366	.0122347	47.85516	.5101161
#2	.0529229	-.030284	.1484441	.0551770	.0025062	48.15864	.5168798
#3	.0402278	-.033617	.1540711	.0474089	.0059364	47.63531	.5103758

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103887	.0050508	727.5299	.0748495	.0519366	.1206461	165.6283
Stddev	.0002272	.0000977	4.3198	.0009464	.0014476	.0046954	.8652
%RSD	2.187225	1.934076	.5937619	1.264411	2.787271	3.891908	.5223470
#1	.0101685	.0050474	726.4157	.0747236	.0514637	.1159510	165.7424
#2	.0106224	.0049549	732.2976	.0758525	.0507846	.1206456	166.4308
#3	.0103752	.0051501	723.8763	.0739723	.0535615	.1253418	164.7118

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.195175	75.86583	.1422191	-.001118	.8436715	.1516540	.3440668
Stddev	.043279	.62076	.0008863	.000965	.0208691	.0075591	.0012435
%RSD	.6015007	.8182399	.6231720	86.31404	2.473604	4.984448	.3614073
#1	7.202764	75.97041	.1431833	-.000453	.8298741	.1450588	.3429017
#2	7.234158	76.42766	.1414400	-.000676	.8334605	.1500001	.3439227
#3	7.148604	75.19942	.1420340	-.002225	.8676799	.1599032	.3453761

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.360379	9.091992	.1095005	.0006310	.8246812	8.818181	.0238328
Stddev	.181472	.027372	.0021297	.0008809	.0058116	.095761	.0028895
%RSD	2.170616	.3010507	1.944924	139.5998	.7047067	1.085953	12.12415
#1	8.187876	9.063440	.1112388	.0007602	.8202738	8.782557	.0241289
#2	8.549655	9.094530	.1101379	-.000307	.8312673	8.926649	.0265628
#3	8.343608	9.118007	.1071249	.001440	.8225025	8.745339	.0208065

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-03 Acquired: 12/29/2024 6:46:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7475824	.3617523	.0880281
Stddev	.0042080	.0023896	.0061741
%RSD	.5628783	.6605685	7.013720
#1	.7472771	.3606594	.0809886
#2	.7519347	.3644929	.0905723
#3	.7435354	.3601045	.0925236

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2409.942	30423.61	2413.567	1531.766	1721.120
Stddev	8.762	35.25	19.434	5.560	3.782
%RSD	.3635752	.1158614	.8052170	.3629491	.2197564
#1	2404.044	30461.71	2420.278	1538.021	1719.879
#2	2420.010	30416.97	2391.667	1529.889	1725.367
#3	2405.771	30392.15	2428.757	1527.387	1718.114

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-04 Acquired: 12/29/2024 6:50:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0493272	-.079751	.2673995	.1151532	.0330096	62.92739
Stddev	.0040466	.005910	.0017782	.0041478	.0007929	.18762
%RSD	8.203511	7.410116	.6649896	3.601978	2.402130	.2981514
#1	.0519632	-.076471	.2677218	.1195137	.0329835	62.88915
#2	.0446680	-.086574	.2689946	.1112572	.0338152	63.13118
#3	.0513502	-.076210	.2654823	.1146887	.0322300	62.76183

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6631347	.0151789	.0059932	507.7709	.0921693	.0354019
Stddev	.0020087	.0002735	.0000150	1.0853	.0003839	.0009069
%RSD	.3029059	1.802043	.2509474	.2137351	.4165494	2.561610
#1	.6615475	.0154933	.0059843	507.6254	.0921821	.0362045
#2	.6653930	.0149961	.0060106	508.9216	.0925468	.0344181
#3	.6624635	.0150472	.0059847	506.7657	.0917792	.0355832

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1001450	256.7472	6.534673	79.41753	.1939806	-.001355
Stddev	.0033399	.7754	.026038	.17669	.0005152	.000518
%RSD	3.335037	.3020238	.3984571	.2224787	.2656064	38.22639
#1	.1007240	256.0418	6.513258	79.23271	.1945218	-.001394
#2	.1031575	257.5775	6.563657	79.58477	.1939239	-.001852
#3	.0965535	256.6223	6.527105	79.43511	.1934961	-.000819

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8358188	.2418042	.3452211	10.58380	F 11.69660	.1501304
Stddev	.0061996	.0134050	.0009463	.07819	.00724	.0005655
%RSD	.7417372	5.543753	.2741099	.7387972	.0619286	.3766850
#1	.8307824	.2572016	.3461555	10.49910	11.69923	.1495806
#2	.8427427	.2354786	.3452442	10.65323	11.70216	.1501003
#3	.8339313	.2327325	.3442634	10.59907	11.68841	.1507104

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-04 Acquired: 12/29/2024 6:50:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKL1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000021	.8385777	10.54905	.0316121	1.773518	.1808135
Stddev	.000659	.0144951	.05174	.0029886	.008853	.0016885
%RSD	3084.541	1.728532	.4904556	9.453972	.4991572	.9338560
#1	-.000447	.8325888	10.59203	.0322560	1.778836	.1826938
#2	-.000354	.8280368	10.49162	.0283541	1.778419	.1794266
#3	.000737	.8551076	10.56350	.0342263	1.763299	.1803200

Elem	Li6707
Units	ppm
Avg	.1191063
Stddev	.0023976
%RSD	2.012987
#1	.1193506
#2	.1213724
#3	.1165959

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2476.719	31531.55	2468.080	1583.794	1720.372
Stddev	3.631	139.67	12.422	6.980	1.360
%RSD	.1466153	.4429590	.5033156	.4407425	.0790308
#1	2474.876	31539.85	2454.594	1582.570	1718.809
#2	2480.902	31387.92	2479.055	1577.507	1721.278
#3	2474.378	31666.89	2470.591	1591.306	1721.029

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-05 Acquired: 12/29/2024 6:53:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0249439	.0284902	.2850346	-.023678	-.023121	17.89099
Stddev	.0030344	.0044835	.0016398	.006160	.004029	.11416
%RSD	12.16475	15.73692	.5752981	26.01808	17.42347	.6380709
#1	.0274210	.0242562	.2836558	-.016641	-.022699	18.02177
#2	.0258513	.0331872	.2846001	-.028099	-.027344	17.83987
#3	.0215593	.0280273	.2868479	-.026292	-.019320	17.81132

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1381817	.0044831	.0025735	F 1669.887	.0446212	.0667140
Stddev	.0007477	.0000331	.0000343	7.791	.0012630	.0008153
%RSD	.5411267	.7381713	1.331852	.4665579	2.830550	1.222127
#1	.1379837	.0044626	.0025774	1666.510	.0458078	.0668055
#2	.1375528	.0044655	.0026056	1678.797	.0432936	.0658568
#3	.1390085	.0045213	.0025374	1664.355	.0447623	.0674798

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0583552	64.04046	2.731640	263.8219	.0791445	.0000480
Stddev	.0038459	.27710	.015204	1.3017	.0004294	.0002814
%RSD	6.590563	.4326929	.5565915	.4933872	.5425936	586.4187
#1	.0604272	64.35530	2.749156	265.2615	.0793326	-.000030
#2	.0607207	63.93242	2.723918	263.4762	.0794478	.000360
#3	.0539175	63.83366	2.721847	262.7279	.0786531	-.000186

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.728803	.0349761	.3098788	4.695201	2.525485	.0819701
Stddev	.039615	.0071459	.0022205	.058296	.005041	.0009921
%RSD	2.291480	20.43081	.7165770	1.241616	.1995952	1.210331
#1	1.771126	.0427954	.3121815	4.714454	2.525356	.0830534
#2	1.692609	.0333483	.3097042	4.741435	2.520511	.0811058
#3	1.722675	.0287845	.3077508	4.629713	2.530590	.0817511

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-05 Acquired: 12/29/2024 6:53:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018692	28.13049	5.317972	.0238717	.1444448	1.024568
Stddev	.0005455	.10658	.041356	.0024099	.0027323	.002637
%RSD	29.18372	.3788684	.7776706	10.09507	1.891581	.2573510
#1	.0013806	28.01405	5.349246	.0255586	.1466909	1.026937
#2	.0017691	28.15422	5.271081	.0211117	.1452404	1.025041
#3	.0024577	28.22320	5.333588	.0249447	.1414030	1.021727

Elem	Li6707
Units	ppm
Avg	.0388896
Stddev	.0041160
%RSD	10.58373
#1	.0371996
#2	.0358876
#3	.0435816

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2094.350	26739.17	2116.780	1340.834	1567.860
Stddev	7.439	86.58	11.844	4.662	5.906
%RSD	.3551984	.3237780	.5595118	.3477162	.3767047
#1	2099.915	26746.11	2103.279	1337.141	1573.045
#2	2097.235	26649.34	2121.644	1339.289	1569.106
#3	2085.901	26822.07	2125.417	1346.073	1561.431

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-06 Acquired: 12/29/2024 6:57:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0991539	-.021152	1.291475	.0432738	.0025968	67.88876
Stddev	.0018217	.002953	.006928	.0076991	.0038362	.10613
%RSD	1.837281	13.95891	.5364073	17.79170	147.7321	.1563363
#1	.0972547	-.024382	1.286270	.0448940	.0066009	67.77331
#2	.0993204	-.020479	1.288817	.0500338	.0022354	67.98210
#3	.1008867	-.018593	1.299338	.0348934	-.001046	67.91086

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6195686	.0103241	.0072250	F 826.7416	.1305900	.0696500
Stddev	.0010707	.0000806	.0000968	1.8282	.0001187	.0004523
%RSD	.1728058	.7810701	1.339879	.2211298	.0908815	.6493598
#1	.6204991	.0103001	.0072920	824.6336	.1304821	.0695541
#2	.6183984	.0104141	.0072690	827.6972	.1305707	.0701425
#3	.6198083	.0102582	.0071140	827.8939	.1307171	.0692534

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1824965	150.3350	6.145483	142.2434	.1717565	.0000740
Stddev	.0054775	.2310	.009145	.3216	.0004839	.0013360
%RSD	3.001420	.1536800	.1488104	.2261244	.2817392	1805.802
#1	.1768702	150.0885	6.135847	142.1970	.1715965	.0010510
#2	.1828074	150.3699	6.154041	141.9474	.1713728	-.001448
#3	.1878119	150.5466	6.146562	142.5857	.1723001	.000619

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.407014	.1613398	1.346439	9.302544	7.564864	.0976708
Stddev	.017756	.0036733	.001975	.171003	.005734	.0013276
%RSD	.7376802	2.276727	.1466514	1.838244	.0757968	1.359250
#1	2.395673	.1574858	1.346611	9.298022	7.558266	.0976257
#2	2.427477	.1648007	1.344385	9.133846	7.568637	.0963663
#3	2.397892	.1617329	1.348322	9.475764	7.567690	.0990203

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-06 Acquired: 12/29/2024 6:57:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054928	11.68792	11.25549	.0482245	.7481522	.4393401
Stddev	.0005301	.02359	.02191	.0019225	.0018783	.0006526
%RSD	9.651125	.2018038	.1946963	3.986610	.2510538	.1485384
#1	.0048854	11.67722	11.23065	.0499381	.7501242	.4391507
#2	.0058622	11.67159	11.27207	.0485899	.7463844	.4400665
#3	.0057307	11.71496	11.26375	.0461455	.7479479	.4388032

Elem	Li6707
Units	ppm
Avg	.0819174
Stddev	.0030224
%RSD	3.689587
#1	.0790567
#2	.0816163
#3	.0850790

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2241.210	28272.67	2243.612	1429.677	1666.052
Stddev	6.322	125.92	2.564	4.139	3.273
%RSD	.2820885	.4453690	.1142853	.2895044	.1964636
#1	2246.562	28134.51	2240.684	1425.544	1669.121
#2	2242.833	28302.50	2245.456	1433.822	1666.429
#3	2234.234	28380.99	2244.696	1429.666	1662.607

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-07 Acquired: 12/29/2024 7:01:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0654901	.0010231	1.135468	.0140535	-.012330	39.72004
Stddev	.0100190	.0024669	.003146	.0062201	.002480	.09931
%RSD	15.29856	241.1157	.2770575	44.26003	20.11454	.2500311
#1	.0601989	-.001106	1.137164	.0200628	-.009521	39.60639
#2	.0592258	.003727	1.131839	.0076421	-.014217	39.76362
#3	.0770454	.000449	1.137403	.0144556	-.013251	39.79012

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3409321	.0077996	.0197994	F 1312.551	.0718777	.0666258
Stddev	.0012704	.0002236	.0000549	1.883	.0007505	.0008578
%RSD	.3726160	2.867462	.2770965	.1434660	1.044135	1.287413
#1	.3394692	.0079077	.0198613	1310.379	.0710948	.0656355
#2	.3415707	.0075424	.0197800	1313.546	.0719473	.0671370
#3	.3417566	.0079486	.0197569	1313.727	.0725909	.0671048

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0884763	116.4012	6.574773	705.3143	.1049874	.0002101
Stddev	.0024060	.3486	.032047	2.6139	.0003473	.0003264
%RSD	2.719363	.2994866	.4874169	.3705943	.3308233	155.3488
#1	.0912506	116.0425	6.545136	702.9475	.1048702	.0000838
#2	.0872170	116.7388	6.608781	708.1197	.1053781	-.000034
#3	.0869614	116.4223	6.570401	704.8756	.1047138	.000581

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.225427	.0927888	3.958924	8.205987	4.282398	.1205554
Stddev	.023820	.0064423	.017384	.142930	.010413	.0030296
%RSD	1.070344	6.942971	.4391189	1.741779	.2431670	2.513047
#1	2.205548	.0856659	3.942445	8.048870	4.279196	.1170659
#2	2.251829	.0944925	3.977090	8.328302	4.273962	.1225149
#3	2.218904	.0982081	3.957238	8.240790	4.294036	.1220854

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-07 Acquired: 12/29/2024 7:01:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030296	30.05451	9.187298	.0376059	.3556851	.4073138
Stddev	.0001828	.03201	.070392	.0023349	.0015253	.0015359
%RSD	6.033252	.1065018	.7661906	6.208774	.4288437	.3770936
#1	.0030335	30.02101	9.264141	.0349974	.3558280	.4089866
#2	.0032104	30.05776	9.171821	.0383196	.3571339	.4059670
#3	.0028449	30.08478	9.125933	.0395006	.3540933	.4069879

Elem	Li6707
Units	ppm
Avg	.0652631
Stddev	.0075509
%RSD	11.56999
#1	.0599638
#2	.0619165
#3	.0739090

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2030.508	25986.97	2081.055	1291.068	1519.553
Stddev	7.321	30.98	4.907	9.879	6.256
%RSD	.3605555	.1191989	.2358032	.7651665	.4116984
#1	2025.997	26014.52	2075.410	1302.475	1518.620
#2	2038.955	25992.96	2083.458	1285.354	1526.224
#3	2026.571	25953.44	2084.298	1285.375	1513.817

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-08 Acquired: 12/29/2024 7:05:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1482824	-.023855	6.044205	.0676958	.0108254	86.63005
Stddev	.0061250	.010071	.011995	.0053264	.0023679	.69718
%RSD	4.130636	42.21970	.1984502	7.868104	21.87338	.8047822
#1	.1544509	-.029744	6.030838	.0678913	.0134086	85.94362
#2	.1422018	-.012226	6.047749	.0622744	.0087579	86.60903
#3	.1481944	-.029595	6.054028	.0729218	.0103096	87.33751

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.202108	.0130859	.0142482	501.5219	.1429554	.0764282
Stddev	.006625	.0000930	.0000696	3.2877	.0002224	.0010442
%RSD	.5511219	.7106376	.4882331	.6555455	.1555423	1.366272
#1	1.196795	.0131894	.0142036	498.2650	.1427060	.0767783
#2	1.199997	.0130095	.0142127	501.4610	.1430276	.0772524
#3	1.209531	.0130588	.0143284	504.8396	.1431327	.0752540

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3801559	162.6013	11.05905	279.1639	.2043417	.0028489
Stddev	.0033233	1.3272	.07999	1.9588	.0002707	.0011831
%RSD	.8742052	.8162099	.7233417	.7016734	.1324739	41.52786
#1	.3796773	161.4573	10.98492	277.3362	.2044431	.0040184
#2	.3836926	162.2903	11.04839	278.9236	.2045471	.0028755
#3	.3770979	164.0564	11.14384	281.2317	.2040350	.0016527

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.27230	.1514062	2.828199	9.432902	F 11.36943	.1030520
Stddev	.25029	.0121375	.010083	.098064	.02351	.0022314
%RSD	1.538135	8.016521	.3565085	1.039595	.2067453	2.165321
#1	16.00547	.1374006	2.817879	9.327300	11.34717	.1021669
#2	16.30955	.1579600	2.828692	9.521096	11.36710	.1055901
#3	16.50188	.1588580	2.838027	9.450311	11.39401	.1013988

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-08 Acquired: 12/29/2024 7:05:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109385	11.61688	10.23589	.1177565	.8154208	.2026276
Stddev	.0005715	.02731	.11989	.0010504	.0031465	.0006621
%RSD	5.224922	.2350681	1.171232	.8919991	.3858747	.3267607
#1	.0112380	11.59146	10.11946	.1189665	.8132932	.2022453
#2	.0102795	11.61343	10.22925	.1170787	.8139341	.2022454
#3	.0112982	11.64575	10.35896	.1172244	.8190352	.2033921

Elem	Li6707
Units	ppm
Avg	.0898056
Stddev	.0005028
%RSD	.5599053
#1	.0899109
#2	.0902474
#3	.0892585

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2393.780	30244.20	2385.072	1520.450	1632.851
Stddev	7.689	29.80	29.004	5.588	8.282
%RSD	.3212249	.0985153	1.216074	.3675539	.5072329
#1	2400.889	30222.49	2411.245	1522.811	1641.430
#2	2385.619	30278.17	2390.082	1524.471	1624.901
#3	2394.831	30231.94	2353.889	1514.069	1632.223

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-09 Acquired: 12/29/2024 7:09:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1504136	-.027392	5.990110	.0687201	.0075708	85.91676
Stddev	.0073980	.004756	.014242	.0019911	.0042662	.28065
%RSD	4.918466	17.36372	.2377623	2.897418	56.35139	.3266509
#1	.1556288	-.027223	5.976954	.0704862	.0102807	85.59610
#2	.1419466	-.022722	5.988142	.0665622	.0026531	86.03653
#3	.1536654	-.032230	6.005234	.0691119	.0097785	86.11765

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.189879	.0127552	.0141034	498.2593	.1419837	.0752499
Stddev	.002359	.0000524	.0001279	1.4770	.0004651	.0007248
%RSD	.1982534	.4111117	.9068621	.2964306	.3275586	.9631894
#1	1.188025	.0127849	.0141291	496.6006	.1425088	.0744581
#2	1.192534	.0127861	.0139645	499.4321	.1416236	.0754109
#3	1.189079	.0126947	.0142164	498.7453	.1418188	.0758807

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3745129	161.2191	10.94350	277.2830	.2018236	.0023605
Stddev	.0092268	.6848	.04340	.9274	.0007481	.0008988
%RSD	2.463674	.4247600	.3965454	.3344705	.3706762	38.07848
#1	.3850544	160.4289	10.89403	276.2224	.2015220	.0033948
#2	.3679039	161.6391	10.96132	277.9415	.2012734	.0017693
#3	.3705804	161.5892	10.97514	277.6852	.2026755	.0019173

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.96470	.1628706	2.824115	9.194812	F 11.25876	.1040486
Stddev	.03352	.0086255	.015159	.157470	.02545	.0028065
%RSD	.2099569	5.295893	.5367866	1.712601	.2260389	2.697281
#1	15.97066	.1667799	2.841540	9.301509	11.25142	.1008084
#2	15.99485	.1688493	2.816840	9.268973	11.23778	.1056201
#3	15.92861	.1529828	2.813964	9.013953	11.28707	.1057173

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-09 Acquired: 12/29/2024 7:09:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107853	11.52038	10.14293	.1157220	.8143260	.2029595
Stddev	.0005634	.02626	.06808	.0009715	.0073440	.0008568
%RSD	5.223970	.2279371	.6712387	.8394832	.9018494	.4221654
#1	.0111302	11.50030	10.15018	.1160360	.8070803	.2037448
#2	.0101351	11.51073	10.20710	.1146324	.8141331	.2030878
#3	.0110906	11.55009	10.07151	.1164977	.8217645	.2020457

Elem	Li6707
Units	ppm
Avg	.0876028
Stddev	.0025095
%RSD	2.864651
#1	.0854096
#2	.0903396
#3	.0870594

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2406.704	30476.93	2429.518	1528.768	1644.141
Stddev	5.393	36.11	16.546	9.164	5.620
%RSD	.2240781	.1184918	.6810487	.5994084	.3418237
#1	2412.684	30511.83	2427.379	1518.676	1649.893
#2	2405.218	30439.72	2414.146	1531.057	1643.868
#3	2402.210	30479.23	2447.030	1536.569	1638.663

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-08LX5 Acquired: 12/29/2024 7:13:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192107	.0135384	1.073446	-.005067	-.014060	12.05266	.2885530
Stddev	.0036321	.0016779	.003586	.002861	.002005	.02692	.0018989
%RSD	18.90686	12.39388	.3340769	56.46147	14.25654	.2233623	.6580604
#1	.0192275	.0122103	1.072517	-.001789	-.015362	12.06741	.2898940
#2	.0155702	.0129807	1.077406	-.006353	-.011752	12.06899	.2863802
#3	.0228344	.0154241	1.070416	-.007060	-.015067	12.02159	.2893848

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026117	.0024924	104.1462	.0371810	.0367713	.0719373	39.03842
Stddev	.0002097	.0000691	.5178	.0012464	.0004097	.0075019	.23453
%RSD	8.027537	2.772827	.4972041	3.352124	1.114160	10.42834	.6007657
#1	.0027782	.0024564	104.7300	.0364431	.0372336	.0802687	39.23624
#2	.0026806	.0024487	103.7423	.0386201	.0366271	.0657176	38.77934
#3	.0023762	.0025720	103.9665	.0364800	.0364532	.0698256	39.09969

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.386235	58.29979	.0350588	.0007168	.2588300	.0226473	.6344093
Stddev	.011582	.32524	.0001177	.0017491	.0094603	.0132955	.0022541
%RSD	.4853534	.5578785	.3358029	244.0159	3.655044	58.70692	.3553058
#1	2.399515	58.64941	.0349473	.0023233	.2544654	.0257286	.6318771
#2	2.380958	58.00621	.0350474	.0009736	.2523399	.0341316	.6351540
#3	2.378231	58.24373	.0351819	-.001146	.2696847	.0080816	.6361969

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.388428	1.469900	.0228314	.0041738	2.252154	2.384603	.0202309
Stddev	.179932	.004789	.0011569	.0003016	.001988	.025165	.0001882
%RSD	12.95941	.3258304	5.067260	7.226612	.0882925	1.055323	.9303573
#1	1.391571	1.468715	.0241587	.0045212	2.250689	2.412045	.0201037
#2	1.206946	1.465814	.0220361	.0039781	2.254418	2.379156	.0201420
#3	1.566769	1.475170	.0222996	.0040222	2.251355	2.362607	.0204472

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-08LX5 Acquired: 12/29/2024 7:13:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1440724	.0295556	.0208706
Stddev	.0043567	.0005613	.0028633
%RSD	3.023933	1.899250	13.71935
#1	.1463207	.0298448	.0230163
#2	.1390510	.0289087	.0219760
#3	.1468457	.0299134	.0176193

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2127.256	26819.31	2041.800	1360.859	1796.959
Stddev	4.479	15.74	23.825	11.001	1.551
%RSD	.2105516	.0586846	1.166857	.8083542	.0863127
#1	2125.075	26816.29	2014.650	1369.032	1797.581
#2	2124.286	26836.34	2051.527	1365.193	1795.193
#3	2132.408	26805.30	2059.222	1348.351	1798.102

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-10 Acquired: 12/29/2024 7:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2218984	.0456543	5.262413	.2235216	.1774158	57.53943	4.786941
Stddev	.0012118	.0034584	.017060	.0009028	.0011661	.09418	.015164
%RSD	.5461095	7.575238	.3241896	.4038975	.6572771	.1636707	.3167757
#1	.2230611	.0494979	5.250754	.2234330	.1778613	57.63529	4.804353
#2	.2219912	.0446709	5.254491	.2226664	.1782935	57.53596	4.776635
#3	.2206428	.0427940	5.281994	.2244655	.1760926	57.44703	4.779835

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0986352	.1099507	451.0949	.5192961	1.042136	.7348632	170.1196
Stddev	.0004995	.0002021	1.1887	.0026253	.002530	.0076318	.6810
%RSD	.5063844	.1838179	.2635201	.5055524	.2427863	1.038538	.4003164
#1	.0990680	.1097213	452.3816	.5162774	1.041970	.7270176	170.7905
#2	.0987490	.1100282	450.0376	.5210455	1.039693	.7422616	170.1395
#3	.0980886	.1101026	450.8655	.5205655	1.044745	.7353105	169.4289

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.11918	253.2183	1.151911	.0668123	1.264679	1.022374	3.544118
Stddev	.02665	.9631	.003935	.0018690	.007217	.011886	.005858
%RSD	.2396999	.3803409	.3416375	2.797324	.5706715	1.162546	.1652992
#1	11.14895	254.2035	1.152934	.0688599	1.271117	1.034896	3.545889
#2	11.11105	253.1725	1.147565	.0663787	1.256877	1.020980	3.537579
#3	11.09754	252.2790	1.155234	.0651982	1.266043	1.011248	3.548888

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.766654	7.356936	.0949239	.0095474	11.11136	10.31333	.1033196
Stddev	.193395	.011411	.0007520	.0001759	.02960	.04325	.0012657
%RSD	2.858056	.1551113	.7921813	1.842380	.2663761	.4193234	1.225073
#1	6.788460	7.347638	.0953282	.0095840	11.10708	10.28822	.1037675
#2	6.563280	7.353499	.0953872	.0093561	11.08414	10.36327	.1043006
#3	6.948221	7.369671	.0940562	.0097022	11.14287	10.28851	.1018909

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-10 Acquired: 12/29/2024 7:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM9S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6339381	.1332746	.0640469
Stddev	.0006727	.0007931	.0030339
%RSD	.1061218	.5951191	4.737026
#1	.6339597	.1324524	.0644380
#2	.6345998	.1333364	.0608363
#3	.6332549	.1340351	.0668662

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2303.779	29228.80	2246.004	1467.740	1677.288
Stddev	3.894	94.39	7.866	5.450	1.990
%RSD	.1690478	.3229384	.3502409	.3713077	.1186693
#1	2305.443	29322.01	2253.968	1472.131	1679.432
#2	2299.329	29231.13	2238.239	1469.448	1676.932
#3	2306.565	29133.27	2245.805	1461.640	1675.499

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-11 Acquired: 12/29/2024 7:21:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2166453	-.059815	6.850786	.1035135	.0271200	71.59733
Stddev	.0047746	.004193	.028011	.0005647	.0036977	.49954
%RSD	2.203869	7.009967	.4088722	.5455563	13.63442	.6977096
#1	.2183545	-.064572	6.844996	.1041653	.0234510	72.17415
#2	.2203302	-.056655	6.826123	.1031703	.0270635	71.30817
#3	.2112514	-.058218	6.881240	.1032050	.0308457	71.30968

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.043422	.0160440	.0259767	175.9536	.1844102	.0560358
Stddev	.012964	.0001665	.0001879	.8981	.0000665	.0006930
%RSD	.6344494	1.038031	.7234588	.5103907	.0360510	1.236684
#1	2.058005	.0161721	.0258422	176.9905	.1844679	.0555435
#2	2.039059	.0161043	.0261915	175.4458	.1844253	.0557356
#3	2.033202	.0158558	.0258965	175.4245	.1843375	.0568283

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5273258	205.9591	10.69644	56.11791	.2542640	.0049169
Stddev	.0061134	1.5255	.06315	.29245	.0008370	.0007660
%RSD	1.159311	.7406814	.5903370	.5211305	.3291848	15.57947
#1	.5341214	207.6517	10.76911	56.41683	.2538056	.0040790
#2	.5222734	205.5349	10.66529	56.10452	.2552301	.0050902
#3	.5255826	204.6905	10.65492	55.83240	.2537563	.0055814

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.143063	.1927897	4.605315	6.901401	F 12.73098	.1188289
Stddev	.017154	.0106247	.031294	.144675	.05511	.0029033
%RSD	1.500746	5.511053	.6795153	2.096310	.4328544	2.443305
#1	1.126942	.2018001	4.590615	7.050481	12.70293	.1215734
#2	1.141156	.1810737	4.584078	6.892146	12.69554	.1157892
#3	1.161091	.1954952	4.641253	6.761576	12.79447	.1191242

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-11 Acquired: 12/29/2024 7:21:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114559	6.346753	11.01358	.1606941	.8636351	.3950639
Stddev	.0008681	.012985	.05429	.0013825	.0061229	.0014747
%RSD	7.577384	.2045926	.4929387	.8603246	.7089649	.3732690
#1	.0112592	6.342595	11.07164	.1604606	.8697171	.3967589
#2	.0124055	6.336356	11.00505	.1621785	.8574721	.3943568
#3	.0107032	6.361307	10.96407	.1594433	.8637162	.3940759

Elem	Li6707
Units	ppm
Avg	.0838031
Stddev	.0011137
%RSD	1.328965
#1	.0850744
#2	.0833350
#3	.0829998

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2539.118	32002.44	2446.233	1635.034	1836.633
Stddev	4.874	264.02	18.967	10.309	6.533
%RSD	.1919443	.8250060	.7753365	.6305204	.3556981
#1	2540.057	31753.09	2425.484	1631.708	1840.050
#2	2543.453	32279.03	2450.538	1646.596	1840.748
#3	2533.843	31975.20	2462.677	1626.799	1829.100

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-12 Acquired: 12/29/2024 7:24:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0652112	.0160076	1.681008	.0022810	-.011534	31.05207
Stddev	.0023881	.0038397	.002187	.0038426	.000405	.08451
%RSD	3.662145	23.98657	.1301151	168.4604	3.513952	.2721536
#1	.0625819	.0164088	1.680228	.0029160	-.011151	31.14459
#2	.0672458	.0119831	1.679319	.0057667	-.011959	31.03268
#3	.0658058	.0196309	1.683479	-.001840	-.011493	30.97894

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7621284	.0061586	.0056375	798.5427	.0681042	.0659646
Stddev	.0022090	.0002157	.0000575	1.6673	.0009591	.0010399
%RSD	.2898471	3.502756	1.019489	.2087963	1.408314	1.576407
#1	.7645071	.0061340	.0055759	799.6364	.0670101	.0671635
#2	.7601416	.0059562	.0056896	799.3681	.0688002	.0654226
#3	.7617364	.0063856	.0056471	796.6237	.0685022	.0653077

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1556504	77.93609	7.267562	35.18007	.0954738	.0009090
Stddev	.0026454	.18042	.025906	.24111	.0009514	.0007807
%RSD	1.699551	.2314955	.3564655	.6853720	.9965548	85.88153
#1	.1586218	78.10936	7.281172	35.05675	.0962485	.0014687
#2	.1535514	77.94962	7.283826	35.45790	.0944118	.0000172
#3	.1547780	77.74928	7.237687	35.02556	.0957611	.0012411

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.045305	.0618777	.9822755	2.858672	F 11.48957	.0542109
Stddev	.010920	.0107143	.0036717	.108183	.01381	.0022874
%RSD	1.044706	17.31533	.3737967	3.784390	.1201975	4.219379
#1	1.044360	.0495169	.9858933	2.853334	11.48150	.0559824
#2	1.034888	.0676042	.9823809	2.969425	11.48169	.0550216
#3	1.056667	.0685119	.9785522	2.753256	11.50551	.0516286

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-12 Acquired: 12/29/2024 7:24:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028696	1.702966	7.283779	.0577447	.3265786	.7722876
Stddev	.0004086	.002482	.018004	.0026930	.0050191	.0007991
%RSD	14.23913	.1457230	.2471778	4.663687	1.536882	.1034648
#1	.0033169	1.701272	7.270693	.0588108	.3250486	.7727511
#2	.0025159	1.701813	7.276333	.0546818	.3321847	.7713650
#3	.0027761	1.705815	7.304311	.0597413	.3225025	.7727468

Elem	Li6707
Units	ppm
Avg	.0447159
Stddev	.0021422
%RSD	4.790610
#1	.0471882
#2	.0434117
#3	.0435478

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2407.871	30313.69	2332.154	1529.885	1728.045
Stddev	7.479	93.94	3.653	7.076	5.678
%RSD	.3106165	.3098954	.1566376	.4625225	.3285681
#1	2402.912	30264.24	2336.372	1525.035	1724.113
#2	2416.473	30254.80	2330.094	1526.615	1734.555
#3	2404.226	30422.03	2329.996	1538.004	1725.469

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-13 Acquired: 12/29/2024 7:28:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1104664	-.011125	2.085001	.0431758	-.002087	53.90796	.8955143
Stddev	.0042800	.004386	.003210	.0085245	.000801	.29869	.0038351
%RSD	3.874472	39.42665	.1539647	19.74378	38.37912	.5540765	.4282620
#1	.1116006	-.014253	2.082786	.0338320	-.001190	54.25183	.8999395
#2	.1057336	-.013011	2.088683	.0505287	-.002340	53.71300	.8934499
#3	.1140651	-.006111	2.083534	.0451668	-.002732	53.75904	.8931536

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097184	.0066646	776.5418	.0941841	.0800293	.3214481	142.4882
Stddev	.0001254	.0000545	5.0619	.0001617	.0009001	.0084536	.8448
%RSD	1.290293	.8184407	.6518465	.1716623	1.124760	2.629846	.5929060
#1	.0098421	.0067261	782.2436	.0943460	.0804194	.3294892	143.4410
#2	.0097215	.0066458	772.5776	.0941837	.0789999	.3222201	142.1930
#3	.0095914	.0066219	774.8043	.0940227	.0806686	.3126350	141.8306

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.48602	72.14789	.1483871	.0030579	1.264312	.1164917	1.082118
Stddev	.07381	.47845	.0010905	.0009530	.011795	.0028277	.003546
%RSD	.5911805	.6631451	.7348770	31.16562	.9329570	2.427387	.3277128
#1	12.57125	72.68079	.1494060	.0025744	1.251349	.1163860	1.078282
#2	12.44414	72.00759	.1485183	.0024435	1.267177	.1193708	1.085278
#3	12.44267	71.75527	.1472370	.0041557	1.274412	.1137184	1.082793

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.821591	8.414337	.0976231	.0041859	2.305820	9.808812	.0676059
Stddev	.152169	.020479	.0025745	.0005621	.005942	.119673	.0012382
%RSD	1.945505	.2433853	2.637176	13.42761	.2576784	1.220060	1.831471
#1	7.645884	8.391059	.0947647	.0045210	2.303179	9.943770	.0677019
#2	7.910349	8.422368	.0997594	.0035370	2.301657	9.767048	.0687932
#3	7.908541	8.429583	.0983453	.0044998	2.312624	9.715616	.0663224

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-13 Acquired: 12/29/2024 7:28:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4798359	.7122716	.0843482
Stddev	.0018185	.0059111	.0033327
%RSD	.3789823	.8298920	3.951166
#1	.4793124	.7178657	.0877362
#2	.4783366	.7060877	.0842347
#3	.4818587	.7128613	.0810736

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2391.988	30025.12	2360.220	1511.928	1694.703
Stddev	6.189	97.87	24.935	1.493	2.474
%RSD	.2587321	.3259735	1.056476	.0987544	.1459593
#1	2386.106	29999.48	2331.453	1513.465	1694.345
#2	2398.444	30133.26	2375.648	1511.836	1697.336
#3	2391.414	29942.62	2373.560	1510.483	1692.428

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-14 Acquired: 12/29/2024 7:32:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1168396	-.023594	1.238782	.0616099	.0092609	67.59520
Stddev	.0051916	.004677	.000253	.0118642	.0043373	3.04108
%RSD	4.443333	19.82232	.0203866	19.25704	46.83478	4.498954
#1	.1144419	-.019303	1.239071	.0583509	.0128707	65.06421
#2	.1227966	-.028579	1.238668	.0747630	.0044495	70.96871
#3	.1132802	-.022900	1.238606	.0517157	.0104625	66.75269

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.149990	.0105639	.0076683	210.2881	.1915789	.0643101
Stddev	.051121	.0004225	.0001892	9.5962	.0054922	.0033021
%RSD	4.445307	3.999615	2.466933	4.563376	2.866801	5.134572
#1	1.106914	.0101535	.0076881	202.1715	.1902631	.0672457
#2	1.206480	.0109976	.0074700	220.8793	.1868642	.0607351
#3	1.136576	.0105406	.0078467	207.8135	.1976095	.0649494

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3075102	150.4575	12.00779	58.94271	.2018931	.0047704
Stddev	.0154167	6.6067	.50733	2.40277	.0001465	.0011831
%RSD	5.013389	4.391053	4.225011	4.076442	.0725579	24.80046
#1	.2969201	145.0344	11.58169	56.88716	.2019465	.0039840
#2	.3251972	157.8156	12.56900	61.58427	.2020055	.0061310
#3	.3004132	148.5226	11.87267	58.35670	.2017275	.0041961

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4911760	.1627078	1.817959	10.24887	F 11.59188	.0987406
Stddev	.0161026	.0014986	.054720	.69097	.03662	.0030905
%RSD	3.278383	.9210269	3.009964	6.741908	.3159348	3.129947
#1	.4862149	.1636255	1.807214	9.62940	11.56662	.0957946
#2	.5091754	.1609784	1.769409	10.99407	11.57514	.1019578
#3	.4781377	.1635193	1.877254	10.12314	11.63388	.0984693

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-14 Acquired: 12/29/2024 7:32:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100495	4.687602	11.03102	.0566316	.7146045	.1133573
Stddev	.0004479	.032600	.37040	.0008926	.0296234	.0063082
%RSD	4.457224	.6954505	3.357812	1.576216	4.145420	5.564851
#1	.0097665	4.684000	10.76294	.0564044	.6879527	.1076138
#2	.0105659	4.656952	11.45368	.0558745	.7464993	.1201088
#3	.0098160	4.721853	10.87645	.0576158	.7093615	.1123494

Elem	Li6707
Units	ppm
Avg	.0846054
Stddev	.0023217
%RSD	2.744167
#1	.0833372
#2	.0872850
#3	.0831940

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2361.513	29948.94	2291.677	1522.137	1795.131
Stddev	10.820	688.15	87.922	38.714	6.382
%RSD	.4581995	2.297741	3.836570	2.543419	.3555208
#1	2362.436	30214.92	2364.537	1537.535	1796.779
#2	2371.843	30464.41	2194.019	1550.783	1800.527
#3	2350.262	29167.50	2316.473	1478.093	1788.086

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-15 Acquired: 12/29/2024 7:36:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1366038	-.031582	1.936084	.0752086	.0117498	75.94944
Stddev	.0032973	.004755	.004953	.0028437	.0068105	.43399
%RSD	2.413794	15.05508	.2558325	3.781022	57.96230	.5714251
#1	.1391171	-.032669	1.935103	.0731222	.0131371	75.88450
#2	.1328702	-.035698	1.931694	.0740559	.0177599	76.41224
#3	.1378239	-.026377	1.941454	.0784476	.0043525	75.55157

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.380072	.0121758	.0107422	375.8682	.2482758	.0666330
Stddev	.006212	.0001970	.0001203	1.7433	.0012539	.0014941
%RSD	.4501272	1.618303	1.120221	.4637980	.5050515	2.242325
#1	1.377748	.0124013	.0108181	375.8627	.2471736	.0682862
#2	1.387111	.0120894	.0106035	377.6142	.2496401	.0653790
#3	1.375358	.0120368	.0108051	374.1277	.2480138	.0662339

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3776713	178.9371	11.82863	156.0853	.2500111	.0050311
Stddev	.0079681	.7226	.07503	.9400	.0008152	.0004617
%RSD	2.109805	.4038186	.6342800	.6022110	.3260629	9.176581
#1	.3864307	178.8152	11.82112	155.8329	.2491592	.0049761
#2	.3708532	179.7128	11.90714	157.1257	.2500904	.0055178
#3	.3757301	178.2832	11.75765	155.2973	.2507837	.0045994

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7031714	.1954756	3.560030	10.28877	F 14.71210	.1103128
Stddev	.0165973	.0038395	.019742	.12877	.03213	.0012727
%RSD	2.360349	1.964190	.5545400	1.251558	.2183781	1.153729
#1	.6857074	.1995077	3.561952	10.35094	14.72660	.1112665
#2	.7187391	.1918632	3.578740	10.37466	14.67528	.1088676
#3	.7050679	.1950559	3.539397	10.14072	14.73442	.1108042

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-15 Acquired: 12/29/2024 7:36:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088638	6.629655	11.76899	.0480632	.6607938	.1533302
Stddev	.0004884	.014072	.11142	.0002567	.0067897	.0009598
%RSD	5.510147	.2122553	.9467013	.5341329	1.027500	.6259750
#1	.0083084	6.643300	11.74688	.0483591	.6557835	.1528767
#2	.0090565	6.615192	11.88980	.0479305	.6685212	.1544327
#3	.0092264	6.630472	11.67028	.0479000	.6580768	.1526811

Elem	Li6707
Units	ppm
Avg	.1027000
Stddev	.0026103
%RSD	2.541674
#1	.1050406
#2	.1031743
#3	.0998851

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2433.979	30852.16	2398.811	1553.187	1719.578
Stddev	9.147	143.37	14.389	4.725	6.683
%RSD	.3758001	.4646930	.5998243	.3042005	.3886452
#1	2444.522	30732.54	2392.817	1548.023	1727.280
#2	2428.159	31011.08	2388.388	1554.244	1716.135
#3	2429.257	30812.88	2415.227	1557.294	1715.318

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-16 Acquired: 12/29/2024 7:40:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0919068	-.013970	1.218307	.0467966	.0066163	58.24132
Stddev	.0045378	.000930	.007048	.0079565	.0055814	.46034
%RSD	4.937362	6.654398	.5785178	17.00222	84.35884	.7903996
#1	.0928600	-.014875	1.210209	.0536801	.0129648	57.72643
#2	.0869682	-.013017	1.221650	.0486244	.0024803	58.38437
#3	.0958923	-.014019	1.223061	.0380853	.0044038	58.61315

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.062315	.0096919	.0078480	599.7201	.1770514	.0706007
Stddev	.008023	.0001131	.0001101	4.7286	.0013827	.0012706
%RSD	.7552402	1.167144	1.403278	.7884699	.7809634	1.799743
#1	1.053174	.0097637	.0077508	594.4216	.1786360	.0715646
#2	1.065581	.0095615	.0078258	601.2275	.1764278	.0710765
#3	1.068189	.0097504	.0079676	603.5113	.1760903	.0691608

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3034269	145.9440	12.78613	206.2583	.1818357	.0044288
Stddev	.0042843	1.2922	.10448	1.8517	.0003299	.0016533
%RSD	1.411976	.8854131	.8171280	.8977353	.1814293	37.33118
#1	.3017837	144.4900	12.66899	204.1366	.1821807	.0036418
#2	.3082895	146.3812	12.81973	207.0900	.1815233	.0033160
#3	.3002074	146.9610	12.86968	207.5481	.1818031	.0063287

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9481166	.1287987	2.325056	7.422932	F 10.64367	.0916672
Stddev	.0192050	.0018708	.006508	.194353	.01656	.0023447
%RSD	2.025591	1.452466	.2799198	2.618280	.1556033	2.557820
#1	.9696178	.1305924	2.331850	7.220283	10.62512	.0889613
#2	.9326644	.1289443	2.318878	7.440752	10.64889	.0929434
#3	.9420675	.1268594	2.324439	7.607762	10.65699	.0930970

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-16 Acquired: 12/29/2024 7:40:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084067	4.036370	11.65860	.0594448	.6213400	.3637660
Stddev	.0006288	.010188	.07699	.0020213	.0032382	.0029478
%RSD	7.479288	.2523959	.6603986	3.400284	.5211557	.8103596
#1	.0077618	4.030140	11.72789	.0574734	.6180080	.3607337
#2	.0090180	4.048127	11.57572	.0593485	.6215368	.3639429
#3	.0084403	4.030843	11.67221	.0615125	.6244753	.3666214

Elem	Li6707
Units	ppm
Avg	.0823332
Stddev	.0023424
%RSD	2.845026
#1	.0826381
#2	.0798532
#3	.0845082

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2237.458	28528.22	2235.786	1431.975	1620.756
Stddev	6.376	71.84	4.683	7.440	2.732
%RSD	.2849850	.2518102	.2094505	.5195625	.1685582
#1	2232.759	28451.09	2230.379	1425.334	1617.724
#2	2234.898	28540.34	2238.405	1430.575	1621.516
#3	2244.716	28593.22	2238.573	1440.015	1623.027

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-17 Acquired: 12/29/2024 7:44:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1704485	-.060332	2.731081	.0992729	.0441176	50.95662	1.295576
Stddev	.0034282	.001851	.008257	.0011031	.0041227	.19541	.006358
%RSD	2.011251	3.068177	.3023400	1.111188	9.344919	.3834757	.4907092
#1	.1715738	-.058308	2.735889	.1005009	.0407014	50.74388	1.290529
#2	.1665991	-.060750	2.721547	.0989517	.0486970	51.12811	1.302717
#3	.1731725	-.061938	2.735808	.0983659	.0429544	50.99788	1.293483

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142320	.0063184	338.2181	.0969678	.0303833	.8606686	222.4062
Stddev	.0000920	.0001685	1.7056	.0003054	.0006392	.0043157	1.2322
%RSD	.6466621	2.666849	.5042851	.3149104	2.103801	.5014340	.5540190
#1	.0142168	.0063872	336.3542	.0966194	.0307562	.8556975	221.3374
#2	.0143306	.0061264	339.7008	.0970951	.0296452	.8634559	223.7539
#3	.0141485	.0064417	338.5993	.0971889	.0307484	.8628525	222.1273

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.802977	72.25676	.1703466	.0015646	.8062404	.1568743	1.508474
Stddev	.038127	.59963	.0009055	.0003158	.0568568	.0065042	.006324
%RSD	.4886163	.8298651	.5315602	20.18701	7.052085	4.146112	.4192157
#1	7.760243	71.65959	.1695383	.0018966	.7778899	.1571607	1.509849
#2	7.833510	72.85883	.1701764	.0015290	.8716980	.1502317	1.501576
#3	7.815177	72.25186	.1713251	.0012680	.7691332	.1632306	1.513997

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.021558	9.560984	.1148425	.0099132	3.829467	10.28449	.4440737
Stddev	.063449	.029245	.0023504	.0004300	.008474	.05530	.0046625
%RSD	.9036357	.3058781	2.046626	4.337119	.2212796	.5376884	1.049927
#1	6.973554	9.571806	.1128487	.0098166	3.837382	10.31834	.4387015
#2	7.093492	9.527870	.1142447	.0095397	3.820528	10.31445	.4470650
#3	6.997627	9.583275	.1174341	.0103832	3.830490	10.22068	.4464545

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-17 Acquired: 12/29/2024 7:44:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7298453	.2880738	.0775454
Stddev	.0147946	.0008203	.0023571
%RSD	2.027082	.2847449	3.039659
#1	.7210994	.2888207	.0748826
#2	.7469269	.2882048	.0783887
#3	.7215095	.2871959	.0793649

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2345.950	29669.55	2282.398	1495.310	1770.987
Stddev	7.815	243.05	19.943	6.318	5.298
%RSD	.3331146	.8191897	.8737938	.4225540	.2991293
#1	2336.939	29870.07	2288.754	1498.329	1766.168
#2	2350.044	29399.24	2260.051	1488.048	1776.660
#3	2350.867	29739.33	2298.389	1499.552	1770.132

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-18 Acquired: 12/29/2024 7:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1587798	-.030626	7.492044	.0792946	.2507722	66.73649
Stddev	.0036023	.004104	.013651	.0015196	.0024612	.08535
%RSD	2.268753	13.39996	.1822123	1.916394	.9814552	.1278909
#1	.1620840	-.028441	7.476442	.0797663	.2480585	66.64876
#2	.1549394	-.028078	7.501795	.0805224	.2513981	66.81924
#3	.1593159	-.035361	7.497893	.0775951	.2528601	66.74148

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.485101	.0124410	.0085558	169.2591	.1064368	.0666123
Stddev	.001613	.0000250	.0000967	.3170	.0011893	.0003863
%RSD	.1085958	.2005202	1.130143	.1872619	1.117416	.5799913
#1	1.486328	.0124574	.0084549	168.8952	.1053556	.0662214
#2	1.485699	.0124534	.0085649	169.4066	.1062440	.0669939
#3	1.483274	.0124123	.0086477	169.4753	.1077107	.0666216

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6229749	171.3754	14.46313	49.43640	.1788509	.0028450
Stddev	.0019571	.4239	.00534	.16092	.0001354	.0012547
%RSD	.3141494	.2473415	.0369309	.3255124	.0757301	44.10104
#1	.6209762	171.0069	14.45733	49.29077	.1787138	.0026396
#2	.6230611	171.2806	14.46420	49.40927	.1789846	.0017057
#3	.6248875	171.8387	14.46785	49.60916	.1788544	.0041897

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5131689	.1660497	1.223441	8.406937	F 13.14979	.0946948
Stddev	.0089063	.0052693	.001600	.066113	.04115	.0025640
%RSD	1.735556	3.173307	.1307633	.7864055	.3129089	2.707619
#1	.5161013	.1703287	1.223551	8.419518	13.10231	.0957025
#2	.5031661	.1676561	1.224984	8.335438	13.17198	.0917800
#3	.5202393	.1601642	1.221790	8.465855	13.17507	.0966018

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-18 Acquired: 12/29/2024 7:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116402	3.762622	10.72411	1.821732	.5208398	.1460284
Stddev	.0004926	.006022	.01379	.005718	.0033467	.0002910
%RSD	4.231543	.1600571	.1286239	.3138867	.6425532	.1992711
#1	.0111977	3.756365	10.71330	1.815175	.5227004	.1463027
#2	.0121709	3.763124	10.73965	1.825683	.5228428	.1460593
#3	.0115519	3.768378	10.71938	1.824338	.5169763	.1457232

Elem	Li6707
Units	ppm
Avg	.1056015
Stddev	.0029508
%RSD	2.794251
#1	.1032005
#2	.1088957
#3	.1047083

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2672.193	33535.71	2610.597	1697.695	1836.625
Stddev	15.038	44.33	3.161	5.618	7.249
%RSD	.5627696	.1321820	.1210807	.3309417	.3946778
#1	2689.215	33552.66	2612.108	1704.068	1844.954
#2	2666.655	33569.06	2606.964	1695.558	1833.180
#3	2660.708	33485.40	2612.719	1693.459	1831.742

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-19 Acquired: 12/29/2024 7:51:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1539405	-.021921	2.055378	.0829920	.0444455	68.44779
Stddev	.0088895	.006488	.005555	.0011248	.0047705	.25950
%RSD	5.774637	29.59687	.2702806	1.355364	10.73342	.3791254
#1	.1438982	-.022925	2.053419	.0819261	.0443728	68.15209
#2	.1571213	-.027848	2.051068	.0828821	.0397117	68.55362
#3	.1608020	-.014990	2.061648	.0841677	.0492519	68.63764

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.408067	.0121600	.0089444	225.9861	.1138227	.0707517
Stddev	.005643	.0002444	.0001817	.6075	.0011291	.0001179
%RSD	.4007572	2.010008	2.031696	.2688040	.9919524	.1666768
#1	1.401577	.0119142	.0089834	225.6166	.1146245	.0707018
#2	1.410802	.0121628	.0087464	225.6545	.1143121	.0706670
#3	1.411821	.0124031	.0091035	226.6872	.1125315	.0708864

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3948208	163.4904	15.96119	30.27891	.1800402	.0047090
Stddev	.0100397	.4785	.06938	.26407	.0008140	.0001086
%RSD	2.542838	.2927017	.4346910	.8721357	.4521173	2.306860
#1	.4063319	162.9828	15.90149	29.97791	.1808093	.0045877
#2	.3902545	163.5552	15.94477	30.47168	.1801237	.0047419
#3	.3878759	163.9333	16.03731	30.38713	.1791877	.0047974

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5084565	.1499712	1.006061	8.412418	F 13.08662	.0860267
Stddev	.0044978	.0060983	.003248	.149754	.03393	.0012162
%RSD	.8846027	4.066288	.3228147	1.780149	.2592695	1.413723
#1	.5061103	.1548441	1.002327	8.367942	13.05349	.0874278
#2	.5056169	.1519370	1.007626	8.289941	13.08508	.0852439
#3	.5136423	.1431325	1.008230	8.579372	13.12130	.0854084

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-19 Acquired: 12/29/2024 7:51:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135334	3.936822	10.69493	.2281838	.4518470	.2007268
Stddev	.0007415	.014029	.11166	.0027146	.0017281	.0010254
%RSD	5.479178	.3563620	1.044048	1.189672	.3824605	.5108589
#1	.0142987	3.920625	10.56653	.2273999	.4498756	.2002502
#2	.0134832	3.945183	10.74896	.2259474	.4531005	.2000263
#3	.0128182	3.944658	10.76929	.2312041	.4525649	.2019037

Elem	Li6707
Units	ppm
Avg	.0992918
Stddev	.0005414
%RSD	.5452157
#1	.0989262
#2	.0990356
#3	.0999137

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2757.206	34590.51	2677.599	1754.647	1845.517
Stddev	4.802	84.77	27.930	6.387	.669
%RSD	.1741601	.2450715	1.043101	.3640101	.0362670
#1	2751.788	34535.78	2709.832	1760.999	1845.317
#2	2760.938	34547.59	2660.570	1748.225	1846.263
#3	2758.891	34688.16	2662.393	1754.718	1844.970

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV037 Acquired: 12/29/2024 7:55:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV037 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.140308	4.800212	24.62472	5.063462	4.961454	400.3039	9.972228
Stddev	.021131	.009044	.06507	.017746	.009966	6.3863	.164294
%RSD	.4110912	.1884099	.2642489	.3504636	.2008710	1.595365	1.647516
#1	5.122274	4.798594	24.69334	5.049399	4.952843	403.1428	10.05659
#2	5.163559	4.792086	24.56389	5.083400	4.972371	404.7784	10.07720
#3	5.135092	4.809956	24.61694	5.057588	4.959147	392.9903	9.78289

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5003622	2.481599	398.6445	15.41791	2.400548	14.63346	401.8132
Stddev	.0095114	.005695	5.9973	.12318	.007219	.24517	6.9035
%RSD	1.900894	.2294899	1.504422	.7989175	.3007120	1.675437	1.718076
#1	.5084723	2.486754	401.5605	15.52286	2.405664	14.76388	404.2422
#2	.5027209	2.475485	402.6262	15.44857	2.392291	14.78586	407.1739
#3	.4898935	2.482558	391.7468	15.28230	2.403689	14.35064	394.0236

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.42599	395.5364	2.495868	1.270064	402.9175	2.437387	15.00201
Stddev	.23711	6.5525	.005385	.009836	5.3624	.043925	.10121
%RSD	1.643601	1.656599	.2157762	.7744802	1.330897	1.802121	.6746231
#1	14.54738	397.6576	2.501444	1.277531	407.7680	2.459254	15.11220
#2	14.57783	400.7654	2.490696	1.273742	403.8254	2.466087	14.98062
#3	14.15277	388.1861	2.495464	1.258918	397.1591	2.386821	14.91320

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	149.7139	5.003039	4.897165	4.956301	5.062166	4.773649	5.017874
Stddev	2.2514	.004057	.085958	.008566	.006428	.086017	.016403
%RSD	1.503773	.0810953	1.755255	.1728304	.1269750	1.801918	.3268921
#1	151.2278	4.998376	4.971620	4.946678	5.067380	4.855625	5.036587
#2	150.7871	5.004981	4.916779	4.959130	5.054984	4.781230	5.005982
#3	147.1267	5.005761	4.803095	4.963094	5.064133	4.684093	5.011053

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV037 Acquired: 12/29/2024 7:55:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV037 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.890569	4.687843	5.057244
Stddev	.084460	.067711	.080757
%RSD	1.727006	1.444399	1.596858
#1	4.924493	4.730554	5.091412
#2	4.952794	4.723202	5.115301
#3	4.794422	4.609772	4.965020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1843.265	23807.71	1970.137	1148.652	1559.736
Stddev	7.732	79.71	22.651	.815	10.033
%RSD	.4194491	.3348029	1.149738	.0709362	.6432311
#1	1838.572	23789.30	1952.184	1149.516	1550.647
#2	1852.188	23738.82	1962.641	1147.897	1570.501
#3	1839.034	23895.01	1995.587	1148.542	1558.059

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB037 Acquired: 12/29/2024 7:59:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB037 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004171	-.000151	.0002305	-.001563	-.001917	.0085760
Stddev	.004421	.003692	.0006320	.003296	.001191	.0277040
%RSD	105.9828	2439.372	274.1476	210.8187	62.13518	323.0421
#1	.000789	.002912	.0001303	-.001761	-.000607	.0357403
#2	-.007695	-.004250	-.000345	.001827	-.002209	.0096255
#3	-.005608	.000885	.000907	-.004756	-.002935	-.019638

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000486	.0000657	.0000254	.0128993	.0006833	.0001699
Stddev	.000187	.0000969	.0000428	.0291238	.0005985	.0001238
%RSD	38.49690	147.4845	168.3979	225.7777	87.58177	72.83457
#1	-.000308	.0001229	.0000033	-.019145	.0005954	.0001003
#2	-.000681	-.000046	-.000002	.020085	.0013209	.0000967
#3	-.000468	.000121	.000075	.037758	.0001337	.0003128

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002393	.0099732	.0003327	.0037057	.0003002	.0001253
Stddev	.002527	.0176129	.0008153	.0532237	.0003398	.0001785
%RSD	105.5948	176.6010	245.0231	1436.251	113.1979	142.4123
#1	-.004090	.0128269	.0012665	-.056806	.0000336	-.000081
#2	.000511	.0259850	-.000238	.043262	.0006828	.000225
#3	-.003600	-.008892	-.000030	.024661	.0001841	.000232

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0415786	-.018388	.0029842	.1202954	.0037360	.0103404
Stddev	.0094558	.006012	.0004803	.0435456	.0024227	.0016576
%RSD	22.74188	32.69299	16.09663	36.19893	64.84727	16.03004
#1	.0523180	-.024347	.0035300	.1072436	.0055331	.0101720
#2	.0345027	-.012325	.0027969	.1688744	.0046940	.0120758
#3	.0379152	-.018492	.0026257	.0847682	.0009808	.0087735

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB037 Acquired: 12/29/2024 7:59:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB037 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007120	.0019051	.0003104	.0011220	.0044244	.0001045
Stddev	.0001596	.0028207	.0001008	.0009543	.0014882	.0001989
%RSD	22.42026	148.0622	32.45989	85.05172	33.63600	190.2569
#1	.0005463	.0023217	.0002050	.0015842	.0045773	-.000122
#2	.0007250	-.001101	.0003206	.0000246	.0028657	.000251
#3	.0008647	.004494	.0004058	.0017572	.0058303	.000185

Elem	Li6707
Units	ppm
Avg	F .0270958
Stddev	.0040683
%RSD	15.01462
#1	.0245892
#2	.0317899
#3	.0249083

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2057.591	25926.85	1975.636	1314.068	1857.923
Stddev	10.443	167.83	8.701	10.174	6.773
%RSD	.5075165	.6473027	.4403904	.7742243	.3645564
#1	2047.646	26069.50	1966.523	1324.756	1852.073
#2	2068.469	25741.93	1983.854	1304.501	1865.343
#3	2056.659	25969.12	1976.533	1312.949	1856.353

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5035-20 Acquired: 12/29/2024 8:03:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0766975	.0307425	.6724285	.0235605	-.003619	46.46861
Stddev	.0090901	.0059854	.0037362	.0091551	.002920	.12942
%RSD	11.85188	19.46954	.5556281	38.85791	80.68176	.2785182
#1	.0844772	.0308568	.6755793	.0206446	-.006847	46.59798
#2	.0667054	.0247007	.6683010	.0162184	-.002846	46.33913
#3	.0789098	.0366699	.6734052	.0338183	-.001163	46.46871

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.576160	.0083097	.0067142	F 2250.325	.0781788	.0959698
Stddev	.004071	.0000684	.0000712	32.979	.0005282	.0002135
%RSD	.2582800	.8234041	1.060275	1.465537	.6756679	.2224597
#1	1.580777	.0083839	.0067942	2264.188	.0787692	.0958957
#2	1.573086	.0082491	.0066580	2274.110	.0777509	.0962105
#3	1.574618	.0082961	.0066902	2212.677	.0780162	.0958033

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2649383	121.3364	19.09625	60.17673	.1684492	.0027818
Stddev	.0050006	.4300	.04128	.20322	.0006878	.0008469
%RSD	1.887440	.3544214	.2161562	.3377029	.4082993	30.44262
#1	.2602625	121.8206	19.13881	60.37651	.1683151	.0034388
#2	.2702102	120.9990	19.05638	59.97024	.1678383	.0018261
#3	.2643424	121.1896	19.09355	60.18344	.1691941	.0030806

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.391459	.0852032	.4871894	4.491174	9.378990	.0812555
Stddev	.033397	.0143655	.0035207	.143030	.003500	.0027124
%RSD	2.400125	16.86024	.7226607	3.184699	.0373207	3.338156
#1	1.423559	.0878534	.4911150	4.510603	9.377214	.0798747
#2	1.356901	.0980590	.4843113	4.623497	9.383023	.0795112
#3	1.393916	.0696971	.4861418	4.339423	9.376734	.0843805

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-20 Acquired: 12/29/2024 8:03:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000389	4.673208	8.156772	.0822705	.1856943	1.944307
Stddev	.000364	.017319	.055236	.0027505	.0025496	.004828
%RSD	93.46437	.3705955	.6771830	3.343212	1.373001	.2483319
#1	.000030	4.676958	8.220110	.0790945	.1861259	1.945183
#2	-.000618	4.654321	8.131604	.0838522	.1880005	1.948638
#3	-.000580	4.688344	8.118602	.0838648	.1829564	1.939101

Elem	Li6707
Units	ppm
Avg	.0790635
Stddev	.0029005
%RSD	3.668569
#1	.0821550
#2	.0786335
#3	.0764020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2464.869	30991.93	2570.834	1568.903	1504.731
Stddev	4.707	139.54	13.652	6.607	3.973
%RSD	.1909759	.4502589	.5310405	.4211042	.2640332
#1	2470.287	31119.86	2565.366	1568.202	1508.028
#2	2462.536	30843.12	2560.764	1562.675	1505.847
#3	2461.784	31012.81	2586.373	1575.832	1500.320

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-21 Acquired: 12/29/2024 8:07:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0966098	-.020541	1.030037	.0513932	.0101914	60.08708
Stddev	.0063312	.007334	.007238	.0058849	.0034181	.32101
%RSD	6.553328	35.70547	.7027268	11.45065	33.53884	.5342439
#1	.0914349	-.027523	1.024287	.0574254	.0129608	59.75477
#2	.1036693	-.021202	1.027659	.0510865	.0112421	60.39545
#3	.0947253	-.012899	1.038166	.0456677	.0063713	60.11103

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9146888	.0091871	.0058651	170.7042	.1686092	.0546822
Stddev	.0039529	.0002467	.0001083	.8786	.0017600	.0006634
%RSD	.4321627	2.684810	1.847180	.5146886	1.043829	1.213151
#1	.9101244	.0092318	.0059369	170.1167	.1668760	.0541028
#2	.9169671	.0094085	.0057405	171.7142	.1685567	.0545380
#3	.9169750	.0089212	.0059180	170.2817	.1703948	.0554059

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2726260	132.4728	8.466176	46.35163	.1778915	.0027544
Stddev	.0023821	.8220	.045545	.35967	.0007305	.0006251
%RSD	.8737744	.6204769	.5379689	.7759643	.4106738	22.69498
#1	.2744873	131.6031	8.413612	45.97278	.1772481	.0020349
#2	.2699414	133.2367	8.493906	46.68842	.1777408	.0030642
#3	.2734491	132.5787	8.491011	46.39370	.1786857	.0031641

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4267311	.1361199	1.586626	8.991159	F 10.60920	.1084154
Stddev	.0084679	.0027883	.008181	.073061	.06268	.0005200
%RSD	1.984358	2.048441	.5156316	.8125920	.5907677	.4796126
#1	.4221203	.1329120	1.580797	9.013890	10.56360	.1083705
#2	.4215692	.1374862	1.583102	9.050154	10.58335	.1079194
#3	.4365038	.1379616	1.595979	8.909435	10.68067	.1089564

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-21 Acquired: 12/29/2024 8:07:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096423	4.519279	10.73671	.0516317	.7011965	.1115237
Stddev	.0010282	.031351	.08314	.0007307	.0051641	.0009888
%RSD	10.66311	.6937189	.7743074	1.415250	.7364703	.8866484
#1	.0086128	4.489244	10.75459	.0513412	.7004356	.1118466
#2	.0106691	4.516795	10.80945	.0524630	.7066988	.1123108
#3	.0096450	4.551798	10.64608	.0510909	.6964550	.1104138

Elem	Li6707
Units	ppm
Avg	.0774566
Stddev	.0049540
%RSD	6.395905
#1	.0717365
#2	.0802607
#3	.0803726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2371.662	29870.01	2337.073	1524.739	1848.129
Stddev	12.447	138.57	9.793	9.757	12.155
%RSD	.5248364	.4639113	.4190266	.6399345	.6577040
#1	2385.570	29923.88	2332.253	1528.557	1861.486
#2	2367.851	29973.55	2330.624	1532.011	1845.186
#3	2361.567	29712.59	2348.342	1513.650	1837.716

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-22 Acquired: 12/29/2024 8:11:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1196768	-.054733	1.251377	.0957331	.0247505	84.81056
Stddev	.0009289	.002951	.005986	.0034430	.0049320	.21576
%RSD	.7761592	5.392214	.4783275	3.596458	19.92704	.2543998
#1	.1206467	-.056585	1.244820	.0991256	.0259757	85.03911
#2	.1195886	-.051330	1.252761	.0958321	.0193213	84.61042
#3	.1187952	-.056284	1.256549	.0922417	.0289544	84.78214

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.318342	.0128689	.0083853	55.91419	.1398653	.0485244
Stddev	.001945	.0001439	.0000996	.12896	.0004770	.0007867
%RSD	.1475248	1.118546	1.188142	.2306303	.3410551	1.621332
#1	1.320454	.0127709	.0083143	56.05921	.1399942	.0476432
#2	1.317945	.0130341	.0084992	55.81243	.1393371	.0491565
#3	1.316626	.0128015	.0083423	55.87092	.1402646	.0487733

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2947782	175.7487	8.981297	26.90187	.2343267	.0008243
Stddev	.0023310	.4835	.040876	.07223	.0010339	.0004257
%RSD	.7907512	.2751213	.4551214	.2684935	.4412248	51.64581
#1	.2930269	176.1848	9.027407	26.92546	.2341596	.0011005
#2	.2974239	175.2288	8.949509	26.82079	.2333865	.0003341
#3	.2938837	175.8326	8.966976	26.95935	.2354340	.0010384

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4238115	.1754721	1.776942	9.648780	F 14.48604	.1016870
Stddev	.0294282	.0052832	.005158	.109998	.02125	.0016848
%RSD	6.943710	3.010876	.2902828	1.140020	.1467130	1.656807
#1	.4457370	.1738928	1.771496	9.669331	14.46757	.1002494
#2	.3903660	.1813649	1.777575	9.529956	14.48129	.1012708
#3	.4353316	.1711586	1.781754	9.747054	14.50927	.1035409

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5035-22 Acquired: 12/29/2024 8:11:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKQ1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059940	5.661101	12.37386	.0570362	.6698319	-.024448
Stddev	.0001277	.024343	.07394	.0025392	.0008442	.000131
%RSD	2.130612	.4299979	.5975377	4.451838	.1260268	.5377013
#1	.0059048	5.642688	12.45006	.0580518	.6691696	-.024587
#2	.0059369	5.651914	12.30241	.0541465	.6707825	-.024431
#3	.0061403	5.688700	12.36910	.0589104	.6695437	-.024325

Elem	Li6707
Units	ppm
Avg	.1115879
Stddev	.0008103
%RSD	.7261468
#1	.1106830
#2	.1122462
#3	.1118347

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2670.390	33469.40	2606.880	1692.903	1861.026
Stddev	4.217	123.18	15.537	10.522	4.553
%RSD	.1579310	.3680412	.5960106	.6215325	.2446725
#1	2672.682	33502.68	2591.865	1700.628	1863.343
#2	2672.965	33572.52	2622.891	1697.161	1863.955
#3	2665.523	33333.00	2605.884	1680.919	1855.780

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-01 Acquired: 12/29/2024 8:15:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK33 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1692842	-.036037	.6442625	.1057371	.0283666	71.62462	.9619486
Stddev	.0056454	.001355	.0008681	.0046930	.0022644	.07151	.0017703
%RSD	3.334874	3.761180	.1347403	4.438385	7.982809	.0998356	.1840305
#1	.1719178	-.034833	.6433975	.1111512	.0296534	71.59068	.9613741
#2	.1731316	-.035772	.6451337	.1028294	.0257519	71.70678	.9605368
#3	.1628032	-.037505	.6442562	.1032308	.0296944	71.57640	.9639347

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125625	.0163896	81.37964	.0940253	.0806568	.1791052	195.2612
Stddev	.0002446	.0000903	.13821	.0005452	.0008106	.0059125	.2293
%RSD	1.946844	.5509879	.1698375	.5798226	1.004963	3.301132	.1174536
#1	.0126777	.0163985	81.50793	.0936016	.0807512	.1739653	195.0153
#2	.0127281	.0162952	81.39772	.0946403	.0798032	.1855667	195.4693
#3	.0122816	.0164752	81.23328	.0938339	.0814160	.1777836	195.2990

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.52133	30.83209	.1942588	.0038445	2.888224	.1579488	1.027294
Stddev	.03777	.06071	.0008427	.0009017	.030913	.0078802	.001237
%RSD	.1677231	.1969012	.4338207	23.45427	1.070311	4.989103	.1203705
#1	22.52778	30.81820	.1952213	.0028040	2.923898	.1669586	1.026232
#2	22.55546	30.89854	.1936535	.0043981	2.869329	.1545461	1.026998
#3	22.48075	30.77953	.1939016	.0043314	2.871444	.1523415	1.028651

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.693269	4.163469	.0858938	.0054045	3.702929	10.84291	.0250090
Stddev	.135032	.004532	.0042349	.0004726	.012567	.10217	.0009991
%RSD	2.017429	.1088608	4.930427	8.745329	.3393707	.9422493	3.995138
#1	6.563383	4.159062	.0877048	.0048613	3.710550	10.86381	.0261020
#2	6.832917	4.163228	.0810545	.0057213	3.688424	10.93301	.0241425
#3	6.683506	4.168117	.0889222	.0056310	3.709812	10.73191	.0247825

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-01 Acquired: 12/29/2024 8:15:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK33 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4314469	-.048970	.0504494
Stddev	.0037281	.000045	.0032133
%RSD	.8640962	.0920429	6.369349
#1	.4299157	-.049004	.0540108
#2	.4356968	-.048987	.0495699
#3	.4287281	-.048919	.0477674

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2977.712	37512.96	2870.081	1908.589	1850.625
Stddev	11.722	207.69	13.520	13.673	7.409
%RSD	.3936543	.5536459	.4710796	.7163746	.4003600
#1	2989.475	37506.16	2865.122	1911.263	1855.889
#2	2977.630	37723.96	2859.740	1920.726	1853.834
#3	2966.032	37308.75	2885.380	1893.776	1842.152

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-02 Acquired: 12/29/2024 8:19:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1022675	-.046867	.9329767	.0850377	.0212233	67.17915
Stddev	.0100030	.005409	.0027079	.0015102	.0020451	.38612
%RSD	9.781209	11.54220	.2902441	1.775875	9.636106	.5747613
#1	.1133063	-.040655	.9329663	.0835704	.0232249	66.75304
#2	.0938038	-.050543	.9356899	.0865874	.0191373	67.50583
#3	.0996925	-.049402	.9302741	.0849553	.0213076	67.27859

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.237857	.0121551	.0065761	111.1942	.1261271	.0377335
Stddev	.007159	.0001712	.0000711	.6080	.0018174	.0001972
%RSD	.5783755	1.408569	1.081309	.5467744	1.440954	.5225268
#1	1.229890	.0119769	.0066575	110.5217	.1276111	.0375156
#2	1.243751	.0123183	.0065258	111.7049	.1241000	.0377855
#3	1.239931	.0121700	.0065452	111.3559	.1266702	.0378995

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2181599	171.7519	7.274459	36.10523	.1707996	.0006840
Stddev	.0015649	.9189	.020956	.13873	.0001061	.0010517
%RSD	.7173122	.5350001	.2880756	.3842268	.0621203	153.7588
#1	.2168786	170.7453	7.254650	35.95128	.1707339	.0009111
#2	.2199040	172.5456	7.296399	36.14389	.1709220	.0016036
#3	.2176971	171.9648	7.272329	36.22054	.1707430	-.000463

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4850555	.1688976	1.349876	7.708511	F 11.16164	.0905250
Stddev	.0264754	.0057313	.005290	.162632	.00933	.0041634
%RSD	5.458222	3.393369	.3919156	2.109769	.0835628	4.599218
#1	.5143936	.1703184	1.345475	7.818564	11.16001	.0858000
#2	.4778299	.1737849	1.348409	7.785262	11.15324	.0921197
#3	.4629431	.1625895	1.355746	7.521707	11.17168	.0936554

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-02 Acquired: 12/29/2024 8:19:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075002	3.837846	12.09763	.0788890	.8694786	.0224525
Stddev	.0003542	.011455	.10783	.0005863	.0021677	.0002330
%RSD	4.722825	.2984760	.8913662	.7432164	.2493130	1.037864
#1	.0076247	3.844022	12.10772	.0787189	.8673852	.0226310
#2	.0071005	3.824628	12.20007	.0784065	.8717137	.0225377
#3	.0077753	3.844888	11.98511	.0795415	.8693367	.0221889

Elem	Li6707
Units	ppm
Avg	.1066487
Stddev	.0044013
%RSD	4.126877
#1	.1028282
#2	.1114614
#3	.1056567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2418.000	30477.32	2329.116	1546.057	1833.938
Stddev	9.454	99.22	15.930	12.168	6.453
%RSD	.3909893	.3255601	.6839458	.7870337	.3518562
#1	2410.693	30544.87	2334.273	1556.202	1828.803
#2	2414.629	30523.68	2311.246	1549.402	1831.829
#3	2428.677	30363.40	2341.828	1532.566	1841.181

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-03 Acquired: 12/29/2024 8:22:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0910726	-.033371	.9703200	.0636944	.0116208	61.23206
Stddev	.0017766	.005946	.0012357	.0034324	.0024176	.06530
%RSD	1.950737	17.81842	.1273491	5.388876	20.80422	.1066458
#1	.0916404	-.027952	.9699718	.0644419	.0092667	61.21566
#2	.0924960	-.039732	.9716924	.0599499	.0140973	61.30400
#3	.0890816	-.032428	.9692957	.0666915	.0114984	61.17652

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.151257	.0101901	.0071360	115.3862	.1122269	.0456599
Stddev	.002381	.0000169	.0000637	.1340	.0007128	.0001234
%RSD	.2068355	.1654538	.8930510	.1161409	.6351293	.2701707
#1	1.152190	.0101737	.0071861	115.2674	.1129030	.0456702
#2	1.153031	.0101892	.0071578	115.5315	.1114824	.0455317
#3	1.148551	.0102074	.0070643	115.3597	.1122955	.0457778

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1925802	138.0142	6.713374	32.08838	.1577390	.0000378
Stddev	.0081192	.0332	.007158	.02240	.0001089	.0011563
%RSD	4.216026	.0240334	.1066242	.0698101	.0690378	3058.478
#1	.1873391	138.0016	6.715877	32.09083	.1578252	-.000651
#2	.1884688	138.0519	6.718945	32.10946	.1576166	.001373
#3	.2019328	137.9892	6.705301	32.06486	.1577751	-.000608

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5536618	.1563511	1.311080	5.297548	F 14.68298	.0705816
Stddev	.0127914	.0047047	.005817	.146345	.01246	.0030139
%RSD	2.310331	3.009095	.4437081	2.762497	.0848862	4.270062
#1	.5494202	.1516881	1.315900	5.302967	14.66917	.0709306
#2	.5435299	.1562688	1.304618	5.441108	14.68639	.0674084
#3	.5680352	.1610965	1.312723	5.148569	14.69339	.0734058

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-03 Acquired: 12/29/2024 8:22:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062468	3.030294	11.66976	.1619859	.5913286	.0813851
Stddev	.0005839	.006609	.12067	.0018319	.0061093	.0009735
%RSD	9.347108	.2181081	1.034072	1.130915	1.033146	1.196190
#1	.0055744	3.035601	11.73661	.1639118	.5846249	.0820653
#2	.0066260	3.032390	11.74222	.1602653	.5927780	.0818202
#3	.0065400	3.022890	11.53046	.1617806	.5965828	.0802700

Elem	Li6707
Units	ppm
Avg	.0918710
Stddev	.0016352
%RSD	1.779897
#1	.0923798
#2	.0931913
#3	.0900419

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.704	32461.46	2469.868	1646.752	1886.695
Stddev	9.899	141.47	9.436	10.910	6.799
%RSD	.3835832	.4358030	.3820514	.6625055	.3603866
#1	2587.547	32555.84	2465.025	1650.865	1891.508
#2	2585.212	32529.74	2463.837	1655.007	1889.662
#3	2569.354	32298.81	2480.742	1634.383	1878.917

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-04 Acquired: 12/29/2024 8:26:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1008248	-.041042	.6627047	.0668210	.0145535	74.86053	1.335199
Stddev	.0059925	.010541	.0036053	.0030348	.0016133	.28596	.001252
%RSD	5.943504	25.68312	.5440324	4.541655	11.08509	.3819875	.0937416
#1	.1063173	-.031982	.6666879	.0697942	.0126923	74.53370	1.334390
#2	.1017233	-.038532	.6617611	.0637282	.0155529	75.06467	1.334566
#3	.0944337	-.052611	.6596649	.0669407	.0154153	74.98323	1.336641

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116135	.0064045	182.3489	.1224149	.0489166	.1806502	161.5125
Stddev	.0001705	.0001393	.4616	.0011557	.0002799	.0091209	.6340
%RSD	1.468379	2.174614	.2531656	.9440662	.5722502	5.048917	.3925671
#1	.0115566	.0064085	181.8446	.1211655	.0490982	.1822539	160.9163
#2	.0118053	.0065418	182.4513	.1234455	.0490574	.1888628	162.1786
#3	.0114788	.0062633	182.7507	.1226338	.0485942	.1708338	161.4424

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.523899	38.17604	.1601268	.0002339	.5288246	.1815995	.9475899
Stddev	.025519	.27619	.0005580	.0013972	.0047601	.0025753	.0068417
%RSD	.2993799	.7234625	.3484780	597.3107	.9001267	1.418111	.7220056
#1	8.495553	37.89881	.1594850	.0018181	.5248536	.1787006	.9397582
#2	8.545044	38.45117	.1603980	-.000294	.5275190	.1824751	.9524038
#3	8.531099	38.17813	.1604974	-.000822	.5341013	.1836228	.9506077

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.772976	9.524708	.0798212	.0060137	2.404722	12.72167	.0576667
Stddev	.121060	.014700	.0005397	.0005324	.005957	.14184	.0018746
%RSD	2.097011	.1543395	.6761664	8.853096	.2477219	1.114952	3.250804
#1	5.709785	9.508082	.0796649	.0054423	2.398168	12.55877	.0585339
#2	5.696587	9.530055	.0793769	.0061031	2.406190	12.81785	.0555155
#3	5.912556	9.535986	.0804218	.0064958	2.409807	12.78839	.0589507

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-04 Acquired: 12/29/2024 8:26:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7882637	.0925738	.1178052
Stddev	.0007691	.0008829	.0010419
%RSD	.0975728	.9537084	.8844008
#1	.7875124	.0930920	.1182315
#2	.7882292	.0915544	.1185664
#3	.7890495	.0930750	.1166178

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2444.993	30800.05	2393.423	1564.880	1808.984
Stddev	6.421	182.51	19.754	12.201	7.201
%RSD	.2625987	.5925577	.8253390	.7796706	.3980743
#1	2438.680	30947.66	2412.818	1572.825	1801.924
#2	2451.516	30856.49	2394.121	1570.983	1816.318
#3	2444.783	30595.98	2373.329	1550.832	1808.711

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-05 Acquired: 12/29/2024 8:30:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0619006	-.034063	.2176605	.0526454	.0101304	73.71178	.9647368
Stddev	.0074381	.003002	.0017561	.0046951	.0017000	.39232	.0047984
%RSD	12.01623	8.813998	.8068265	8.918245	16.78079	.5322339	.4973788
#1	.0535831	-.035420	.2196857	.0580639	.0104620	74.15879	.9702669
#2	.0679141	-.030622	.2165574	.0500890	.0082891	73.55188	.9616749
#3	.0642045	-.036148	.2167386	.0497833	.0116402	73.42466	.9622687

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109343	.0040496	582.2718	.1114179	.0597427	.0699690	159.8238
Stddev	.0001005	.0001486	3.5047	.0004119	.0008842	.0008835	.5560
%RSD	.9190610	3.668589	.6018997	.3696920	1.479982	1.262671	.3478556
#1	.0110299	.0038932	586.3170	.1118192	.0588913	.0690002	160.4239
#2	.0109433	.0041888	580.3497	.1114383	.0596806	.0707302	159.7213
#3	.0108295	.0040669	580.1487	.1109962	.0606564	.0701766	159.3263

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.087145	78.03080	.1634852	-.000624	.8191129	.1743509	.4106533
Stddev	.042729	.47135	.0004026	.001036	.0040297	.0084502	.0018650
%RSD	.7019589	.6040526	.2462329	165.9460	.4919642	4.846667	.4541537
#1	6.136126	78.56416	.1631649	-.001801	.8146206	.1664108	.4085797
#2	6.057512	77.85801	.1633537	.000150	.8224093	.1832323	.4111866
#3	6.067796	77.67024	.1639371	-.000222	.8203090	.1734097	.4121935

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.200934	7.749017	.0762588	.0042068	2.322873	11.46558	.0372939
Stddev	.125132	.007601	.0007519	.0001731	.005325	.06966	.0007653
%RSD	2.405959	.0980892	.9859848	4.114393	.2292439	.6075861	2.052196
#1	5.060349	7.741033	.0760953	.0042852	2.319045	11.54054	.0364133
#2	5.242330	7.756165	.0770790	.0043268	2.320620	11.40282	.0376698
#3	5.300123	7.749853	.0756022	.0040084	2.328954	11.45339	.0377987

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-05 Acquired: 12/29/2024 8:30:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8611208	.4204635	.1298659
Stddev	.0087328	.0031600	.0023361
%RSD	1.014125	.7515572	1.798871
#1	.8687592	.4240904	.1286943
#2	.8516004	.4189962	.1325560
#3	.8630028	.4183039	.1283474

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2380.796	30211.93	2344.385	1522.935	1713.734
Stddev	4.007	76.19	13.008	1.849	2.368
%RSD	.1683254	.2521748	.5548390	.1214024	.1381968
#1	2384.127	30124.24	2329.429	1524.401	1713.203
#2	2376.349	30261.87	2353.062	1523.547	1711.675
#3	2381.912	30249.68	2350.663	1520.858	1716.322

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-06 Acquired: 12/29/2024 8:34:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0315051	-.014462	.0862549	.0265618	.0021783	55.79931	.5360826
Stddev	.0022665	.002123	.0020172	.0121711	.0046303	.07219	.0012509
%RSD	7.194099	14.67854	2.338634	45.82192	212.5693	.1293752	.2333413
#1	.0328593	-.016383	.0841882	.0144958	.0047734	55.75101	.5349512
#2	.0288885	-.014820	.0863579	.0388353	.0049290	55.76461	.5358706
#3	.0327675	-.012183	.0882187	.0263542	-.003168	55.88229	.5374259

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079282	.0020963	537.4638	.0857738	.0586668	.0695669	121.0589
Stddev	.0000522	.0002276	.4221	.0006934	.0008054	.0076199	.1595
%RSD	.6583456	10.85578	.0785294	.8083702	1.372795	10.95339	.1317646
#1	.0078824	.0018920	537.2304	.0861610	.0580058	.0781930	121.2268
#2	.0079172	.0020552	537.2099	.0861871	.0595638	.0637517	120.9093
#3	.0079850	.0023416	537.9510	.0849733	.0584308	.0667561	121.0406

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.268391	87.48777	.1354961	-.000063	.9913578	.1213917	.2379943
Stddev	.007255	.14832	.0006572	.001291	.0199867	.0121545	.0020496
%RSD	.2219818	.1695346	.4850365	2035.266	2.016088	10.01266	.8611925
#1	3.272194	87.56193	.1347546	.001069	.9969950	.1075196	.2383012
#2	3.260025	87.58440	.1360068	.000209	.9691580	.1264815	.2398731
#3	3.272953	87.31700	.1357269	-.001468	1.007921	.1301738	.2358085

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.744752	7.277226	.0639051	.0024777	1.022701	10.25475	.0236048
Stddev	.066721	.019814	.0021919	.0008965	.007310	.04336	.0002807
%RSD	1.406204	.2722722	3.429928	36.17984	.7147769	.4228418	1.189229
#1	4.775824	7.265155	.0613766	.0018608	1.025334	10.30269	.0232931
#2	4.790270	7.266429	.0652653	.0020664	1.028330	10.24331	.0238377
#3	4.668162	7.300093	.0650735	.0035061	1.014439	10.21826	.0236837

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-06 Acquired: 12/29/2024 8:34:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9785920	.4648778	.0967133
Stddev	.0098276	.0016328	.0040199
%RSD	1.004258	.3512270	4.156491
#1	.9777303	.4666924	.0949695
#2	.9692236	.4635273	.0938598
#3	.9888220	.4644137	.1013107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2310.178	29257.02	2288.487	1471.308	1684.615
Stddev	2.826	52.86	1.140	4.774	2.417
%RSD	.1223447	.1806629	.0498281	.3244413	.1434586
#1	2313.096	29268.79	2288.768	1471.206	1686.963
#2	2309.985	29199.27	2287.232	1466.587	1682.135
#3	2307.453	29303.00	2289.460	1476.132	1684.747

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-07 Acquired: 12/29/2024 8:38:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0456899	-.005706	.1155860	.0319493	-.002307	43.83857	.4715028
Stddev	.0085892	.002737	.0033335	.0039940	.005102	.12523	.0026411
%RSD	18.79880	47.96998	2.884046	12.50099	221.1786	.2856614	.5601428
#1	.0554508	-.005873	.1137429	.0364751	-.000712	43.95925	.4733007
#2	.0392874	-.008357	.1135810	.0304543	-.008015	43.70924	.4684705
#3	.0423314	-.002889	.1194342	.0289185	.001807	43.84722	.4727371

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076689	.0027902	722.2819	.0598370	.0624395	.1361059	126.2477
Stddev	.0002202	.0000675	2.0560	.0008581	.0012389	.0067191	.4802
%RSD	2.871693	2.418007	.2846484	1.433996	1.984151	4.936684	.3803772
#1	.0074885	.0027560	724.5132	.0588488	.0624603	.1383180	126.5539
#2	.0079143	.0027466	720.4642	.0602697	.0636678	.1414401	125.6942
#3	.0076038	.0028679	721.8682	.0603926	.0611903	.1285596	126.4950

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.918446	138.6213	.1215027	.0003634	1.288002	.1110903	.2870076
Stddev	.020198	.3970	.0010167	.0014848	.014906	.0026269	.0022868
%RSD	.2550752	.2864116	.8367513	408.5615	1.157315	2.364647	.7967610
#1	7.914535	138.7685	.1223569	-.001338	1.303856	.1116796	.2843721
#2	7.900489	138.1717	.1217731	.001031	1.274271	.1082188	.2884659
#3	7.940313	138.9238	.1203782	.001397	1.285879	.1133724	.2881848

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.697027	8.690706	.0735771	.0044472	.8083433	10.31170	.0224297
Stddev	.187936	.011171	.0050396	.0005353	.0042602	.08079	.0023468
%RSD	4.001173	.1285369	6.849357	12.03750	.5270259	.7834470	10.46297
#1	4.562238	8.678634	.0793335	.0041336	.8082582	10.33182	.0247700
#2	4.911711	8.692807	.0699606	.0050653	.8041263	10.22276	.0200764
#3	4.617134	8.700677	.0714373	.0041426	.8126454	10.38053	.0224426

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-07 Acquired: 12/29/2024 8:38:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6520557	.6555343	.0806253
Stddev	.0047212	.0017653	.0033093
%RSD	.7240555	.2692980	4.104500
#1	.6472413	.6575459	.0794117
#2	.6522479	.6542432	.0843701
#3	.6566779	.6548137	.0780942

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2244.973	28484.95	2193.163	1432.484	1635.153
Stddev	4.908	38.21	15.436	8.118	.603
%RSD	.2186109	.1341449	.7038009	.5667181	.0368672
#1	2250.012	28527.39	2190.253	1441.549	1634.457
#2	2244.697	28474.17	2209.847	1430.020	1635.515
#3	2240.208	28453.28	2179.390	1425.883	1635.487

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-08 Acquired: 12/29/2024 8:42:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0474717	-.005593	.1121183	.0215045	-.005403	42.39843	.4566553
Stddev	.0043619	.004896	.0021638	.0070915	.001662	.48596	.0039504
%RSD	9.188461	87.54164	1.929892	32.97668	30.75940	1.146185	.8650619
#1	.0488839	-.011234	.1133486	.0205678	-.004214	42.53109	.4562113
#2	.0509525	-.002441	.1133864	.0149279	-.004694	41.85991	.4529457
#3	.0425786	-.003104	.1096199	.0290178	-.007302	42.80428	.4608089

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072781	.0026978	701.6404	.0580828	.0608179	.1362173	122.6794
Stddev	.0001248	.0000802	7.3090	.0014645	.0003705	.0067510	1.3184
%RSD	1.714919	2.973949	1.041700	2.521328	.6092123	4.956043	1.074707
#1	.0074132	.0027891	703.7105	.0576066	.0605210	.1300936	123.0048
#2	.0071671	.0026660	693.5196	.0597260	.0612332	.1351017	121.2288
#3	.0072539	.0026384	707.6910	.0569156	.0606997	.1434566	123.8047

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.693537	134.3414	.1169902	.0000482	1.244557	.1020613	.2819936
Stddev	.077600	1.5609	.0010146	.0006530	.009013	.0052128	.0016499
%RSD	1.008645	1.161917	.8672555	1356.019	.7242011	5.107518	.5850928
#1	7.706539	134.4489	.1161876	.0003438	1.242094	.0960496	.2816563
#2	7.610257	132.7294	.1166524	-.000700	1.237031	.1048062	.2837862
#3	7.763815	135.8457	.1181306	.000501	1.254545	.1053280	.2805384

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.302736	8.429749	.0727120	.0045573	.7866957	9.720720	.0216907
Stddev	.088223	.021636	.0018811	.0006819	.0060699	.063603	.0039068
%RSD	2.050385	.2566648	2.587013	14.96293	.7715653	.6542986	18.01142
#1	4.231332	8.437566	.0716956	.0043856	.7850135	9.783594	.0228457
#2	4.275514	8.405291	.0715579	.0039776	.7816444	9.656414	.0173366
#3	4.401361	8.446391	.0748826	.0053086	.7934293	9.722153	.0248898

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-08 Acquired: 12/29/2024 8:42:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6239787	.6377072	.0770308
Stddev	.0052705	.0071407	.0041385
%RSD	.8446575	1.119743	5.372551
#1	.6231211	.6409500	.0804933
#2	.6191897	.6295206	.0724472
#3	.6296254	.6426511	.0781518

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2298.164	29187.86	2307.444	1467.400	1680.762
Stddev	9.198	105.27	22.453	8.593	6.170
%RSD	.4002543	.3606786	.9730527	.5856165	.3670720
#1	2307.429	29080.85	2284.245	1458.250	1687.550
#2	2289.033	29191.42	2329.067	1468.650	1675.497
#3	2298.029	29291.31	2309.021	1475.300	1679.238

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-07LX5 Acquired: 12/29/2024 8:46:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003033	.0268094	.0248912	-.022331	-.016720	9.620057	.0947532
Stddev	.005956	.0014001	.0017330	.002463	.004805	.032163	.0011912
%RSD	196.3712	5.222326	6.962372	11.02762	28.73720	.3343308	1.257158
#1	-.008367	.0279860	.0228931	-.019892	-.021749	9.632250	.0957380
#2	-.004127	.0252609	.0259852	-.022285	-.012177	9.644339	.0934292
#3	.003394	.0271812	.0257953	-.024817	-.016233	9.583580	.0950925

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015665	.0003334	165.1862	.0143254	.0402456	.0272736	27.13662
Stddev	.0000737	.0000900	.5198	.0001756	.0001479	.0048393	.04712
%RSD	4.706623	27.00796	.3146645	1.225766	.3674905	17.74359	.1736316
#1	.0016124	.0003275	164.7792	.0143367	.0400752	.0296208	27.12427
#2	.0016056	.0004262	165.0078	.0144951	.0403207	.0304917	27.18869
#3	.0014814	.0002465	165.7717	.0141444	.0403409	.0217083	27.09691

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.584107	34.39712	.0229903	.0002006	.2551755	.0189706	.0660662
Stddev	.003457	.09402	.0002363	.0008696	.0223475	.0171081	.0003719
%RSD	.2182522	.2733488	1.027975	433.4216	8.757685	90.18251	.5629452
#1	1.584461	34.46701	.0230704	.0005609	.2524569	.0302485	.0658620
#2	1.580487	34.43411	.0227243	.0008322	.2343116	-.000715	.0658410
#3	1.587374	34.29022	.0231762	-.000791	.2787578	.027378	.0664954

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7871495	2.117962	.0110487	.0027005	.2089546	2.234646	.0052150
Stddev	.1279413	.011718	.0009020	.0005997	.0010455	.015982	.0004000
%RSD	16.25375	.5532440	8.163923	22.20718	.5003269	.7151697	7.669761
#1	.9270905	2.105598	.0105021	.0026921	.2081319	2.217795	.0056671
#2	.7581835	2.128903	.0105541	.0021051	.2086009	2.236557	.0050709
#3	.6761746	2.119386	.0120898	.0033044	.2101310	2.249586	.0049070

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-07LX5 Acquired: 12/29/2024 8:46:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1312897	.1495821	.0167291
Stddev	.0015205	.0002314	.0032050
%RSD	1.158124	.1547277	19.15818
#1	.1296365	.1493307	.0133590
#2	.1326282	.1496292	.0197384
#3	.1316044	.1497863	.0170900

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2154.485	27287.63	2053.828	1379.864	1812.920
Stddev	5.264	213.53	4.736	10.651	4.364
%RSD	.2443103	.7825199	.2306086	.7719099	.2407214
#1	2158.650	27224.39	2048.716	1374.004	1817.911
#2	2156.235	27112.86	2058.066	1373.430	1811.028
#3	2148.569	27525.63	2054.702	1392.159	1809.822

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-09 Acquired: 12/29/2024 8:50:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1292216	.0652087	.1470862	.1880732	.1598007	46.35990	3.993694
Stddev	.0035603	.0058745	.0011030	.0045600	.0039734	.11169	.012215
%RSD	2.755166	9.008726	.7498820	2.424567	2.486488	.2409172	.3058662
#1	.1331572	.0682755	.1458345	.1828785	.1601589	46.34370	4.001669
#2	.1262249	.0584355	.1475088	.1914152	.1556603	46.47881	3.999782
#3	.1282826	.0689151	.1479155	.1899259	.1635829	46.25720	3.979631

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0969621	.0998337	706.5398	.4197237	1.044559	.5354163	125.2086
Stddev	.0004485	.0001169	1.0311	.0004343	.001178	.0086150	.0387
%RSD	.4625105	.1171311	.1459435	.1034733	.1127755	1.609027	.0309132
#1	.0965064	.0999635	707.1631	.4202251	1.043741	.5283389	125.2528
#2	.0974029	.0998008	705.3496	.4194797	1.044028	.5329008	125.1922
#3	.0969769	.0997367	707.1068	.4194663	1.045909	.5450090	125.1808

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.590792	135.4553	1.094390	.0636659	1.330060	.9920887	1.142870
Stddev	.009591	.3171	.001259	.0009155	.017452	.0106348	.003052
%RSD	.1116427	.2341293	.1150158	1.437931	1.312095	1.071957	.2670410
#1	8.601157	135.6609	1.095834	.0641561	1.315024	1.004316	1.142959
#2	8.588987	135.6150	1.093806	.0626097	1.325960	.986962	1.145877
#3	8.582232	135.0901	1.093529	.0642319	1.349197	.984988	1.139774

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.412021	8.383226	.0695938	.0044694	.8109458	10.11885	.0237826
Stddev	.075541	.008474	.0017908	.0005454	.0069532	.07315	.0021009
%RSD	1.712171	.1010833	2.573233	12.20185	.8574140	.7229014	8.833928
#1	4.324810	8.375919	.0694399	.0038907	.8052661	10.07543	.0251170
#2	4.457114	8.392515	.0714566	.0049738	.8187001	10.20330	.0213609
#3	4.454138	8.381243	.0678849	.0045437	.8088710	10.07781	.0248700

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-09 Acquired: 12/29/2024 8:50:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF8S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6353741	.6439343	.0789395
Stddev	.0055396	.0021301	.0032549
%RSD	.8718689	.3308014	4.123243
#1	.6401569	.6454785	.0756905
#2	.6366611	.6415041	.0789278
#3	.6293042	.6448202	.0822002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2257.062	28716.81	2199.458	1437.351	1653.897
Stddev	2.931	69.49	13.765	3.067	3.104
%RSD	.1298635	.2419664	.6258226	.2133821	.1876790
#1	2256.100	28788.56	2211.929	1439.895	1655.222
#2	2260.353	28712.03	2184.689	1438.212	1656.119
#3	2254.733	28649.83	2201.758	1433.945	1650.351

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-10 Acquired: 12/29/2024 8:54:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0398607	-.014061	.0798754	.0367363	.0035067	50.13526	.4553321
Stddev	.0016917	.001625	.0032394	.0020593	.0031298	.23106	.0029788
%RSD	4.243915	11.55709	4.055606	5.605626	89.25184	.4608788	.6542116
#1	.0383257	-.012967	.0779379	.0350300	.0070409	50.13593	.4567050
#2	.0395821	-.013287	.0780732	.0390237	.0010852	49.90386	.4519144
#3	.0416744	-.015928	.0836152	.0361551	.0023942	50.36598	.4573770

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079621	.0022503	424.6560	.0700712	.0624958	.1114654	128.7283
Stddev	.0001830	.0000618	2.6844	.0003446	.0008603	.0062009	.5871
%RSD	2.298345	2.745337	.6321293	.4917353	1.376653	5.563055	.4561130
#1	.0077869	.0023201	424.7580	.0704386	.0615142	.1062737	128.7429
#2	.0079475	.0022284	421.9221	.0700196	.0631191	.1183316	128.1340
#3	.0081520	.0022025	427.2879	.0697553	.0628541	.1097911	129.3080

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.077452	95.44932	.1438158	.0002097	.9093583	.1132318	.2639814
Stddev	.026680	.77395	.0009693	.0004763	.0148758	.0037680	.0013654
%RSD	.5254668	.8108465	.6739919	227.1357	1.635862	3.327664	.5172358
#1	5.078410	95.16421	.1428733	.0005554	.9259722	.1106375	.2625416
#2	5.050306	94.85837	.1437641	.0004073	.8972732	.1115040	.2652577
#3	5.103641	96.32538	.1448099	-.000334	.9048295	.1175538	.2641450

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.804761	5.496350	.0625017	.0030465	.4966630	10.16349	.0216781
Stddev	.092925	.015355	.0023863	.0005405	.0064416	.10894	.0013738
%RSD	2.442326	.2793605	3.817905	17.74261	1.296970	1.071885	6.337208
#1	3.900860	5.486474	.0606419	.0035685	.4892408	10.26235	.0214001
#2	3.715375	5.488537	.0651923	.0030820	.5007949	10.04669	.0231696
#3	3.798048	5.514040	.0616709	.0024892	.4999533	10.18143	.0204646

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-10 Acquired: 12/29/2024 8:54:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKF9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7920197	.4477689	.0879949
Stddev	.0086690	.0034923	.0022432
%RSD	1.094543	.7799400	2.549288
#1	.7928993	.4479010	.0891203
#2	.7829444	.4442123	.0894527
#3	.8002153	.4511932	.0854118

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2272.965	28940.65	2235.257	1453.688	1742.516
Stddev	5.657	101.97	10.520	6.945	3.512
%RSD	.2488896	.3523403	.4706312	.4777202	.2015279
#1	2268.489	29052.61	2225.444	1461.379	1744.622
#2	2279.324	28853.10	2246.364	1451.808	1744.465
#3	2271.083	28916.25	2233.962	1447.877	1738.463

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-11 Acquired: 12/29/2024 8:57:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1345144	-.057868	2.834340	.0897822	.0242262	66.43290	1.789125
Stddev	.0045136	.002327	.013484	.0007726	.0032694	.31943	.007120
%RSD	3.355467	4.021664	.4757242	.8605706	13.49516	.4808384	.3979861
#1	.1394035	-.060547	2.826946	.0888902	.0265561	66.35422	1.787006
#2	.1305062	-.056348	2.826171	.0902159	.0256336	66.78432	1.797064
#3	.1336334	-.056709	2.849903	.0902406	.0204888	66.16015	1.783305

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0118680	.0098701	53.01523	.1347700	.0426864	.4311525	168.2351
Stddev	.0002390	.0000817	.19711	.0007871	.0007139	.0067535	.8552
%RSD	2.014094	.8276364	.3718031	.5840282	1.672545	1.566390	.5083100
#1	.0121438	.0098248	52.87503	.1352950	.0432500	.4308252	167.6510
#2	.0117396	.0098212	53.24060	.1351499	.0418835	.4380637	169.2167
#3	.0117205	.0099644	52.93004	.1338650	.0429257	.4245686	167.8377

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.256806	22.30369	.1788605	.0021853	.5734303	.1965140	2.387564
Stddev	.041115	.10349	.0003995	.0009172	.0100497	.0067988	.010752
%RSD	.4441550	.4640018	.2233795	41.96993	1.752561	3.459677	.4503181
#1	9.250350	22.40097	.1792742	.0014404	.5845314	.1902829	2.387500
#2	9.300767	22.31514	.1784768	.0019058	.5649521	.1954940	2.398348
#3	9.219302	22.19495	.1788305	.0032097	.5708073	.2037651	2.376844

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.845787	8.271886	.0868626	.0076335	4.647960	11.56947	.1702780
Stddev	.189505	.024934	.0009320	.0003536	.009944	.11225	.0009732
%RSD	3.910717	.3014268	1.072960	4.631745	.2139477	.9702069	.5715558
#1	4.690636	8.255881	.0864548	.0072815	4.640091	11.53448	.1692910
#2	5.056997	8.259162	.0879290	.0079886	4.659137	11.69505	.1703060
#3	4.789728	8.300615	.0862041	.0076305	4.644653	11.47889	.1712369

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-11 Acquired: 12/29/2024 8:57:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8589591	.0039028	.0915258
Stddev	.0081063	.0003867	.0047630
%RSD	.9437308	9.907681	5.204027
#1	.8603082	.0040766	.0860291
#2	.8663061	.0041722	.0944358
#3	.8502629	.0034598	.0941126

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2449.221	31150.22	2327.943	1569.362	1874.432
Stddev	6.430	144.93	10.210	2.683	6.709
%RSD	.2625313	.4652762	.4385847	.1709395	.3578964
#1	2456.645	31094.43	2328.296	1568.609	1880.339
#2	2445.414	31314.76	2317.561	1572.341	1875.818
#3	2445.604	31041.48	2337.972	1567.137	1867.138

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-12 Acquired: 12/29/2024 9:01:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1564253	-.011874	1.659731	.0799849	.0128347	82.51359
Stddev	.0029525	.003627	.002020	.0040225	.0016856	.10277
%RSD	1.887459	30.54146	.1217260	5.029104	13.13326	.1245470
#1	.1584542	-.007915	1.657626	.0819949	.0144112	82.53300
#2	.1530382	-.012671	1.661655	.0826063	.0110579	82.40250
#3	.1577837	-.015036	1.659911	.0753535	.0130350	82.60527

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.635465	.0124961	.0091861	430.8871	.1011377	.0964685
Stddev	.005153	.0001476	.0002021	.7742	.0007701	.0004810
%RSD	.1955435	1.181073	2.200497	.1796865	.7614383	.4985727
#1	2.632178	.0123644	.0089709	430.0431	.1017575	.0959472
#2	2.632812	.0124683	.0093719	431.5644	.1013799	.0965634
#3	2.641404	.0126556	.0092155	431.0538	.1002756	.0968949

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2725799	181.7218	24.99855	58.06355	.1771315	.0036344
Stddev	.0043254	.3818	.02169	.39186	.0004080	.0006237
%RSD	1.586838	.2100876	.0867723	.6748781	.2303353	17.16188
#1	.2765888	182.0721	25.00394	58.50775	.1768697	.0036068
#2	.2679956	181.3149	24.97468	57.76682	.1769232	.0030249
#3	.2731554	181.7784	25.01705	57.91607	.1776016	.0042714

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.109514	.1646434	.8016149	7.429804	F 17.10098	.1504900
Stddev	.053568	.0065874	.0032323	.083267	.02991	.0026132
%RSD	.8767966	4.001032	.4032208	1.120719	.1749000	1.736450
#1	6.133726	.1701635	.8038474	7.333990	17.08566	.1512421
#2	6.048115	.1664155	.8030889	7.484648	17.08183	.1526447
#3	6.146703	.1573512	.7979084	7.470775	17.13545	.1475833

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-12 Acquired: 12/29/2024 9:01:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKG1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080183	8.132806	11.27062	.0462049	.4687296	.9573578
Stddev	.0003941	.022671	.02881	.0015492	.0041503	.0039890
%RSD	4.914457	.2787660	.2556511	3.352854	.8854269	.4166675
#1	.0084403	8.108451	11.30233	.0448160	.4732571	.9539957
#2	.0076599	8.136669	11.24603	.0459231	.4651054	.9617655
#3	.0079546	8.153297	11.26351	.0478757	.4678263	.9563123

Elem	Li6707
Units	ppm
Avg	.0566364
Stddev	.0007292
%RSD	1.287588
#1	.0560695
#2	.0574591
#3	.0563806

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2588.807	32620.01	2548.250	1645.172	1745.853
Stddev	7.053	71.84	13.790	2.901	3.111
%RSD	.2724320	.2202480	.5411576	.1763447	.1781659
#1	2586.481	32690.32	2541.409	1644.304	1744.469
#2	2583.211	32623.01	2564.123	1648.408	1743.675
#3	2596.729	32546.72	2539.218	1642.804	1749.416

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-13 Acquired: 12/29/2024 9:05:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0837015	-.028911	.4971667	.0565610	.0096347	72.38622
Stddev	.0050028	.003072	.0017670	.0042945	.0014256	.42547
%RSD	5.976982	10.62530	.3554138	7.592633	14.79631	.5877727
#1	.0884356	-.032063	.4953336	.0598726	.0111691	72.62063
#2	.0784674	-.028742	.4973073	.0581018	.0093839	72.64293
#3	.0842014	-.025927	.4988592	.0517087	.0083513	71.89511

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.018657	.0106892	.0053114	208.5193	.1189016	.0501962
Stddev	.006272	.0000540	.0001180	1.2835	.0015117	.0004807
%RSD	.6156757	.5051547	2.222039	.6155489	1.271401	.9575750
#1	1.023305	.0107507	.0054390	209.1763	.1205535	.0496445
#2	1.021142	.0106497	.0052061	209.3413	.1175871	.0505245
#3	1.011523	.0106672	.0052892	207.0402	.1185642	.0504197

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1377518	142.4597	6.598634	47.44462	.1427061	.0001182
Stddev	.0050579	.9886	.037609	.54505	.0004204	.0012020
%RSD	3.671776	.6939429	.5699551	1.148816	.2945674	1016.969
#1	.1435905	143.1587	6.616986	47.76128	.1431545	.0003655
#2	.1347093	142.8919	6.623545	47.75732	.1423210	.0011773
#3	.1349556	141.3287	6.555372	46.81525	.1426428	-.001188

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5790616	.1820146	.6565052	6.274315	F 13.00719	.0753018
Stddev	.0129118	.0138961	.0015878	.158883	.01033	.0036791
%RSD	2.229773	7.634616	.2418512	2.532268	.0793808	4.885759
#1	.5743381	.1977670	.6551034	6.169941	13.00234	.0770432
#2	.5691768	.1767841	.6561827	6.457166	13.00018	.0777867
#3	.5936700	.1714928	.6582294	6.195838	13.01904	.0710753

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-13 Acquired: 12/29/2024 9:05:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068180	2.340725	12.32978	.1018490	.7505999	.2551432
Stddev	.0000272	.003999	.03492	.0022020	.0045796	.0012082
%RSD	.3992000	.1708236	.2832182	2.162023	.6101237	.4735492
#1	.0068208	2.343378	12.35679	.0999827	.7548691	.2549994
#2	.0068437	2.342672	12.29035	.1012868	.7511677	.2564170
#3	.0067895	2.336126	12.34221	.1042777	.7457629	.2540134

Elem	Li6707
Units	ppm
Avg	.1293718
Stddev	.0038286
%RSD	2.959382
#1	.1249561
#2	.1313943
#3	.1317651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2432.831	30638.74	2373.375	1555.252	1802.393
Stddev	6.741	130.93	4.762	8.863	3.329
%RSD	.2770661	.4273492	.2006308	.5698477	.1846939
#1	2430.421	30615.84	2370.174	1560.180	1803.351
#2	2440.446	30520.76	2371.104	1545.021	1805.139
#3	2427.628	30779.61	2378.847	1560.556	1798.691

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-14 Acquired: 12/29/2024 9:09:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0595398	-.020961	.2906604	.0434685	.0063952	59.99499	.7882688
Stddev	.0009629	.001450	.0023256	.0044836	.0012538	.29888	.0027369
%RSD	1.617163	6.916210	.8001256	10.31455	19.60558	.4981753	.3472002
#1	.0597819	-.019462	.2926009	.0469007	.0056387	60.29225	.7909953
#2	.0603585	-.022356	.2880825	.0451092	.0057044	59.99821	.7882895
#3	.0584790	-.021064	.2912976	.0383957	.0078424	59.69452	.7855217

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093862	.0040543	458.8850	.0938615	.0753089	.1663123	147.3956
Stddev	.0002546	.0000229	2.0194	.0007409	.0004194	.0047096	.4740
%RSD	2.712617	.5646266	.4400714	.7893754	.5569320	2.831793	.3215908
#1	.0095405	.0040326	461.0994	.0940277	.0748916	.1716092	147.8070
#2	.0095258	.0040782	458.4104	.0930516	.0757304	.1647305	147.5027
#3	.0090923	.0040520	457.1451	.0945052	.0753047	.1625972	146.8772

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.787630	107.8468	.1741432	-.000574	.9987198	.1668449	.5079608
Stddev	.029759	.5307	.0008479	.001185	.0202491	.0051093	.0024378
%RSD	.3821271	.4920580	.4868935	206.5954	2.027508	3.062300	.4799206
#1	7.817665	108.3703	.1749355	-.001511	.9922336	.1727001	.5097048
#2	7.787070	107.8611	.1742452	-.000968	1.021417	.1645436	.5051752
#3	7.758155	107.3092	.1732489	.000758	.982509	.1632910	.5090024

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.332798	8.241890	.0763181	.0065148	1.122607	11.19476	.0339201
Stddev	.010040	.011587	.0024122	.0004408	.008468	.09131	.0011263
%RSD	.1882596	.1405901	3.160735	6.766780	.7543061	.8156935	3.320507
#1	5.332273	8.232177	.0740735	.0063230	1.112834	11.29525	.0326211
#2	5.323031	8.254716	.0760121	.0070191	1.127219	11.17219	.0346243
#3	5.343089	8.238778	.0788687	.0062024	1.127767	11.11685	.0345149

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-14 Acquired: 12/29/2024 9:09:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8664480	.4746519	.1149428
Stddev	.0036503	.0035346	.0019507
%RSD	.4212950	.7446660	1.697134
#1	.8703711	.4786665	.1166120
#2	.8631517	.4732814	.1154181
#3	.8658212	.4720079	.1127984

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2300.636	29031.63	2259.776	1460.934	1705.572
Stddev	7.969	83.86	14.092	3.928	5.738
%RSD	.3463638	.2888481	.6236085	.2688367	.3364372
#1	2305.882	29128.45	2244.070	1459.783	1709.877
#2	2304.559	28984.63	2263.945	1465.308	1707.781
#3	2291.467	28981.82	2271.314	1457.710	1699.057

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-15 Acquired: 12/29/2024 9:13:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0401388	-.012970	.1735171	.0303621	-.000708	49.55754	.5005643
Stddev	.0013860	.006919	.0025438	.0051507	.003210	.16476	.0017662
%RSD	3.453061	53.35063	1.465991	16.96428	453.1074	.3324615	.3528371
#1	.0408247	-.020867	.1756735	.0289877	.002850	49.74460	.5021326
#2	.0385436	-.010072	.1707118	.0360606	-.003385	49.43399	.4986511
#3	.0410481	-.007970	.1741661	.0260381	-.001590	49.49402	.5009093

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078598	.0024260	484.4675	.0761792	.0563004	.1122573	121.2544
Stddev	.0000888	.0000342	2.1192	.0007409	.0003291	.0073623	.5640
%RSD	1.129679	1.411813	.4374244	.9726263	.5845513	6.558423	.4651002
#1	.0079609	.0024652	486.8773	.0754759	.0561758	.1194419	121.8986
#2	.0077944	.0024016	482.8946	.0761090	.0566736	.1126006	120.8501
#3	.0078241	.0024113	483.6306	.0769528	.0560517	.1047293	121.0144

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.484146	79.97138	.1258297	-.001063	.8496771	.1080504	.3838686
Stddev	.008594	.41480	.0004901	.000418	.0308011	.0016602	.0036997
%RSD	.2466624	.5186918	.3894669	39.29280	3.625038	1.536457	.9638074
#1	3.493195	80.35084	.1262531	-.001512	.8378086	.1068516	.3827715
#2	3.483147	80.03479	.1252929	-.000685	.8846469	.1073543	.3808414
#3	3.476094	79.52853	.1259431	-.000993	.8265758	.1099453	.3879928

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.100847	6.893580	.0637882	.0034294	1.075790	10.15184	.0236377
Stddev	.198079	.007855	.0018500	.0004281	.004231	.10599	.0002766
%RSD	4.830187	.1139538	2.900184	12.48261	.3933336	1.044092	1.170185
#1	4.328111	6.885633	.0659141	.0030986	1.079955	10.23407	.0239051
#2	3.964894	6.893766	.0625445	.0039129	1.071495	10.18924	.0233527
#3	4.009535	6.901341	.0629059	.0032767	1.075919	10.03222	.0236553

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-15 Acquired: 12/29/2024 9:13:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7503117	.5856585	.0963507
Stddev	.0032357	.0037323	.0016465
%RSD	.4312447	.6372788	1.708829
#1	.7466468	.5899247	.0944538
#2	.7515147	.5829966	.0974104
#3	.7527736	.5840541	.0971877

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2280.624	28813.79	2237.873	1452.857	1738.159
Stddev	4.073	197.04	20.499	18.732	3.223
%RSD	.1785765	.6838457	.9159818	1.289347	.1854282
#1	2284.732	28750.54	2214.294	1449.195	1741.767
#2	2280.552	29034.69	2247.872	1473.150	1737.143
#3	2276.587	28656.14	2251.453	1436.226	1735.566

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-16 Acquired: 12/29/2024 9:17:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0725498	-.043884	1.094038	.0650756	.0169612	62.39982
Stddev	.0080151	.002635	.001087	.0034228	.0017566	.96677
%RSD	11.04769	6.004499	.0993332	5.259675	10.35674	1.549323
#1	.0775768	-.044407	1.093058	.0615728	.0149328	61.80216
#2	.0767660	-.046218	1.093848	.0652418	.0179858	61.88210
#3	.0633067	-.041026	1.095207	.0684123	.0179649	63.51520

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.041762	.0101385	.0054145	64.59509	.1230567	.0363305
Stddev	.015651	.0003416	.0000698	.88571	.0015097	.0009035
%RSD	1.502339	3.369060	1.288549	1.371178	1.226851	2.486831
#1	1.032227	.0099112	.0053535	63.93621	.1245183	.0373682
#2	1.033235	.0099729	.0054905	64.24710	.1231486	.0359047
#3	1.059825	.0105313	.0053994	65.60195	.1215031	.0357186

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2329752	135.4022	4.726718	25.33919	.1559264	-.000367
Stddev	.0103701	1.8190	.065667	.40437	.0004287	.000646
%RSD	4.451139	1.343375	1.389274	1.595836	.2749297	176.0396
#1	.2274487	134.1105	4.674437	24.93262	.1557619	-.001099
#2	.2265390	134.6138	4.705296	25.34362	.1556044	.000124
#3	.2449380	137.4823	4.800421	25.74133	.1564130	-.000126

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4848273	.1516342	1.277634	7.466725	F 11.94372	.0819034
Stddev	.0193400	.0056472	.011665	.154437	.02072	.0018632
%RSD	3.989051	3.724250	.9129811	2.068330	.1734476	2.274879
#1	.4899697	.1494277	1.291085	7.311911	11.93247	.0823173
#2	.4634358	.1474233	1.271518	7.467482	11.93107	.0835248
#3	.5010764	.1580516	1.270300	7.620781	11.96763	.0798680

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-16 Acquired: 12/29/2024 9:17:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKD9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058881	3.296769	11.14949	.0672628	.7742164	.0345068
Stddev	.0003151	.011811	.15705	.0020957	.0114894	.0013540
%RSD	5.350749	.3582471	1.408594	3.115676	1.483999	3.923762
#1	.0055323	3.285324	11.04259	.0648449	.7668746	.0331367
#2	.0061318	3.308914	11.07608	.0685577	.7683177	.0345396
#3	.0060001	3.296069	11.32980	.0683857	.7874570	.0358440

Elem	Li6707
Units	ppm
Avg	.0976861
Stddev	.0042584
%RSD	4.359309
#1	.0932896
#2	.0979771
#3	.1017915

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2421.906	30242.32	2334.594	1537.770	1886.676
Stddev	8.076	90.42	31.210	7.204	5.812
%RSD	.3334639	.2989960	1.336869	.4684723	.3080440
#1	2412.616	30164.26	2363.159	1531.363	1881.088
#2	2427.254	30221.30	2339.341	1536.380	1892.689
#3	2425.848	30341.40	2301.282	1545.568	1886.251

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV038 Acquired: 12/29/2024 9:21:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV038 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.197273	4.863711	25.08263	5.165920	5.064732	415.2545	10.32467
Stddev	.010102	.007733	.02068	.010115	.004783	1.6654	.03817
%RSD	.1943683	.1590037	.0824521	.1957940	.0944321	.4010657	.3697196
#1	5.188197	4.868789	25.10620	5.166482	5.065256	413.3392	10.28060
#2	5.195466	4.867533	25.06752	5.175741	5.069231	416.3618	10.34637
#3	5.208157	4.854810	25.07417	5.155535	5.059709	416.0626	10.34705

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5238895	2.530988	411.5235	15.75652	2.442253	15.08171	414.2735
Stddev	.0013659	.002413	1.3947	.01611	.004040	.02902	2.1175
%RSD	.2607307	.0953249	.3389006	.1022358	.1654224	.1924059	.5111374
#1	.5248218	2.533027	409.9224	15.74010	2.446884	15.05159	411.8286
#2	.5223216	2.528325	412.1742	15.75716	2.439453	15.08404	415.5253
#3	.5245251	2.531614	412.4739	15.77229	2.440421	15.10949	415.4665

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.91130	408.4508	2.545134	1.300856	421.5028	2.507632	15.29885
Stddev	.07327	1.8048	.004151	.003655	1.1567	.014682	.02663
%RSD	.4913931	.4418548	.1631135	.2809544	.2744123	.5854885	.1740351
#1	14.82679	406.6002	2.549535	1.296887	420.9391	2.491264	15.27189
#2	14.95704	410.2059	2.544580	1.304083	420.7361	2.511996	15.32513
#3	14.95008	408.5464	2.541287	1.301599	422.8333	2.519638	15.29952

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	154.5323	5.088915	5.112882	5.062233	5.168297	4.984465	5.106403
Stddev	.5836	.010335	.014107	.006836	.007691	.013175	.000884
%RSD	.3776640	.2030817	.2759091	.1350480	.1488120	.2643206	.0173115
#1	153.8690	5.092204	5.111079	5.069138	5.175129	4.997474	5.106881
#2	154.9668	5.097204	5.127804	5.062094	5.169794	4.984790	5.106946
#3	154.7612	5.077336	5.099764	5.055467	5.159967	4.971130	5.105383

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV038 Acquired: 12/29/2024 9:21:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV038 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.040636	4.842643	5.223560
Stddev	.029157	.014095	.017601
%RSD	.5784301	.2910507	.3369617
#1	5.007058	4.826619	5.205767
#2	5.059544	4.848191	5.223950
#3	5.055305	4.853119	5.240963

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1826.438	23553.58	1907.226	1141.443	1547.832
Stddev	2.623	28.04	7.926	3.326	1.473
%RSD	.1436312	.1190432	.4155813	.2913804	.0951471
#1	1824.168	23532.49	1898.084	1141.053	1546.132
#2	1825.835	23585.40	1911.414	1138.330	1548.675
#3	1829.310	23542.84	1912.179	1144.947	1548.689

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB038 Acquired: 12/29/2024 9:24:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB038 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002075	.0023083	.0002146	-.001584	-.001733	-.007862
Stddev	.002193	.0024703	.0015798	.003285	.004205	.018253
%RSD	105.7046	107.0151	736.3488	207.4096	242.5509	232.1837
#1	.000246	.0042540	.0019571	-.003359	-.000852	-.017827
#2	-.002358	.0031419	-.001124	-.003599	.001960	.013205
#3	-.004112	-.000471	-.000189	.002207	-.006309	-.018963

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001031	.0000325	.0000030	.0115542	.0001519	.0006208
Stddev	.001261	.0001170	.0000470	.0326807	.0002169	.0002755
%RSD	122.2986	359.5134	1574.684	282.8463	142.7691	44.38236
#1	-.002445	.0001352	-.000020	-.000222	-.000097	.0008465
#2	-.000628	-.000095	.000057	-.013606	.000297	.0003138
#3	-.000021	.000057	-.000029	.048491	.000256	.0007020

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007898	.0196691	-.000335	-.039699	.0006646	-.000320
Stddev	.005901	.0344298	.001198	.064368	.0003955	.000762
%RSD	74.71422	175.0452	357.7008	162.1397	59.50395	238.1614
#1	-.007682	.0553204	-.001141	-.113998	.0006154	-.001103
#2	-.013903	.0170798	.001042	-.004247	.0010824	.000418
#3	-.002108	-.013393	-.000905	-.000851	.0002961	-.000274

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053329	-.015463	.0018140	.0985437	.0037841	.0104206
Stddev	.0326993	.005823	.0006880	.1490112	.0023970	.0022832
%RSD	613.1669	37.65721	37.92904	151.2133	63.34434	21.91010
#1	-.013243	-.012256	.0023987	-.068518	.0014006	.0114882
#2	.043089	-.011949	.0019875	.146408	.0037573	.0119743
#3	-.013847	-.022184	.0010558	.217741	.0061945	.0077992

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB038 Acquired: 12/29/2024 9:24:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB038 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000110	.0078613	.0007972	-.000651	.0063130	.0001100
Stddev	.000232	.0053847	.0010669	.000471	.0043470	.0001668
%RSD	210.4629	68.49691	133.8356	72.36834	68.85746	151.6605
#1	.000099	.0093361	-.000303	-.001167	.0076853	-.000051
#2	-.000360	.0018928	.001827	-.000246	.0014455	.000282
#3	-.000070	.0123549	.000867	-.000538	.0098083	.000100

Elem	Li6707
Units	ppm
Avg	F .0249573
Stddev	.0041886
%RSD	16.78319
#1	.0275405
#2	.0201245
#3	.0272069

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2052.724	25919.58	1962.559	1321.433	1856.062
Stddev	2.664	190.54	25.048	13.210	4.848
%RSD	.1298014	.7351079	1.276293	.9996491	.2611926
#1	2054.925	25931.34	1936.446	1324.033	1859.583
#2	2049.761	25723.44	1986.385	1307.117	1850.533
#3	2053.485	26103.97	1964.846	1333.150	1858.071

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-17 Acquired: 12/29/2024 9:29:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1765136	-.085005	1.194571	.1577786	.0410142	63.22138
Stddev	.0067188	.000510	.001478	.0068778	.0029328	.23469
%RSD	3.806378	.6004565	.1237115	4.359119	7.150720	.3712189
#1	.1805017	-.085594	1.196010	.1569619	.0381559	63.45064
#2	.1802827	-.084722	1.193057	.1513456	.0440162	63.23187
#3	.1687565	-.084699	1.194645	.1650282	.0408705	62.98162

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.045709	.0164769	.0122982	122.7653	.1281666	.0265267
Stddev	.028375	.0001205	.0000644	.5085	.0019969	.0007068
%RSD	.7013672	.7313808	.5237704	.4142110	1.558022	2.664657
#1	4.070262	.0164909	.0123689	123.0594	.1268750	.0257424
#2	4.052221	.0163501	.0122429	123.0585	.1304666	.0267235
#3	4.014644	.0165898	.0122828	122.1782	.1271582	.0271143

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3117960	283.1814	24.00766	59.16553	.1886037	.0025319
Stddev	.0041353	1.5347	.10569	.34617	.0007217	.0005178
%RSD	1.326280	.5419365	.4402364	.5850866	.3826735	20.45009
#1	.3084802	284.7338	24.11291	59.27131	.1889684	.0031101
#2	.3164296	283.1454	24.00853	59.44647	.1877724	.0023747
#3	.3104781	281.6651	23.90154	58.77881	.1890703	.0021110

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6426746	.2579838	1.352377	6.119802	F 12.73554	.1126859
Stddev	.0149228	.0072486	.005044	.123695	.02545	.0049953
%RSD	2.321985	2.809692	.3729428	2.021230	.1998187	4.432974
#1	.6435573	.2497061	1.352851	6.218662	12.73740	.1146164
#2	.6571364	.2631957	1.347114	6.159651	12.70922	.1164280
#3	.6273300	.2610495	1.357167	5.981094	12.76001	.1070135

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-17 Acquired: 12/29/2024 9:29:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173016	3.119695	12.07464	.3096604	.6561920	-.083189
Stddev	.0004366	.005185	.15305	.0015540	.0035726	.001071
%RSD	2.523403	.1662145	1.267553	.5018472	.5444470	1.287628
#1	.0168131	3.121404	12.17170	.3082197	.6569455	-.084417
#2	.0174381	3.113871	11.89820	.3094543	.6523028	-.082708
#3	.0176537	3.123810	12.15400	.3113072	.6593279	-.082443

Elem	Li6707
Units	ppm
Avg	.0922920
Stddev	.0040455
%RSD	4.383332
#1	.0960974
#2	.0927354
#3	.0880430

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2450.342	30788.15	2346.890	1563.280	1850.386
Stddev	3.147	12.79	25.800	1.863	1.056
%RSD	.1284385	.0415367	1.099334	.1191407	.0570842
#1	2453.836	30777.54	2330.102	1561.777	1849.702
#2	2447.728	30802.35	2376.598	1565.363	1851.602
#3	2449.463	30784.57	2333.971	1562.700	1849.853

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-18 Acquired: 12/29/2024 9:32:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0913650	-.055846	1.108576	.0798826	.0208985	73.01660
Stddev	.0052725	.004914	.003585	.0008672	.0062186	.28235
%RSD	5.770794	8.799449	.3233906	1.085610	29.75642	.3866955
#1	.0876087	-.050238	1.105306	.0806292	.0217127	72.71303
#2	.0890937	-.057896	1.108012	.0789314	.0143128	73.06540
#3	.0973924	-.059402	1.112409	.0800872	.0266699	73.27137

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.274816	.0112083	.0061248	57.65599	.1310920	.0382796
Stddev	.001614	.0001154	.0000997	.29328	.0007906	.0006210
%RSD	.1265981	1.029898	1.628231	.5086639	.6031011	1.622181
#1	1.272978	.0110864	.0062231	57.38992	.1308584	.0379424
#2	1.276004	.0112226	.0061276	57.60761	.1304444	.0389962
#3	1.275465	.0113159	.0060237	57.97045	.1319731	.0379001

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2188351	152.6956	6.302788	27.57690	.1729118	-.000583
Stddev	.0052407	.2072	.020508	.12949	.0010632	.000325
%RSD	2.394822	.1357097	.3253848	.4695535	.6148642	55.77482
#1	.2155068	152.5958	6.285727	27.47362	.1717494	-.000525
#2	.2248761	152.5571	6.297095	27.53490	.1731512	-.000291
#3	.2161225	152.9338	6.325541	27.72217	.1738349	-.000933

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9404348	.1843497	1.132870	7.637484	F 10.80925	.0814979
Stddev	.0051183	.0114511	.003773	.042818	.01526	.0022704
%RSD	.5442518	6.211621	.3330478	.5606272	.1411958	2.785778
#1	.9384550	.1743194	1.130690	7.590027	10.79563	.0826716
#2	.9462473	.1819034	1.130694	7.673222	10.80636	.0788810
#3	.9366021	.1968263	1.137227	7.649204	10.82574	.0829412

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-18 Acquired: 12/29/2024 9:32:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055824	2.673578	13.03197	.0666020	.8731665	.0283098
Stddev	.0000981	.006310	.05920	.0014710	.0041710	.0008287
%RSD	1.757352	.2360091	.4542953	2.208615	.4776850	2.927099
#1	.0055913	2.671835	13.08664	.0649064	.8694979	.0275614
#2	.0054802	2.668323	13.04018	.0673633	.8777032	.0281678
#3	.0056758	2.680576	12.96909	.0675364	.8722984	.0292003

Elem	Li6707
Units	ppm
Avg	.1126183
Stddev	.0036650
%RSD	3.254374
#1	.1084405
#2	.1152917
#3	.1141228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2471.986	31098.97	2356.397	1579.200	1886.833
Stddev	7.958	63.97	5.351	7.069	9.273
%RSD	.3219126	.2057030	.2270993	.4476149	.4914534
#1	2473.067	31167.51	2352.868	1585.141	1890.934
#2	2479.348	31040.84	2353.768	1581.076	1893.349
#3	2463.543	31088.57	2362.554	1571.382	1876.217

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-19 Acquired: 12/29/2024 9:36:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0755300	-.050969	.4133089	.0779238	.0194811	69.81946	.9816947
Stddev	.0062652	.001135	.0017327	.0004341	.0059488	.27928	.0027746
%RSD	8.294936	2.226449	.4192189	.5571215	30.53615	.4000045	.2826350
#1	.0819290	-.049788	.4114658	.0779408	.0263498	70.14106	.9848567
#2	.0694079	-.052051	.4135563	.0783492	.0161120	69.63799	.9805606
#3	.0752531	-.051068	.4149045	.0774814	.0159817	69.67933	.9796667

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0112948	.0041407	57.78398	.1044961	.0323312	.1036835	148.5449
Stddev	.0002127	.0001552	.19041	.0006085	.0004824	.0074745	.7147
%RSD	1.883288	3.748082	.3295179	.5822846	1.492186	7.208980	.4811330
#1	.0115344	.0041347	57.99211	.1042590	.0321712	.1102300	149.3289
#2	.0112220	.0039887	57.61855	.1051875	.0328733	.0955393	147.9297
#3	.0111281	.0042989	57.74127	.1040419	.0319491	.1052811	148.3762

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.652612	30.12035	.1348591	-.000935	.4942743	.1569216	.5362556
Stddev	.022112	.20879	.0016044	.000743	.0245596	.0062923	.0014642
%RSD	.4752582	.6931860	1.189664	79.51195	4.968823	4.009863	.2730363
#1	4.675236	30.34015	.1349228	-.000433	.4685548	.1550592	.5364438
#2	4.631051	29.92466	.1364307	-.001789	.4967875	.1517706	.5376166
#3	4.651549	30.09625	.1332238	-.000583	.5174808	.1639349	.5347064

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.282373	8.057798	.0747573	.0048975	2.084987	12.57545	.0344910
Stddev	.323726	.021446	.0021637	.0004645	.010804	.12396	.0017670
%RSD	9.862558	.2661536	2.894256	9.484122	.5181766	.9857603	5.123078
#1	2.950347	8.076446	.0753767	.0051781	2.082702	12.71831	.0326185
#2	3.299666	8.062585	.0765437	.0051530	2.075508	12.49628	.0361291
#3	3.597105	8.034363	.0723514	.0043613	2.096750	12.51176	.0347253

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-19 Acquired: 12/29/2024 9:36:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7314560	-.011623	.1077652
Stddev	.0023264	.000365	.0019711
%RSD	.3180568	3.137419	1.829040
#1	.7296437	-.011929	.1099722
#2	.7306449	-.011219	.1071435
#3	.7340795	-.011719	.1061800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2472.223	31213.21	2339.854	1581.190	1881.171
Stddev	.888	13.19	23.061	4.558	1.619
%RSD	.0359295	.0422587	.9855608	.2882668	.0860816
#1	2473.034	31212.20	2314.561	1576.656	1882.303
#2	2472.360	31226.88	2359.712	1581.143	1881.893
#3	2471.274	31200.56	2345.289	1585.772	1879.316

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-20 Acquired: 12/29/2024 9:40:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0577274	-.046286	.1817945	.0692162	.0177554	64.84016	.8802262
Stddev	.0037795	.000247	.0022268	.0038562	.0012675	.26684	.0029952
%RSD	6.547123	.5346465	1.224900	5.571297	7.138456	.4115306	.3402771
#1	.0607448	-.046197	.1834474	.0736512	.0186992	65.05629	.8835110
#2	.0534882	-.046566	.1792623	.0673428	.0182524	64.92228	.8795213
#3	.0589493	-.046095	.1826738	.0666545	.0163148	64.54192	.8776463

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101817	.0029302	107.2108	.0979964	.0514596	.1035847	157.2233
Stddev	.0000876	.0001547	.7517	.0008426	.0006095	.0060194	.6042
%RSD	.8600519	5.280480	.7011207	.8598090	1.184394	5.811128	.3843181
#1	.0101936	.0028135	107.7769	.0978670	.0517745	.1019647	157.8679
#2	.0102627	.0031057	107.4976	.0988962	.0507570	.1102484	157.1324
#3	.0100888	.0028714	106.3580	.0972260	.0518472	.0985410	156.6697

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.964113	47.88440	.1696886	-.000764	.7019132	.1540617	.3459976
Stddev	.030809	.12799	.0004148	.000852	.0191228	.0073762	.0008394
%RSD	.4423942	.2672960	.2444595	111.4353	2.724381	4.787822	.2426117
#1	6.976034	47.94798	.1693658	-.001181	.6941344	.1625571	.3451879
#2	6.987181	47.96816	.1701565	-.001327	.6879057	.1503419	.3468639
#3	6.929125	47.73706	.1695435	.000216	.7236995	.1492860	.3459410

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.593444	7.314372	.0671836	.0058313	.8307446	11.65500	.0225323
Stddev	.150341	.008374	.0026479	.0004604	.0039930	.05926	.0014154
%RSD	4.183751	.1144837	3.941297	7.895060	.4806540	.5084632	6.281499
#1	3.685094	7.324010	.0650542	.0053847	.8286614	11.71471	.0212694
#2	3.675300	7.310229	.0663481	.0063043	.8353484	11.65411	.0222652
#3	3.419937	7.308877	.0701485	.0058050	.8282239	11.59620	.0240621

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5036-20 Acquired: 12/29/2024 9:40:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8812662	.0097561	.0970181
Stddev	.0025157	.0006766	.0004439
%RSD	.2854622	6.935707	.4574982
#1	.8828603	.0102900	.0975304
#2	.8825722	.0099832	.0967748
#3	.8783661	.0089951	.0967492

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2475.099	31234.12	2326.358	1583.090	1849.171
Stddev	6.411	141.52	15.313	11.291	3.475
%RSD	.2590128	.4530959	.6582411	.7132032	.1879398
#1	2480.292	31310.39	2322.249	1590.236	1850.694
#2	2477.072	31070.82	2313.519	1570.074	1851.624
#3	2467.934	31321.14	2343.306	1588.961	1845.194

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-21 Acquired: 12/29/2024 9:44:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0576275	-.032940	.1441331	.0555801	.0091121	63.78506	.5682605
Stddev	.0026285	.004847	.0015810	.0013610	.0013047	.94136	.0067567
%RSD	4.561253	14.71443	1.096877	2.448677	14.31884	1.475830	1.189022
#1	.0602239	-.038516	.1423241	.0549423	.0092976	62.73962	.5606956
#2	.0576907	-.030568	.1448249	.0571429	.0103142	64.05000	.5703895
#3	.0549680	-.029736	.1452501	.0546552	.0077246	64.56556	.5736962

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097069	.0023257	200.8423	.0960034	.0567525	.1467214	147.2588
Stddev	.0000182	.0000473	2.9566	.0006172	.0010976	.0086713	2.4397
%RSD	.1877040	2.033949	1.472099	.6428854	1.933933	5.910079	1.656741
#1	.0096958	.0023713	197.5335	.0963973	.0578365	.1371070	144.5610
#2	.0097279	.0023288	201.7682	.0952921	.0556419	.1491071	147.9050
#3	.0096970	.0022769	203.2251	.0963208	.0567790	.1539502	149.3103

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.164803	71.28481	.1679803	-.001145	.7457984	.1521912	.3727065
Stddev	.048415	1.25169	.0009491	.001717	.0144429	.0021001	.0024664
%RSD	1.529810	1.755895	.5650044	149.9757	1.936574	1.379928	.6617552
#1	3.110668	69.91428	.1689000	-.003112	.7328306	.1508893	.3747130
#2	3.179783	71.57262	.1680365	.000053	.7432007	.1510702	.3699529
#3	3.203958	72.36752	.1670043	-.000376	.7613639	.1546139	.3734536

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.397651	7.552836	.0694530	.0031428	.6645409	11.19052	.0220022
Stddev	.114188	.010584	.0023858	.0005902	.0061231	.06109	.0018760
%RSD	3.360789	.1401291	3.435097	18.77915	.9214047	.5459249	8.526303
#1	3.435689	7.563475	.0668206	.0030246	.6617500	11.12241	.0235492
#2	3.269299	7.542308	.0714727	.0026206	.6715622	11.24047	.0225417
#3	3.487964	7.552726	.0700657	.0037831	.6603104	11.20869	.0199155

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-21 Acquired: 12/29/2024 9:44:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKE4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8849170	.1052882	.1086022
Stddev	.0115840	.0008509	.0033272
%RSD	1.309049	.8082047	3.063613
#1	.8727126	.1043208	.1064466
#2	.8862783	.1059210	.1124340
#3	.8957603	.1056227	.1069258

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2419.397	30567.11	2387.376	1546.169	1799.976
Stddev	7.448	129.47	21.229	7.050	3.052
%RSD	.3078250	.4235653	.8891994	.4559482	.1695773
#1	2426.835	30709.89	2411.630	1548.000	1802.558
#2	2419.417	30534.08	2372.176	1552.123	1800.762
#3	2411.940	30457.35	2378.321	1538.385	1796.608

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-22 Acquired: 12/29/2024 9:48:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK51 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1200459	-.008171	3.251104	.0539464	.0035097	54.00622	.9748201
Stddev	.0067169	.003982	.051965	.0061851	.0037939	.05998	.0031913
%RSD	5.595280	48.73280	1.598371	11.46529	108.0972	.1110612	.3273739
#1	.1276254	-.010458	3.191292	.0610825	.0030283	54.02713	.9778958
#2	.1148313	-.010481	3.276864	.0506291	-.000020	54.05294	.9750399
#3	.1176809	-.003573	3.285157	.0501275	.007521	53.93858	.9715245

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108373	.0125240	546.2091	.1220364	.0724624	.2415928	147.6248
Stddev	.0001679	.0002329	.9873	.0009985	.0016436	.0007696	.2902
%RSD	1.549672	1.859678	.1807581	.8182339	2.268210	.3185573	.1966126
#1	.0106592	.0122684	546.4196	.1212278	.0705715	.2407158	147.6182
#2	.0109928	.0125793	547.0742	.1217289	.0732668	.2421555	147.9183
#3	.0108599	.0127243	545.1335	.1231525	.0735488	.2419072	147.3379

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.64420	297.2313	.2028836	.0022464	3.542175	.1474343	2.095713
Stddev	.02252	.7245	.0040325	.0006492	.035783	.0112938	.016319
%RSD	.1934011	.2437437	1.987575	28.90006	1.010196	7.660260	.7786946
#1	11.63997	297.4047	.1982389	.0016957	3.502097	.1603565	2.090276
#2	11.66854	297.8533	.2049208	.0029622	3.553511	.1424946	2.082805
#3	11.62411	296.4358	.2054910	.0020812	3.570917	.1394519	2.114056

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.422497	6.711499	.1104246	.0109330	23.88090	10.49437	.0587853
Stddev	.094981	.105383	.0015766	.0006153	.39662	.04139	.0030865
%RSD	1.279642	1.570179	1.427754	5.627832	1.660827	.3943835	5.250459
#1	7.337260	6.590093	.1121991	.0116363	23.42499	10.45284	.0577003
#2	7.405346	6.765066	.1091852	.0104941	24.07118	10.49467	.0622677
#3	7.524885	6.779338	.1098895	.0106686	24.14652	10.53561	.0563877

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5036-22 Acquired: 12/29/2024 9:48:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK51 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6975757	.6509103	.0853840
Stddev	.0013468	.0006681	.0005805
%RSD	.1930691	.1026448	.6799181
#1	.6973399	.6514016	.0848121
#2	.6963623	.6511799	.0859728
#3	.6990248	.6501495	.0853671

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2284.973	29078.94	2230.294	1462.064	1661.486
Stddev	26.213	80.25	8.738	10.625	24.959
%RSD	1.147187	.2759647	.3917647	.7267025	1.502235
#1	2315.095	29012.29	2235.672	1457.810	1689.842
#2	2272.486	29168.01	2234.997	1474.157	1651.770
#3	2267.338	29056.51	2220.212	1454.226	1642.845

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-01 Acquired: 12/29/2024 9:52:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK83 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1233367	-.051457	1.146149	.0730282	.0158817	76.46264	.7542926
Stddev	.0034284	.004756	.001498	.0032947	.0043399	.25504	.0018095
%RSD	2.779698	9.241791	.1306576	4.511477	27.32652	.3335487	.2398967
#1	.1218364	-.053176	1.146657	.0740449	.0201487	76.32939	.7539465
#2	.1272595	-.055114	1.144464	.0693450	.0160241	76.75671	.7562502
#3	.1209143	-.046081	1.147327	.0756947	.0114723	76.30183	.7526812

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111810	.0055486	76.06982	.1406871	.0424467	.2001638	157.8055
Stddev	.0000279	.0000750	.16122	.0005390	.0010387	.0023847	.8028
%RSD	.2500127	1.352263	.2119360	.3831064	2.446999	1.191363	.5086990
#1	.0111804	.0054693	75.91784	.1412014	.0416922	.2014947	157.1394
#2	.0111534	.0055581	76.23891	.1401265	.0420165	.1974107	158.6968
#3	.0112093	.0056185	76.05271	.1407334	.0436313	.2015860	157.5804

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.142109	34.61391	.1588456	.0012221	.4872975	.1800297	1.300224
Stddev	.019547	.07840	.0006249	.0010017	.0125054	.0020224	.006990
%RSD	.3182460	.2265064	.3933795	81.96430	2.566269	1.123345	.5376320
#1	6.146017	34.70425	.1592042	.0000895	.4742875	.1786401	1.304167
#2	6.159407	34.57393	.1581241	.0015852	.4992283	.1790992	1.304351
#3	6.120903	34.56357	.1592086	.0019918	.4883766	.1823498	1.292152

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.512292	8.476119	.0789746	.0064680	3.937920	12.22092	.0427952
Stddev	.043379	.007891	.0036082	.0004054	.004803	.06520	.0009499
%RSD	.5774426	.0930924	4.568858	6.267097	.1219690	.5335298	2.219586
#1	7.560614	8.467036	.0753359	.0069358	3.943011	12.29414	.0424971
#2	7.476706	8.480046	.0825516	.0062469	3.933469	12.19948	.0438583
#3	7.499557	8.481276	.0790362	.0062213	3.937280	12.16914	.0420301

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-01 Acquired: 12/29/2024 9:52:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK83 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9018019	-.002044	.0745464
Stddev	.0038705	.000237	.0038011
%RSD	.4291940	11.58329	5.099005
#1	.8973507	-.001831	.0710978
#2	.9036800	-.002299	.0786221
#3	.9043749	-.002003	.0739195

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2307.818	28988.65	2213.220	1473.527	1861.112
Stddev	6.071	280.14	8.142	13.850	3.348
%RSD	.2630629	.9663784	.3678962	.9399549	.1799191
#1	2301.079	29256.76	2215.217	1483.881	1857.581
#2	2309.514	28697.86	2204.266	1457.794	1861.512
#3	2312.860	29011.34	2220.179	1478.905	1864.242

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-02 Acquired: 12/29/2024 9:56:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1592967	-.078212	.9144567	.1063208	.0307078	101.0851	.8202597
Stddev	.0059358	.001096	.0033477	.0077841	.0023368	.3013	.0025798
%RSD	3.726278	1.400772	.3660823	7.321367	7.609897	.2980839	.3145036
#1	.1598069	-.079245	.9106134	.1080239	.0324031	100.7406	.8177097
#2	.1531222	-.077063	.9167372	.1131124	.0316781	101.2157	.8228682
#3	.1649610	-.078327	.9160194	.0978262	.0280421	101.2992	.8202012

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145708	.0063779	85.99043	.1648680	.0446682	.1925151	206.8197
Stddev	.0002737	.0001278	.23411	.0011065	.0009777	.0090955	.6689
%RSD	1.878521	2.004282	.2722483	.6711467	2.188864	4.724570	.3234301
#1	.0148869	.0062781	85.87050	.1659047	.0436160	.1907818	206.0485
#2	.0144146	.0065220	86.26020	.1637029	.0455487	.2023525	207.2430
#3	.0144110	.0063336	85.84058	.1649965	.0448399	.1844110	207.1675

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.920573	53.77694	.1920430	.0006944	.8322503	.2342220	1.172580
Stddev	.024980	.44861	.0006090	.0012539	.0392834	.0045365	.002506
%RSD	.3609507	.8342034	.3171043	180.5842	4.720149	1.936847	.2136864
#1	6.893597	53.26015	.1926247	.0017610	.8775025	.2394094	1.171275
#2	6.925216	54.06616	.1920944	.0010091	.8123390	.2309972	1.175469
#3	6.942905	54.00450	.1914100	-.000687	.8069095	.2322594	1.170996

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.901476	8.031408	.0920075	.0068241	3.761330	12.46504	.0751780
Stddev	.054514	.019663	.0051851	.0005731	.013988	.17790	.0034477
%RSD	.6124127	.2448210	5.635472	8.398635	.3718971	1.427200	4.586113
#1	8.956749	8.008726	.0860276	.0070304	3.745192	12.64725	.0758777
#2	8.899926	8.043606	.0952540	.0072656	3.768807	12.45608	.0714341
#3	8.847754	8.041894	.0947407	.0061764	3.769991	12.29178	.0782223

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-02 Acquired: 12/29/2024 9:56:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.418072	-.030181	.1103696
Stddev	.007677	.000903	.0007815
%RSD	.5413628	2.991221	.7080999
#1	1.409442	-.029881	.1110002
#2	1.420634	-.029467	.1094953
#3	1.424140	-.031196	.1106133

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2292.472	28937.58	2204.909	1462.397	1804.281
Stddev	2.137	29.65	21.640	2.568	2.708
%RSD	.0932316	.1024588	.9814278	.1756194	.1500864
#1	2290.014	28912.53	2186.683	1463.887	1806.913
#2	2293.500	28929.89	2199.219	1463.872	1801.503
#3	2293.900	28970.31	2228.825	1459.431	1804.425

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-03 Acquired: 12/29/2024 9:59:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1528691	-.074626	.8968843	.1053420	.0266902	100.3369	.8092587
Stddev	.0036640	.005650	.0022062	.0014005	.0029762	.4854	.0058541
%RSD	2.396806	7.571710	.2459856	1.329472	11.15097	.4837353	.7233865
#1	.1552483	-.068404	.8977424	.1039130	.0241015	100.2960	.8084751
#2	.1486498	-.079439	.8943780	.1054009	.0260269	100.8415	.8154651
#3	.1547093	-.076034	.8985326	.1067121	.0299421	99.8734	.8038359

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142959	.0061668	85.52241	.1629260	.0437526	.1802285	204.7622
Stddev	.0000984	.0001752	.49262	.0044247	.0006881	.0069638	1.3933
%RSD	.6880775	2.841539	.5760140	2.715774	1.572724	3.863874	.6804644
#1	.0141849	.0059649	85.20362	.1641975	.0439319	.1744805	203.9779
#2	.0143722	.0062573	86.08979	.1580047	.0429925	.1879723	206.3709
#3	.0143306	.0062784	85.27381	.1665757	.0443332	.1782326	203.9379

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.843647	53.42187	.1885738	.0015195	.8082200	.2345775	1.149710
Stddev	.033231	.31202	.0001931	.0015013	.0499854	.0085885	.034030
%RSD	.4855778	.5840765	.1023997	98.80459	6.184625	3.661267	2.959894
#1	6.842071	53.33846	.1887737	.0013065	.7510584	.2444898	1.157931
#2	6.877638	53.76712	.1883883	.0031158	.8298760	.2298904	1.112322
#3	6.811231	53.16002	.1885593	.0001360	.8437256	.2293523	1.178876

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.786168	7.881636	.0862209	.0063783	3.676302	12.36529	.0739754
Stddev	.130500	.022851	.0024800	.0007538	.017914	.08337	.0003444
%RSD	1.485285	.2899296	2.876339	11.81871	.4872856	.6742490	.4655470
#1	8.862892	7.907940	.0844702	.0072348	3.696061	12.32124	.0736910
#2	8.860123	7.866681	.0890588	.0058157	3.661122	12.31318	.0743583
#3	8.635488	7.870286	.0851337	.0060844	3.671723	12.46144	.0738768

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-03 Acquired: 12/29/2024 9:59:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.399181	-.030202	.1087144
Stddev	.007982	.001145	.0039539
%RSD	.5704689	3.791150	3.636912
#1	1.393800	-.029898	.1116232
#2	1.408352	-.031469	.1103073
#3	1.395391	-.029240	.1042125

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2295.436	29069.81	2194.208	1465.836	1811.816
Stddev	10.323	551.62	7.963	24.157	9.736
%RSD	.4497219	1.897587	.3629030	1.648003	.5373468
#1	2285.327	28946.93	2202.501	1457.517	1803.142
#2	2305.960	29672.52	2186.623	1493.053	1822.347
#3	2295.021	28589.99	2193.499	1446.937	1809.961

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-02LX5 Acquired: 12/29/2024 10:03:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0364706	-.013968	.1789533	.0159983	.0034825	21.88801	.1747742
Stddev	.0036664	.002382	.0008242	.0034888	.0010565	.45968	.0041469
%RSD	10.05307	17.05351	.4605604	21.80743	30.33778	2.100123	2.372735
#1	.0406972	-.016245	.1781473	.0199499	.0045033	21.43340	.1713642
#2	.0345686	-.011493	.1797946	.0133440	.0023935	21.87805	.1735679
#3	.0341460	-.014167	.1789181	.0147010	.0035508	22.35259	.1793906

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032493	.0010956	18.77134	.0347320	.0147852	.0304653	45.02127
Stddev	.0001262	.0000406	.34593	.0009311	.0005397	.0081590	.99946
%RSD	3.883439	3.707191	1.842888	2.680662	3.650110	26.78133	2.219962
#1	.0031556	.0011114	18.47375	.0356173	.0152166	.0211893	44.23256
#2	.0031995	.0010495	18.68938	.0337611	.0149590	.0336766	44.68599
#3	.0033928	.0011260	19.15089	.0348176	.0141801	.0365301	46.14526

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.519333	11.68708	.0377306	-.000181	.2155853	.0420927	.2579237
Stddev	.029006	.25447	.0003255	.000462	.0399405	.0013186	.0029035
%RSD	1.909114	2.177342	.8626710	255.2551	18.52655	3.132632	1.125717
#1	1.494115	11.44940	.0374708	-.000514	.2473845	.0426632	.2575279
#2	1.512854	11.65629	.0376254	-.000375	.1707573	.0405849	.2552384
#3	1.551031	11.95554	.0380957	.000346	.2286142	.0430300	.2610048

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.755041	1.599118	.0179480	.0016277	.7661763	2.815078	.0136849
Stddev	.164526	.005402	.0026788	.0004864	.0120878	.055325	.0015551
%RSD	9.374481	.3378305	14.92550	29.88436	1.577682	1.965317	11.36345
#1	1.621623	1.593537	.0199092	.0020909	.7547643	2.768661	.0121469
#2	1.704622	1.604322	.0148958	.0011210	.7649223	2.800273	.0136512
#3	1.938876	1.599497	.0190390	.0016713	.7788422	2.876299	.0152565

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-02LX5 Acquired: 12/29/2024 10:03:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3084785	-.007133	.0253206
Stddev	.0036813	.000297	.0033236
%RSD	1.193389	4.169129	13.12623
#1	.3061475	-.007383	.0246466
#2	.3065656	-.006804	.0223856
#3	.3127225	-.007211	.0289295

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2122.172	27379.03	1982.407	1386.617	1866.089
Stddev	3.273	306.19	39.604	15.463	5.386
%RSD	.1542180	1.118337	1.997793	1.115127	.2886191
#1	2125.951	27278.17	2022.700	1387.315	1872.269
#2	2120.315	27722.93	1980.992	1401.718	1862.401
#3	2120.251	27135.99	1943.529	1370.817	1863.596

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-04 Acquired: 12/29/2024 10:07:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2411355	-.000950	.9324427	.2709352	.1992921	102.9707	4.444406
Stddev	.0041432	.002744	.0022039	.0032154	.0064199	.5067	.025728
%RSD	1.718219	288.7658	.2363620	1.186768	3.221338	.4920375	.5788958
#1	.2408785	-.000406	.9347533	.2676633	.1930674	102.3921	4.415072
#2	.2371268	.001481	.9303637	.2710514	.1989179	103.1852	4.455000
#3	.2454013	-.003925	.9322112	.2740909	.2058908	103.3349	4.463146

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1041753	.1033845	84.91127	.5437988	1.044252	.6026124	204.3371
Stddev	.0009683	.0001058	.33767	.0011995	.001205	.0048765	1.0105
%RSD	.9294868	.1023100	.3976767	.2205728	.1153921	.8092215	.4945189
#1	.1037557	.1033681	84.58900	.5430728	1.044936	.5977372	203.3500
#2	.1034876	.1034975	84.88232	.5431403	1.044960	.6074901	204.2919
#3	.1052826	.1032879	85.26248	.5451833	1.042861	.6026099	205.3695

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.672128	52.81183	1.189908	.0661854	.8516568	1.143360	2.038015
Stddev	.026616	.31789	.001865	.0011044	.0110466	.011769	.001711
%RSD	.3469174	.6019231	.1567419	1.668601	1.297073	1.029359	.0839546
#1	7.643429	52.46654	1.191141	.0662025	.8435369	1.132625	2.037615
#2	7.676954	52.87662	1.190821	.0650725	.8471975	1.155944	2.039891
#3	7.696001	53.09233	1.187763	.0672811	.8642361	1.141512	2.036540

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.725520	7.883308	.0895922	.0059319	3.705864	12.15045	.0719382
Stddev	.295904	.019624	.0013695	.0003450	.012933	.13599	.0008548
%RSD	3.391245	.2489331	1.528607	5.815460	.3489946	1.119225	1.188258
#1	8.733481	7.904808	.0907601	.0063259	3.709601	12.02810	.0710922
#2	8.425715	7.878756	.0880849	.0057858	3.716518	12.12639	.0719208
#3	9.017362	7.866360	.0899315	.0056840	3.691474	12.29687	.0728016

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-04 Acquired: 12/29/2024 10:07:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK84S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.382336	-.030634	.1102531
Stddev	.008892	.000403	.0041335
%RSD	.6432376	1.315746	3.749103
#1	1.372268	-.030235	.1058288
#2	1.385625	-.031041	.1109146
#3	1.389115	-.030626	.1140160

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2295.340	29070.79	2231.604	1468.990	1808.376
Stddev	8.175	230.79	11.173	15.903	5.619
%RSD	.3561572	.7938886	.5006830	1.082604	.3107251
#1	2303.397	28954.80	2244.124	1466.332	1811.779
#2	2287.052	28921.01	2222.647	1454.584	1801.890
#3	2295.571	29336.57	2228.040	1486.056	1811.458

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-05 Acquired: 12/29/2024 10:11:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK85 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1249998	-.061681	1.555606	.0883907	.0242262	92.32897	.9015656
Stddev	.0024847	.001936	.008561	.0058444	.0013031	.16305	.0020536
%RSD	1.987776	3.139543	.5502999	6.612037	5.378874	.1765955	.2277774
#1	.1257718	-.063914	1.559057	.0929473	.0256146	92.45452	.9023134
#2	.1222208	-.060464	1.545859	.0818013	.0230298	92.38770	.9031404
#3	.1270070	-.060664	1.561902	.0904234	.0240340	92.14469	.8992429

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133803	.0064486	96.77371	.1725471	.0474204	.1993367	186.4651
Stddev	.0001654	.0001670	.31664	.0016423	.0007257	.0102764	.2767
%RSD	1.235935	2.589631	.3271926	.9517806	1.530356	5.155294	.1483895
#1	.0132522	.0063157	96.88823	.1708622	.0473675	.2072746	186.6213
#2	.0135670	.0063940	97.01715	.1726360	.0467226	.2030062	186.6284
#3	.0133219	.0066361	96.41574	.1741431	.0481711	.1877292	186.1456

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.481998	44.13943	.1852222	.0017847	.8161606	.2077391	1.324096
Stddev	.017073	.09113	.0014191	.0005012	.0322903	.0080537	.010583
%RSD	.2633917	.2064678	.7661497	28.08256	3.956364	3.876853	.7992923
#1	6.480678	44.24236	.1840297	.0012064	.8492940	.2121269	1.312072
#2	6.499692	44.10690	.1848451	.0020920	.8144025	.2126462	1.328217
#3	6.465623	44.06902	.1867917	.0020559	.7847852	.1984443	1.331999

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.779053	7.595473	.0809204	.0070488	3.455636	14.77245	.0457184
Stddev	.082501	.040895	.0005110	.0005757	.011647	.03560	.0007488
%RSD	1.217005	.5384173	.6314735	8.168107	.3370441	.2410205	1.637813
#1	6.852638	7.602001	.0814917	.0065876	3.461462	14.80115	.0457659
#2	6.689864	7.551707	.0807627	.0076941	3.442226	14.73261	.0449470
#3	6.794659	7.632712	.0805069	.0068648	3.463220	14.78359	.0464423

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-05 Acquired: 12/29/2024 10:11:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK85 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.010375	.0249952	.1026113
Stddev	.003106	.0011810	.0046301
%RSD	.3073939	4.725017	4.512228
#1	1.012093	.0250534	.1073805
#2	1.006789	.0261461	.0981342
#3	1.012242	.0237862	.1023191

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2346.496	29414.83	2226.465	1490.595	1819.657
Stddev	15.355	153.21	7.388	15.681	9.869
%RSD	.6543770	.5208679	.3318269	1.052016	.5423701
#1	2362.982	29564.40	2218.352	1508.679	1828.375
#2	2343.905	29421.89	2232.805	1480.764	1821.653
#3	2332.601	29258.22	2228.239	1482.342	1808.942

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-06 Acquired: 12/29/2024 10:15:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK86 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1656048	-.048194	4.921117	.0838863	.0161077	71.00871
Stddev	.0032711	.005217	.010030	.0018697	.0063092	.63015
%RSD	1.975265	10.82551	.2038258	2.228845	39.16855	.8874207
#1	.1620933	-.051523	4.928624	.0820822	.0102166	70.31793
#2	.1661556	-.050879	4.909725	.0837614	.0227650	71.55210
#3	.1685656	-.042181	4.925001	.0858153	.0153415	71.15608

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.504550	.0127694	.0124169	283.5139	.2037945	.0619562
Stddev	.009938	.0000132	.0000838	1.6250	.0007713	.0006871
%RSD	.6605185	.1035673	.6747374	.5731512	.3784631	1.108986
#1	1.493867	.0127545	.0123261	281.6449	.2046620	.0625555
#2	1.513519	.0127739	.0124333	284.5919	.2035353	.0621069
#3	1.506263	.0127798	.0124912	284.3049	.2031863	.0612063

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5660878	191.8301	9.665492	93.50267	.2278862	.0020162
Stddev	.0074538	.9674	.060975	.53920	.0004234	.0005320
%RSD	1.316726	.5043188	.6308536	.5766728	.1858124	26.38729
#1	.5575495	190.7993	9.600687	92.89524	.2282397	.0017136
#2	.5694179	192.7184	9.721732	93.92476	.2274169	.0026305
#3	.5712961	191.9727	9.674056	93.68801	.2280020	.0017045

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.017044	.1815149	3.670253	7.809590	F 10.77297	.1051379
Stddev	.009610	.0046911	.010386	.161437	.01289	.0013663
%RSD	.9449084	2.584439	.2829902	2.067160	.1196305	1.299556
#1	1.011507	.1869283	3.677093	7.630137	10.75841	.1057826
#2	1.011485	.1786391	3.658302	7.855619	10.78293	.1060625
#3	1.028141	.1789773	3.675365	7.943013	10.77756	.1035685

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-06 Acquired: 12/29/2024 10:15:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK86 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097227	4.512212	11.15645	.2666851	1.272298	.3001483
Stddev	.0010122	.016640	.02533	.0009318	.010075	.0035223
%RSD	10.41127	.3687663	.2270013	.3493954	.7918483	1.173520
#1	.0107598	4.528232	11.13596	.2672200	1.260768	.2960820
#2	.0096710	4.513387	11.14863	.2672261	1.276728	.3021089
#3	.0087373	4.495016	11.18477	.2656091	1.279400	.3022541

Elem	Li6707
Units	ppm
Avg	.0981979
Stddev	.0024416
%RSD	2.486437
#1	.1004981
#2	.0956359
#3	.0984596

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2348.043	29522.43	2294.652	1484.934	1733.047
Stddev	6.533	54.49	4.569	4.438	6.567
%RSD	.2782320	.1845700	.1991355	.2988583	.3789325
#1	2346.398	29515.86	2299.914	1480.775	1729.718
#2	2342.489	29579.91	2292.362	1489.606	1728.812
#3	2355.241	29471.53	2291.680	1484.422	1740.612

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-07 Acquired: 12/29/2024 10:19:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK87 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2685946	-.071176	9.626683	.1262062	.0320724	75.36338
Stddev	.0016311	.004542	.024577	.0059933	.0062475	.19320
%RSD	.6072609	6.380835	.2552991	4.748780	19.47930	.2563566
#1	.2687502	-.076029	9.622333	.1192860	.0352098	75.42283
#2	.2668912	-.067028	9.604572	.1297192	.0248780	75.51986
#3	.2701422	-.070472	9.653145	.1296133	.0361295	75.14744

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.501729	.0168202	.0243133	255.4310	.3351786	.0753791
Stddev	.004958	.0000373	.0000920	.4704	.0020791	.0005196
%RSD	.1981932	.2216121	.3782156	.1841677	.6202938	.6892794
#1	2.501717	.0168325	.0243804	255.3222	.3327824	.0747848
#2	2.506693	.0167784	.0242085	255.9463	.3365042	.0757473
#3	2.496777	.0168498	.0243511	255.0245	.3362492	.0756052

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9285068	245.9109	10.80360	67.07870	.2949829	.0088960
Stddev	.0064540	.5690	.03496	.16782	.0012773	.0014230
%RSD	.6950907	.2313910	.3236311	.2501768	.4329903	15.99604
#1	.9232197	246.1453	10.81648	67.12969	.2962627	.0082095
#2	.9356988	246.3252	10.83030	67.21511	.2937082	.0105321
#3	.9266018	245.2621	10.76403	66.89131	.2949777	.0079464

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.292009	.2353315	7.670243	7.397578	F 16.53636	.1471694
Stddev	.029599	.0014374	.026572	.126547	.02937	.0006825
%RSD	2.290958	.6107837	.3464267	1.710650	.1776386	.4637270
#1	1.283273	.2343491	7.642249	7.542005	16.52834	.1469317
#2	1.324993	.2346641	7.673363	7.344592	16.51182	.1466377
#3	1.267760	.2369812	7.695118	7.306137	16.56891	.1479390

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-07 Acquired: 12/29/2024 10:19:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK87 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137810	4.661565	11.80805	.5758863	.7632760	.3106510
Stddev	.0003297	.013714	.07311	.0007441	.0022913	.0029608
%RSD	2.392732	.2941911	.6191862	.1292098	.3001982	.9531089
#1	.0140241	4.660074	11.81319	.5755671	.7609457	.3081637
#2	.0139133	4.648658	11.87845	.5767368	.7655263	.3098632
#3	.0134057	4.675964	11.73250	.5753551	.7633561	.3139261

Elem	Li6707
Units	ppm
Avg	.0973769
Stddev	.0025896
%RSD	2.659399
#1	.0964133
#2	.0954072
#3	.1003102

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2525.882	31799.21	2468.906	1606.198	1790.449
Stddev	6.623	116.82	6.994	8.207	5.515
%RSD	.2621864	.3673574	.2832742	.5109842	.3080260
#1	2518.618	31876.46	2465.867	1607.250	1784.895
#2	2531.583	31856.35	2463.947	1613.830	1795.924
#3	2527.446	31664.83	2476.906	1597.516	1790.526

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-08 Acquired: 12/29/2024 10:23:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK88 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1538966	-.009643	3.986125	.0489522	.0024219	39.53245
Stddev	.0066611	.009953	.009339	.0055039	.0023120	1.54949
%RSD	4.328311	103.2092	.2342942	11.24346	95.46161	3.919536
#1	.1612569	-.015360	3.987334	.0552839	-.000226	41.31873
#2	.1521503	.001849	3.976240	.0453112	.004042	38.72778
#3	.1482826	-.015420	3.994800	.0462617	.003449	38.55085

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.164688	.0094416	.0119854	F 1572.924	.1632433	.0733182
Stddev	.045420	.0003836	.0000961	59.788	.0006520	.0021325
%RSD	3.899791	4.062329	.8020308	3.801042	.3994093	2.908560
#1	1.217069	.0098833	.0118756	1641.958	.1635750	.0708614
#2	1.140770	.0092484	.0120261	1538.927	.1636629	.0746902
#3	1.136224	.0091930	.0120545	1537.887	.1624922	.0744031

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5245599	154.8078	9.943752	164.6355	.1524235	.0048103
Stddev	.0198198	5.7044	.370702	5.5107	.0012734	.0004388
%RSD	3.778371	3.684839	3.727986	3.347218	.8354533	9.122353
#1	.5471786	161.3812	10.37157	170.9844	.1538870	.0044065
#2	.5162703	151.8857	9.74216	161.8301	.1518144	.0052773
#3	.5102307	151.1565	9.71753	161.0920	.1515689	.0047472

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.550642	.1186817	3.504607	4.464777	9.752653	.0900612
Stddev	.057139	.0080220	.014075	.296462	.022245	.0043686
%RSD	3.684886	6.759239	.4016184	6.640018	.2280950	4.850675
#1	1.616572	.1174480	3.497318	4.791176	9.755509	.0934806
#2	1.515489	.1113480	3.495670	4.390950	9.729118	.0915633
#3	1.519864	.1272490	3.520831	4.212205	9.773332	.0851398

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-08 Acquired: 12/29/2024 10:23:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK88 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042620	3.156286	8.912947	.2609471	.4340379	.9605944
Stddev	.0006094	.009406	.365775	.0009670	.0164655	.0375835
%RSD	14.29857	.2980060	4.103858	.3705659	3.793574	3.912529
#1	.0038685	3.152690	9.334047	.2619680	.4525772	1.003983
#2	.0049639	3.149208	8.674157	.2608284	.4284201	.939647
#3	.0039534	3.166959	8.730638	.2600450	.4211164	.938153

Elem	Li6707
Units	ppm
Avg	.0662939
Stddev	.0028241
%RSD	4.259928
#1	.0650157
#2	.0695311
#3	.0643350

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2245.441	28344.87	2271.845	1422.289	1561.635
Stddev	6.618	115.16	84.614	4.244	5.382
%RSD	.2947380	.4062818	3.724444	.2984143	.3446497
#1	2241.726	28429.90	2174.145	1427.189	1558.616
#2	2253.082	28213.82	2321.370	1419.801	1567.849
#3	2241.515	28390.91	2320.020	1419.875	1558.440

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-09 Acquired: 12/29/2024 10:27:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK89 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1406203	-.011168	2.583803	.0608821	.0122679	56.40210	1.086853
Stddev	.0040338	.002207	.001802	.0056075	.0024150	.41504	.005928
%RSD	2.868554	19.75793	.0697394	9.210386	19.68539	.7358532	.5453880
#1	.1422597	-.009078	2.585725	.0550280	.0094812	56.18719	1.082627
#2	.1435763	-.010951	2.582151	.0614131	.0137506	56.88052	1.093629
#3	.1360250	-.013476	2.583534	.0662052	.0135719	56.13859	1.084304

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103267	.0085371	477.3869	.1092156	.0888589	.2772755	147.5961
Stddev	.0000797	.0001371	3.4678	.0002679	.0013263	.0042307	.8314
%RSD	.7717646	1.605574	.7264197	.2452937	1.492614	1.525797	.5632638
#1	.0104015	.0084442	476.1135	.1095183	.0900462	.2817084	147.0264
#2	.0102429	.0084726	481.3114	.1091194	.0874274	.2732812	148.5501
#3	.0103356	.0086945	474.7359	.1090091	.0891029	.2768370	147.2118

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.24517	57.16875	.1375759	.0030480	.9172028	.1343191	1.387778
Stddev	.10640	.28425	.0003076	.0006688	.0029864	.0073139	.002516
%RSD	.6979434	.4972086	.2236088	21.94088	.3255965	5.445177	.1812717
#1	15.15529	56.97306	.1373627	.0023268	.9137803	.1291096	1.386165
#2	15.36266	57.49480	.1374364	.0036477	.9185486	.1311673	1.390677
#3	15.21755	57.03840	.1379285	.0031696	.9192795	.1426805	1.386493

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.908302	9.688170	.0709724	.0078019	1.741439	10.61502	.1325433
Stddev	.162901	.013494	.0010039	.0001393	.004759	.08329	.0015445
%RSD	2.757160	.1392870	1.414546	1.785897	.2732901	.7846574	1.165308
#1	5.734136	9.702339	.0720020	.0078231	1.743504	10.61260	.1307726
#2	6.056919	9.675470	.0699963	.0076532	1.735996	10.69950	.1332441
#3	5.933850	9.686702	.0709188	.0079295	1.744817	10.53297	.1336132

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-09 Acquired: 12/29/2024 10:27:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK89 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4002728	.2481174	.0545767
Stddev	.0067628	.0019966	.0053437
%RSD	1.689556	.8046923	9.791210
#1	.3949918	.2477666	.0484484
#2	.4078952	.2502662	.0582640
#3	.3979314	.2463195	.0570177

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2562.680	32295.05	2495.183	1628.922	1734.301
Stddev	11.417	88.64	18.105	.644	6.147
%RSD	.4455218	.2744618	.7255964	.0395464	.3544531
#1	2571.882	32203.88	2495.575	1628.491	1737.497
#2	2566.255	32380.92	2476.885	1628.613	1738.191
#3	2549.903	32300.33	2513.089	1629.663	1727.214

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-10 Acquired: 12/29/2024 10:30:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK90 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1328312	-.035634	2.983320	.0708411	.0149485	59.06932
Stddev	.0061003	.002058	.007376	.0046470	.0035271	.81416
%RSD	4.592512	5.774976	.2472381	6.559822	23.59474	1.378310
#1	.1364715	-.036429	2.980648	.0655905	.0168616	58.64568
#2	.1362336	-.033298	2.977653	.0744249	.0171056	60.00795
#3	.1257886	-.037177	2.991660	.0725079	.0108782	58.55434

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.685441	.0107802	.0115356	108.4661	.1530169	.0609111
Stddev	.027226	.0000749	.0002374	1.6488	.0010029	.0015330
%RSD	1.615381	.6951951	2.057759	1.520071	.6554067	2.516782
#1	1.669854	.0107457	.0113588	107.6779	.1519404	.0617750
#2	1.716879	.0108662	.0114425	110.3610	.1531855	.0591411
#3	1.669591	.0107287	.0118054	107.3593	.1539248	.0618171

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4548804	146.3078	9.311278	29.56934	.1884845	.0050815
Stddev	.0133340	2.0975	.123175	.40631	.0011912	.0005977
%RSD	2.931329	1.433603	1.322859	1.374080	.6319688	11.76157
#1	.4465857	144.8956	9.226583	29.40422	.1888250	.0055530
#2	.4702614	148.7179	9.452581	30.03221	.1871602	.0044093
#3	.4477940	145.3098	9.254671	29.27159	.1894683	.0052823

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4641181	.1550573	2.521647	6.273491	F 12.15923	.0875269
Stddev	.0368849	.0134239	.012912	.171945	.03309	.0042989
%RSD	7.947310	8.657361	.5120290	2.740815	.2721010	4.911479
#1	.4369512	.1396553	2.533989	6.082749	12.14353	.0866806
#2	.5061087	.1612472	2.508233	6.416592	12.13692	.0921860
#3	.4492945	.1642695	2.522721	6.321133	12.19724	.0837141

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-10 Acquired: 12/29/2024 10:30:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK90 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088157	4.606687	11.97780	.1126465	.6613159	.1093212
Stddev	.0006143	.010041	.09615	.0009162	.0075020	.0018758
%RSD	6.968207	.2179623	.8027577	.8133191	1.134405	1.715811
#1	.0087970	4.608614	11.96978	.1129140	.6532306	.1089622
#2	.0082109	4.595822	12.07771	.1116263	.6680514	.1113505
#3	.0094391	4.615625	11.88590	.1133991	.6626655	.1076509

Elem	Li6707
Units	ppm
Avg	.0757954
Stddev	.0003835
%RSD	.5060265
#1	.0758140
#2	.0761694
#3	.0754030

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2443.898	30841.47	2355.256	1560.046	1867.508
Stddev	2.851	90.02	25.326	6.086	3.391
%RSD	.1166652	.2918820	1.075309	.3901143	.1815699
#1	2446.421	30787.71	2349.001	1553.068	1871.362
#2	2444.468	30791.31	2333.644	1562.812	1864.981
#3	2440.805	30945.40	2383.124	1564.257	1866.181

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-11 Acquired: 12/29/2024 10:34:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK91 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1834101	-.047819	7.239401	.1006954	.0209422	74.55087
Stddev	.0030158	.008466	.070410	.0105074	.0027010	.31109
%RSD	1.644314	17.70396	.9725921	10.43485	12.89728	.4172813
#1	.1851910	-.049323	7.319061	.0959177	.0224832	74.55885
#2	.1851113	-.055433	7.185492	.0934258	.0178234	74.85789
#3	.1799280	-.038702	7.213649	.1127427	.0225198	74.23587

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.333473	.0141682	.0164830	150.0241	.1867149	.0722104
Stddev	.008822	.0000965	.0002872	.8358	.0007954	.0019677
%RSD	.3780629	.6814131	1.742077	.5571066	.4259737	2.724999
#1	2.331462	.0141797	.0167742	149.7589	.1859088	.0744804
#2	2.343126	.0142585	.0162001	150.9604	.1874991	.0709893
#3	2.325829	.0140664	.0164746	149.3532	.1867368	.0711616

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6321895	195.1072	12.33515	35.57396	.2490285	.0053083
Stddev	.0045895	.9229	.06097	.18190	.0032386	.0008892
%RSD	.7259668	.4730131	.4943036	.5113172	1.300473	16.75102
#1	.6305351	194.3428	12.32874	35.56481	.2527073	.0062020
#2	.6373769	196.1324	12.39907	35.76026	.2466079	.0044237
#3	.6286567	194.8463	12.27763	35.39681	.2477701	.0052993

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5947492	.2053123	3.297495	7.871563	F 16.00183	.1070314
Stddev	.0203751	.0100977	.008855	.033375	.17840	.0017340
%RSD	3.425829	4.918235	.2685340	.4239892	1.114853	1.620076
#1	.6128701	.1999688	3.293164	7.835761	16.20657	.1077956
#2	.5726938	.1990091	3.307682	7.877115	15.87982	.1082520
#3	.5986839	.2169590	3.291640	7.901814	15.91910	.1050466

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5038-11 Acquired: 12/29/2024 10:34:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK91 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119797	5.468034	12.60415	.1566915	.7014033	.1724713
Stddev	.0003105	.054766	.05667	.0016279	.0026645	.0023496
%RSD	2.591713	1.001575	.4496509	1.038939	.3798776	1.362319
#1	.0123370	5.529847	12.54080	.1585401	.7011540	.1733888
#2	.0118262	5.425561	12.62158	.1554722	.7041837	.1742237
#3	.0117758	5.448695	12.65006	.1560621	.6988723	.1698013

Elem	Li6707
Units	ppm
Avg	.0973842
Stddev	.0036012
%RSD	3.697987
#1	.0964551
#2	.1013589
#3	.0943385

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2513.459	31697.80	2484.977	1611.740	1824.922
Stddev	15.246	154.26	10.429	12.720	14.072
%RSD	.6065730	.4866511	.4196942	.7892394	.7711009
#1	2495.881	31574.52	2485.438	1602.164	1808.889
#2	2521.425	31648.09	2474.325	1606.883	1835.224
#3	2523.073	31870.78	2495.168	1626.173	1830.652

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-12 Acquired: 12/29/2024 10:38:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK92 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1523182	-.026699	2.966116	.0656466	.0111992	62.99618
Stddev	.0045835	.007177	.006528	.0020127	.0035833	.23124
%RSD	3.009128	26.88201	.2200727	3.065895	31.99575	.3670681
#1	.1534359	-.027635	2.973215	.0635147	.0119523	63.22146
#2	.1472793	-.033362	2.960372	.0659113	.0072993	63.00767
#3	.1562395	-.019099	2.964762	.0675138	.0143462	62.75941

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.804895	.0111578	.0115823	156.0384	.1422893	.0661642
Stddev	.004148	.0000433	.0000866	.8885	.0006366	.0003603
%RSD	.2298174	.3877217	.7478633	.5694144	.4473850	.5446170
#1	1.809683	.0111105	.0115642	157.0485	.1428290	.0661466
#2	1.802389	.0111953	.0116765	155.6893	.1415872	.0658130
#3	1.802614	.0111678	.0115061	155.3775	.1424515	.0665331

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4275536	149.7053	12.21931	30.59472	.1748555	.0054258
Stddev	.0028194	.7543	.02850	.09254	.0011049	.0011159
%RSD	.6594173	.5038471	.2332775	.3024770	.6318871	20.56614
#1	.4262173	150.5442	12.24195	30.69798	.1761299	.0044925
#2	.4256508	149.0829	12.22867	30.56687	.1741671	.0051232
#3	.4307926	149.4888	12.18730	30.51930	.1742694	.0066618

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5697627	.1653586	2.157207	5.866103	F 12.15732	.0829762
Stddev	.0277365	.0119938	.012757	.051400	.03846	.0019433
%RSD	4.868082	7.253220	.5913893	.8762225	.3163615	2.342048
#1	.5591798	.1602342	2.161407	5.915497	12.19136	.0847490
#2	.5488756	.1567782	2.142879	5.869905	12.11560	.0808984
#3	.6012327	.1790634	2.167336	5.812908	12.16500	.0832812

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-12 Acquired: 12/29/2024 10:38:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK92 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091527	2.926356	11.45146	.1381972	.6096173	.1905678
Stddev	.0003062	.016356	.06687	.0017347	.0033493	.0016740
%RSD	3.345660	.5589265	.5839647	1.255222	.5494140	.8784491
#1	.0091703	2.942809	11.50463	.1377557	.6133550	.1922415
#2	.0094497	2.910099	11.47338	.1367260	.6086088	.1905685
#3	.0088380	2.926159	11.37638	.1401100	.6068881	.1888934

Elem	Li6707
Units	ppm
Avg	.0807825
Stddev	.0042899
%RSD	5.310497
#1	.0846927
#2	.0814612
#3	.0761937

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2473.890	31154.25	2366.140	1579.489	1845.788
Stddev	2.335	115.38	13.236	10.780	3.385
%RSD	.0943725	.3703523	.5593773	.6825077	.1834130
#1	2474.716	31231.15	2370.316	1588.897	1843.024
#2	2475.699	31210.02	2351.321	1581.845	1849.564
#3	2471.254	31021.58	2376.785	1567.726	1844.776

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-13 Acquired: 12/29/2024 10:42:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0709108	-.079413	.3493220	.1035401	.0276648	108.5363	.9678007
Stddev	.0072877	.003402	.0032990	.0036159	.0039866	.3579	.0040816
%RSD	10.27730	4.284103	.9444042	3.492244	14.41047	.3297597	.4217381
#1	.0767746	-.083069	.3505209	.1077152	.0254857	108.5575	.9702081
#2	.0732058	-.076341	.3455912	.1014816	.0322660	108.8831	.9701059
#3	.0627518	-.078830	.3518540	.1014235	.0252426	108.1682	.9630880

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0160423	.0036749	142.8016	.1488590	.0340748	.1141491	226.3360
Stddev	.0001254	.0001577	.1713	.0001754	.0006887	.0027091	.5546
%RSD	.7818508	4.291309	.1199837	.1178054	2.021041	2.373309	.2450448
#1	.0160945	.0036479	142.6321	.1489550	.0332927	.1155188	226.3374
#2	.0161333	.0035324	142.9748	.1489654	.0345903	.1110286	226.8899
#3	.0158992	.0038443	142.7981	.1486566	.0343414	.1158999	225.7807

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.836275	52.65323	.1847389	-.001854	.5263373	.2391386	.5319362
Stddev	.008275	.24377	.0013218	.000539	.0344574	.0084357	.0025893
%RSD	.2157127	.4629802	.7155045	29.05198	6.546638	3.527552	.4867726
#1	3.845461	52.64363	.1841678	-.001580	.4925370	.2464873	.5337547
#2	3.833963	52.90166	.1837986	-.001507	.5614162	.2410013	.5330823
#3	3.829403	52.41439	.1862502	-.002474	.5250587	.2299272	.5289716

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.429517	6.155086	.0902414	.0047164	2.463398	15.11938	.0312986
Stddev	.129875	.017016	.0007818	.0003230	.014227	.02468	.0034592
%RSD	2.392022	.2764537	.8663157	6.847888	.5775308	.1632468	11.05236
#1	5.469343	6.142555	.0893432	.0044190	2.471834	15.13993	.0279377
#2	5.284393	6.148246	.0906125	.0046702	2.446972	15.12621	.0348484
#3	5.534816	6.174458	.0907685	.0050600	2.471387	15.09200	.0311098

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-13 Acquired: 12/29/2024 10:42:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8267543	.0521969	.1455585
Stddev	.0063670	.0009668	.0005590
%RSD	.7701239	1.852183	.3840030
#1	.8330838	.0511496	.1456742
#2	.8268287	.0523857	.1449507
#3	.8203503	.0530553	.1460505

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2343.890	29604.60	2233.091	1497.172	1825.102
Stddev	12.044	17.13	2.825	5.268	6.582
%RSD	.5138589	.0578652	.1265081	.3518387	.3606375
#1	2357.374	29612.76	2231.347	1493.862	1831.979
#2	2334.198	29584.92	2231.576	1494.407	1824.464
#3	2340.099	29616.13	2236.351	1503.246	1818.862

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV039 Acquired: 12/29/2024 10:46:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV039 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.195062	4.809963	24.75647	5.113146	5.021666	415.2927	10.41219
Stddev	.004554	.015943	.04193	.008224	.016059	4.1570	.10491
%RSD	.0876640	.3314616	.1693617	.1608400	.3197882	1.000980	1.007614
#1	5.191014	4.823262	24.75332	5.107199	5.007094	419.8598	10.52672
#2	5.194180	4.792289	24.71620	5.109708	5.038883	414.2886	10.38913
#3	5.199993	4.814338	24.79988	5.122531	5.019022	411.7297	10.32072

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5368841	2.498584	408.4193	15.39664	2.405817	14.93398	413.5394
Stddev	.0049647	.002653	4.6219	.00807	.004609	.13598	4.5616
%RSD	.9247146	.1061629	1.131665	.0524319	.1915948	.9105156	1.103058
#1	.5426088	2.497246	413.4832	15.39876	2.403795	15.08900	418.6205
#2	.5337603	2.496868	407.3471	15.38772	2.402564	14.87808	412.2009
#3	.5342831	2.501640	404.4278	15.40344	2.411092	14.83487	409.7968

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.90748	408.4210	2.514141	1.279351	432.3119	2.510280	15.13199
Stddev	.13733	4.8194	.000882	.001231	5.2410	.015513	.05692
%RSD	.9211908	1.180018	.0350903	.0962152	1.212323	.6179889	.3761761
#1	15.05472	413.6324	2.515062	1.280730	438.1829	2.514919	15.17878
#2	14.88486	407.5060	2.514058	1.278364	430.6478	2.522944	15.14857
#3	14.78287	404.1247	2.513303	1.278959	428.1049	2.492976	15.06862

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	154.5462	5.021740	5.179747	5.003264	5.127075	5.071128	5.030394
Stddev	1.4987	.011286	.055567	.005808	.011128	.042280	.011371
%RSD	.9697582	.2247476	1.072780	.1160766	.2170523	.8337368	.2260485
#1	156.1615	5.019036	5.234934	4.996564	5.130178	5.118060	5.018986
#2	154.2766	5.012052	5.123807	5.006855	5.114725	5.036015	5.030469
#3	153.2006	5.034133	5.180500	5.006373	5.136323	5.059310	5.041728

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: CCV039 Acquired: 12/29/2024 10:46:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV039 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.087420	4.774801	5.244703
Stddev	.044298	.050058	.044226
%RSD	.8707292	1.048378	.8432530
#1	5.137085	4.828164	5.294258
#2	5.073186	4.767358	5.230613
#3	5.051989	4.728882	5.209239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1849.863	24146.68	1875.707	1168.279	1567.307
Stddev	1.589	101.42	21.268	8.100	3.555
%RSD	.0859100	.4200096	1.133856	.6933666	.2267918
#1	1850.581	24039.09	1851.176	1160.753	1566.552
#2	1850.967	24160.43	1888.967	1167.231	1571.179
#3	1848.042	24240.52	1886.979	1176.852	1564.191

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB039 Acquired: 12/29/2024 10:50:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB039 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002748	.0001796	.0011675	.0021872	-.000909	.0359448
Stddev	.003518	.0006986	.0012771	.0040288	.001896	.0183086
%RSD	128.0049	389.0694	109.3902	184.2059	208.6675	50.93538
#1	.001114	.0009478	-.000200	.0003691	-.003001	.0387192
#2	-.003590	-.000417	.001372	.0068046	.000695	.0527080
#3	-.005768	.000008	.002330	-.000612	-.000420	.0164074

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000013	-.000186	.0000066	-.034275	.0000563	-.000171
Stddev	.002837	.000097	.0000506	.017068	.0007700	.000301
%RSD	22357.35	52.28711	763.4056	49.79866	1367.376	175.5404
#1	-.001780	-.000264	.0000153	-.032624	.0008383	-.000005
#2	.003260	-.000077	.0000523	-.052108	.0000318	.000009
#3	-.001518	-.000216	-.000048	-.018092	-.000701	-.000519

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006660	.0114364	-.000238	-.066504	.0001797	.0009629
Stddev	.009136	.0239371	.000514	.088803	.0002176	.0008097
%RSD	137.1810	209.3062	215.9257	133.5290	121.0593	84.09037
#1	-.002879	.0226386	.000045	-.089912	.0003040	.0018270
#2	-.017080	.0277183	-.000831	.031657	.0003066	.0008401
#3	-.000021	-.016048	.000072	-.141259	-.000072	.0002216

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129713	-.012288	.0030037	.2112007	.0015996	.0104454
Stddev	.0368740	.003542	.0011845	.1857852	.0016259	.0017805
%RSD	284.2727	28.82624	39.43610	87.96617	101.6440	17.04581
#1	.0291331	-.015428	.0039658	.1041184	.0019073	.0084826
#2	-.029224	-.008448	.0033646	.4257269	.0030497	.0108971
#3	.039005	-.012988	.0016807	.1037570	-.000158	.0119566

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: CCB039 Acquired: 12/29/2024 10:50:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB039 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003043	.0060664	.0011194	-.000821	.0015868	.0001074
Stddev	.0006104	.0030945	.0006390	.000614	.0010836	.0002485
%RSD	200.5794	51.01037	57.08436	74.74343	68.28768	231.3946
#1	.0008551	.0096123	.0005052	-.000339	.0014304	.0003127
#2	-.000352	.0039113	.0017806	-.001512	.0005899	-.000169
#3	.000410	.0046757	.0010725	-.000612	.0027400	.000178

Elem	Li6707
Units	ppm
Avg	F .0273869
Stddev	.0038766
%RSD	14.15505
#1	.0282542
#2	.0307564
#3	.0231501

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2028.286	25263.05	1926.149	1277.714	1826.388
Stddev	4.617	581.97	40.791	27.480	1.458
%RSD	.2276392	2.303640	2.117754	2.150696	.0798434
#1	2031.271	25335.14	1951.109	1281.281	1826.935
#2	2022.967	25805.61	1879.076	1303.236	1824.736
#3	2030.618	24648.39	1948.261	1248.625	1827.494

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-14 Acquired: 12/29/2024 10:54:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0611934	-.057479	.3608399	.0759536	.0195777	90.72917	.8362698
Stddev	.0066274	.004896	.0037418	.0043973	.0023537	.23638	.0017991
%RSD	10.83031	8.518623	1.036977	5.789426	12.02215	.2605291	.2151384
#1	.0638207	-.058696	.3646728	.0757349	.0222399	90.59922	.8347937
#2	.0661044	-.061651	.3571964	.0716697	.0187202	91.00201	.8382738
#3	.0536551	-.052088	.3606505	.0804561	.0177730	90.58627	.8357418

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126153	.0033110	139.1555	.1239819	.0380519	.1254876	176.8538
Stddev	.0001028	.0001142	.4633	.0022154	.0003757	.0045933	.4370
%RSD	.8150160	3.449526	.3329696	1.786871	.9874117	3.660326	.2470820
#1	.0127258	.0032725	138.7115	.1229757	.0379545	.1222760	176.6677
#2	.0125226	.0032210	139.6360	.1265218	.0377345	.1307488	177.3530
#3	.0125974	.0034395	139.1190	.1224481	.0384668	.1234379	176.5407

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.404346	56.38898	.1518761	-.000007	.5500119	.1846302	.5052112
Stddev	.004646	.33275	.0008897	.000374	.0195809	.0027942	.0016772
%RSD	.1364772	.5901034	.5857767	5380.036	3.560087	1.513398	.3319818
#1	3.401066	56.02345	.1528923	.000416	.5424543	.1852492	.5070709
#2	3.409663	56.67429	.1514985	-.000293	.5722454	.1815784	.5038132
#3	3.402309	56.46919	.1512376	-.000143	.5353361	.1870629	.5047493

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.664641	6.206869	.0747555	.0051683	2.901489	15.77039	.0336388
Stddev	.144954	.014852	.0002200	.0008703	.007813	.08460	.0018948
%RSD	2.558928	.2392837	.2942934	16.83931	.2692846	.5364680	5.632744
#1	5.559147	6.224004	.0749109	.0060124	2.909030	15.86803	.0348844
#2	5.829927	6.197690	.0745037	.0042740	2.902006	15.71898	.0314583
#3	5.604850	6.198912	.0748518	.0052185	2.893429	15.72415	.0345738

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-14 Acquired: 12/29/2024 10:54:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7716541	.0621945	.1123443
Stddev	.0037577	.0004535	.0033927
%RSD	.4869731	.7291651	3.019911
#1	.7683076	.0617416	.1162321
#2	.7757193	.0626486	.1108178
#3	.7709355	.0621932	.1099830

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2318.358	29367.88	2231.524	1487.720	1827.208
Stddev	7.757	30.76	15.975	11.997	8.066
%RSD	.3345920	.1047418	.7158954	.8063695	.4414516
#1	2320.503	29339.63	2214.907	1474.452	1827.030
#2	2324.816	29400.65	2246.769	1497.803	1835.362
#3	2309.753	29363.35	2232.895	1490.904	1819.233

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-15 Acquired: 12/29/2024 10:58:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0246149	.0173120	.9586343	-.008694	-.018197	28.26668
Stddev	.0040187	.0005594	.0047370	.005160	.003736	.14819
%RSD	16.32647	3.231206	.4941447	59.35426	20.52902	.5242611
#1	.0243688	.0167171	.9584662	-.012821	-.020725	28.20821
#2	.0287511	.0173914	.9539835	-.010354	-.013906	28.43518
#3	.0207249	.0178274	.9634531	-.002908	-.019960	28.15664

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2690827	.0053056	.0085298	F 1555.835	.0677257	.0590086
Stddev	.0013788	.0002212	.0001008	20.753	.0003942	.0013628
%RSD	.5124188	4.168319	1.181527	1.333901	.5820990	2.309428
#1	.2686685	.0055318	.0085344	1556.088	.0675690	.0593102
#2	.2706212	.0050899	.0086281	1576.461	.0674339	.0575203
#3	.2679585	.0052951	.0084267	1534.957	.0681742	.0601953

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0706961	85.53559	8.453333	F 824.8211	.0939927	.0010028
Stddev	.0094000	.59356	.043118	6.4167	.0007745	.0017989
%RSD	13.29637	.6939359	.5100767	.7779447	.8239688	179.3836
#1	.0598553	85.13810	8.427034	821.5403	.0947309	.0007004
#2	.0756493	86.21788	8.503095	832.2148	.0931864	.0029337
#3	.0765836	85.25080	8.429871	820.7082	.0940607	-.000626

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.849849	.1147369	1.532544	2.629501	3.102724	.0917250
Stddev	.025866	.0052344	.002583	.044132	.008223	.0006017
%RSD	1.398259	4.562103	.1685218	1.678340	.2650106	.6560211
#1	1.877731	.1103355	1.529904	2.597529	3.112206	.0918110
#2	1.845179	.1133502	1.535066	2.679852	3.097562	.0922791
#3	1.826636	.1205251	1.532662	2.611121	3.098405	.0910848

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-15 Acquired: 12/29/2024 10:58:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007328	16.56685	8.905453	.0362777	.3016026	.4957150
Stddev	.0002936	.02813	.065781	.0010328	.0031940	.0030873
%RSD	40.06978	.1697761	.7386614	2.846936	1.058993	.6228007
#1	.0009323	16.59899	8.952650	.0359167	.3020491	.4966508
#2	.0003956	16.54672	8.933395	.0374425	.3045498	.4982260
#3	.0008705	16.55485	8.830313	.0354738	.2982089	.4922680

Elem	Li6707
Units	ppm
Avg	.0531105
Stddev	.0026996
%RSD	5.083029
#1	.0519126
#2	.0562018
#3	.0512172

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1957.698	25253.04	1977.732	1250.913	1467.509
Stddev	1.534	39.88	14.018	5.903	.441
%RSD	.0783727	.1579356	.7087887	.4718622	.0300582
#1	1958.661	25222.89	1972.580	1250.897	1468.001
#2	1955.929	25237.96	1967.019	1245.019	1467.378
#3	1958.505	25298.26	1993.597	1256.824	1467.149

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-16 Acquired: 12/29/2024 11:02:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0176371	.0140166	.1617259	-.002882	-.017020	48.21293
Stddev	.0049344	.0025771	.0021851	.006107	.001763	.10947
%RSD	27.97735	18.38595	1.351110	211.8551	10.35741	.2270454
#1	.0119726	.0128254	.1634149	.000673	-.015629	48.26168
#2	.0199371	.0169738	.1592581	.000614	-.019002	48.08756
#3	.0210016	.0122506	.1625048	-.009934	-.016429	48.28956

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3196599	.0057358	.0032419	F 1172.239	.0654796	.0541930
Stddev	.0015000	.0001476	.0000637	2.206	.0006029	.0003601
%RSD	.4692350	2.573340	1.965016	.1881497	.9206883	.6644194
#1	.3179294	.0056640	.0033078	1171.199	.0658684	.0542930
#2	.3204631	.0056378	.0032373	1170.747	.0647852	.0544925
#3	.3205872	.0059055	.0031807	1174.773	.0657853	.0537935

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0564447	82.99534	4.863700	352.8307	.0938233	-.000831
Stddev	.0066493	.11697	.011067	1.2016	.0008051	.001307
%RSD	11.78019	.1409352	.2275346	.3405685	.8581295	157.2940
#1	.0556579	83.01080	4.868716	352.8353	.0947419	-.001954
#2	.0634524	82.87140	4.851013	351.6267	.0934884	-.001142
#3	.0502238	83.10381	4.871369	354.0300	.0932398	.000603

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.541651	.1260446	.5527041	1.087712	2.250861	.1200972
Stddev	.045405	.0063571	.0022931	.109377	.013676	.0015125
%RSD	2.945242	5.043558	.4148848	10.05572	.6075793	1.259377
#1	1.496468	.1268616	.5520223	1.154013	2.250337	.1214925
#2	1.587276	.1193185	.5552608	.961467	2.237454	.1203091
#3	1.541209	.1319537	.5508293	1.147654	2.264791	.1184899

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-16 Acquired: 12/29/2024 11:02:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189100	20.99610	17.02075	.0213921	1.563211	.6863325
Stddev	.0002442	.07183	.01500	.0004435	.002844	.0007492
%RSD	1.291125	.3421326	.0881376	2.072988	.1819530	.1091626
#1	.0187718	20.94766	17.03783	.0218317	1.564019	.6860098
#2	.0191919	20.96202	17.01467	.0209449	1.560050	.6857986
#3	.0187663	21.07863	17.00974	.0213996	1.565563	.6871889

Elem	Li6707
Units	ppm
Avg	.0379729
Stddev	.0019670
%RSD	5.179899
#1	.0367962
#2	.0402436
#3	.0368788

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2053.916	26285.77	2031.794	1314.497	1579.211
Stddev	3.272	185.24	15.266	6.519	4.782
%RSD	.1593012	.7047061	.7513583	.4959534	.3027855
#1	2057.479	26348.77	2030.200	1317.575	1578.021
#2	2053.223	26431.29	2047.794	1318.907	1584.475
#3	2051.046	26077.25	2017.387	1307.008	1575.137

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-17 Acquired: 12/29/2024 11:05:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271956	.0189710	.4774734	-.008877	-.021347	19.92270
Stddev	.0067793	.0095361	.0013082	.007640	.009146	.15864
%RSD	24.92785	50.26658	.2739928	86.05642	42.84412	.7962916
#1	.0216588	.0081208	.4784477	-.001497	-.024813	19.90668
#2	.0251717	.0227709	.4779860	-.016752	-.010975	20.08874
#3	.0347563	.0260214	.4759864	-.008383	-.028253	19.77267

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2475342	.0053350	.0070128	F 1689.370	.0535791	.0542078
Stddev	.0028548	.0001996	.0000753	11.841	.0011427	.0015347
%RSD	1.153286	3.741725	1.073759	.7009108	2.132779	2.831100
#1	.2489637	.0055493	.0069848	1702.170	.0544113	.0547520
#2	.2493918	.0051543	.0069555	1687.132	.0540497	.0524752
#3	.2442470	.0053015	.0070981	1678.807	.0522762	.0553962

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0406501	97.01151	8.029091	F 915.7076	.0987436	.0000102
Stddev	.0123015	.77729	.075183	9.0081	.0010613	.0001265
%RSD	30.26179	.8012370	.9363811	.9837290	1.074783	1245.153
#1	.0334073	97.24668	8.049692	918.6708	.0996327	-.000080
#2	.0336893	97.64406	8.091825	922.8609	.0990294	.000155
#3	.0548537	96.14379	7.945755	905.5912	.0975687	-.000045

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.064698	.0949013	1.321424	3.401904	2.315112	.1114523
Stddev	.025269	.0023135	.004638	.191121	.008527	.0026772
%RSD	1.223866	2.437819	.3510042	5.618058	.3683304	2.402135
#1	2.080240	.0975566	1.317206	3.371371	2.319499	.1083634
#2	2.078314	.0933198	1.326391	3.606454	2.305285	.1128882
#3	2.035541	.0938276	1.320675	3.227888	2.320553	.1131052

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-17 Acquired: 12/29/2024 11:05:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027180	37.22664	8.113977	.0260299	.1487740	.7117497
Stddev	.0005498	.03971	.111801	.0037597	.0011028	.0084189
%RSD	20.22673	.1066819	1.377886	14.44387	.7412508	1.182847
#1	.0028110	37.26271	8.138875	.0265997	.1475009	.7145337
#2	.0032153	37.18408	8.211230	.0294722	.1493892	.7184240
#3	.0021277	37.23313	7.991825	.0220178	.1494321	.7022914

Elem	Li6707
Units	ppm
Avg	.0457894
Stddev	.0040020
%RSD	8.740037
#1	.0445823
#2	.0502560
#3	.0425298

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1943.856	25050.50	1989.126	1240.722	1472.094
Stddev	4.367	103.89	16.017	5.653	2.713
%RSD	.2246487	.4147025	.8052380	.4556137	.1842915
#1	1941.445	25151.81	1991.315	1247.185	1469.468
#2	1948.897	25055.47	1972.127	1238.282	1474.886
#3	1941.226	24944.21	2003.936	1236.699	1471.928

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-18 Acquired: 12/29/2024 11:09:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0717461	.0149197	1.921346	.0052331	-.010892	31.64852
Stddev	.0039385	.0034956	.002746	.0034275	.002531	.12104
%RSD	5.489524	23.42939	.1429371	65.49724	23.23663	.3824389
#1	.0759633	.0110005	1.920873	.0027962	-.013022	31.74788
#2	.0681633	.0177155	1.918867	.0091522	-.011559	31.68397
#3	.0711117	.0160429	1.924298	.0037508	-.008094	31.51372

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7835182	.0072116	.0074208	F 1193.853	.0694548	.0644951
Stddev	.0017489	.0000350	.0000662	1.733	.0007106	.0006718
%RSD	.2232083	.4856229	.8925803	.1451966	1.023043	1.041617
#1	.7816234	.0071720	.0074973	1195.128	.0686360	.0649330
#2	.7850705	.0072385	.0073819	1194.550	.0699093	.0637217
#3	.7838606	.0072244	.0073832	1191.879	.0698191	.0648307

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2488040	99.42872	6.215166	660.6550	.1124601	.0004100
Stddev	.0128393	.18476	.014890	1.5216	.0004863	.0026376
%RSD	5.160427	.1858209	.2395790	.2303242	.4323876	643.2536
#1	.2574337	99.59161	6.232250	661.8219	.1121517	.0031007
#2	.2549293	99.46659	6.208307	661.2093	.1130206	-.002171
#3	.2340491	99.22796	6.204941	658.9339	.1122079	.000301

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.605327	.0783757	1.601667	4.608698	4.663638	.0957474
Stddev	.018703	.0085709	.025422	.108944	.005595	.0023670
%RSD	1.165080	10.93566	1.587194	2.363884	.1199656	2.472081
#1	1.599028	.0867791	1.578717	4.644859	4.660241	.0945173
#2	1.590587	.0696466	1.628993	4.694963	4.660577	.0942488
#3	1.626367	.0787014	1.597292	4.486271	4.670095	.0984761

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-18 Acquired: 12/29/2024 11:09:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037344	25.67317	8.523713	.0729158	.2895140	2.031526
Stddev	.0007735	.04088	.028693	.0030035	.0025065	.003175
%RSD	20.71281	.1592508	.3366252	4.119102	.8657532	.1562755
#1	.0037893	25.67545	8.523430	.0737255	.2902085	2.030646
#2	.0029349	25.63120	8.552547	.0695905	.2916001	2.035048
#3	.0044790	25.71288	8.495163	.0754314	.2867335	2.028884

Elem	Li6707
Units	ppm
Avg	.0568538
Stddev	.0038380
%RSD	6.750555
#1	.0567162
#2	.0607587
#3	.0530865

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2106.933	27004.07	2111.072	1340.173	1534.682
Stddev	4.300	322.05	16.137	21.431	4.406
%RSD	.2040755	1.192598	.7644219	1.599146	.2870787
#1	2102.870	27135.61	2109.073	1355.719	1531.112
#2	2111.436	26637.07	2096.027	1315.725	1539.606
#3	2106.493	27239.53	2128.116	1349.074	1533.328

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-19 Acquired: 12/29/2024 11:13:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0509329	-.005007	.3328749	.0176842	-.000053	39.07800
Stddev	.0039558	.003286	.0008065	.0058090	.001850	.12268
%RSD	7.766709	65.63409	.2422894	32.84851	3519.848	.3139413
#1	.0495350	-.005723	.3324554	.0226113	-.002115	38.97577
#2	.0478658	-.007876	.3323646	.0112789	.001463	39.04420
#3	.0553979	-.001422	.3338047	.0191624	.000495	39.21404

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4617626	.0050969	.0025724	110.5081	.0632599	.0345135
Stddev	.0018104	.0000686	.0001138	.3416	.0005260	.0005429
%RSD	.3920584	1.346465	4.422535	.3090894	.8315564	1.573046
#1	.4596890	.0050186	.0025324	110.2308	.0633569	.0350744
#2	.4625699	.0051470	.0024840	110.4037	.0626921	.0339905
#3	.4630289	.0051249	.0027008	110.8896	.0637307	.0344756

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0975365	73.64601	3.006120	19.73753	.0601364	.0004491
Stddev	.0037734	.24181	.003176	.26195	.0006828	.0004080
%RSD	3.868686	.3283398	.1056495	1.327165	1.135491	90.84974
#1	.0966139	73.67673	3.002735	19.44121	.0608981	.0009201
#2	.0943099	73.87098	3.006590	19.93826	.0599320	.0002249
#3	.1016856	73.39030	3.009035	19.83311	.0595791	.0002024

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6124418	.0845020	.6490727	5.445468	F 10.56630	.0620018
Stddev	.0069860	.0031783	.0020754	.166778	.01280	.0011168
%RSD	1.140673	3.761154	.3197496	3.062697	.1211808	1.801275
#1	.6200294	.0824662	.6492879	5.291047	10.55989	.0609141
#2	.6062764	.0881643	.6510322	5.423026	10.55796	.0631456
#3	.6110197	.0828754	.6468981	5.622330	10.58104	.0619457

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-19 Acquired: 12/29/2024 11:13:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072967	4.822975	9.151279	.0234443	.6678706	.2699265
Stddev	.0004584	.021352	.086615	.0018242	.0010087	.0013206
%RSD	6.282865	.4427051	.9464831	7.781044	.1510329	.4892419
#1	.0067713	4.837119	9.100782	.0216252	.6681512	.2690731
#2	.0076158	4.798414	9.101762	.0252736	.6687094	.2692587
#3	.0075028	4.833392	9.251292	.0234341	.6667513	.2714476

Elem	Li6707
Units	ppm
Avg	.0264189
Stddev	.0026597
%RSD	10.06749
#1	.0254021
#2	.0294370
#3	.0244176

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2259.485	28626.59	2175.002	1437.035	1895.758
Stddev	7.299	170.18	6.220	11.235	5.691
%RSD	.3230248	.5944859	.2859965	.7818397	.3001810
#1	2253.291	28496.17	2172.699	1433.113	1889.308
#2	2257.633	28564.51	2182.046	1428.286	1897.896
#3	2267.531	28819.10	2170.262	1449.706	1900.070

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-20 Acquired: 12/29/2024 11:17:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1107658	-.063387	.8093759	.0974766	.0289278	81.27042	1.037122
Stddev	.0059568	.004453	.0009735	.0014950	.0049121	.09756	.001509
%RSD	5.377823	7.024597	.1202795	1.533663	16.98064	.1200390	.1455343
#1	.1147996	-.058269	.8083768	.0957514	.0337343	81.22586	1.037403
#2	.1039240	-.066370	.8094293	.0982879	.0291327	81.38230	1.038471
#3	.1135739	-.065521	.8103216	.0983905	.0239164	81.20311	1.035492

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130863	.0061713	50.39930	.1256063	.0374910	.2026203	179.3223
Stddev	.0000722	.0001278	.14932	.0001649	.0002335	.0065229	.1035
%RSD	.5514982	2.070241	.2962681	.1312909	.6229012	3.219250	.0577309
#1	.0131681	.0062842	50.53141	.1254363	.0375522	.2075482	179.2856
#2	.0130590	.0060326	50.42919	.1257657	.0372330	.1952234	179.4392
#3	.0130318	.0061970	50.23730	.1256168	.0376878	.2050894	179.2421

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.584602	25.32149	.1780460	-.001051	.3942018	.1820958	.9270182
Stddev	.014707	.17201	.0009370	.000462	.0139038	.0083652	.0023296
%RSD	.1713159	.6792886	.5262571	43.96432	3.527069	4.593871	.2512986
#1	8.572741	25.12366	.1777664	-.000969	.3955427	.1731782	.9296807
#2	8.601058	25.40511	.1790909	-.000635	.4073866	.1833399	.9253547
#3	8.580008	25.43570	.1772806	-.001548	.3796762	.1897694	.9260193

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.416203	8.156610	.0939240	.0079409	3.875401	13.67214	.0432597
Stddev	.094485	.011583	.0008318	.0003047	.006599	.14875	.0010346
%RSD	1.122657	.1420072	.8856343	3.836986	.1702676	1.087972	2.391659
#1	8.525276	8.158673	.0945477	.0081005	3.882348	13.64192	.0432241
#2	8.363846	8.167023	.0929795	.0075896	3.869218	13.83368	.0422434
#3	8.359488	8.144134	.0942446	.0081327	3.874637	13.54082	.0443117

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-20 Acquired: 12/29/2024 11:17:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6412146	-.040921	.0848018
Stddev	.0025175	.000601	.0043244
%RSD	.3926101	1.468459	5.099359
#1	.6386593	-.040738	.0810178
#2	.6412920	-.040433	.0895154
#3	.6436924	-.041592	.0838724

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2442.667	30819.25	2366.635	1555.934	1869.508
Stddev	3.474	150.84	23.379	12.301	1.860
%RSD	.1422407	.4894366	.9878713	.7905581	.0995159
#1	2446.222	30648.34	2354.429	1542.423	1869.559
#2	2439.279	30875.59	2351.884	1566.484	1867.622
#3	2442.500	30933.80	2393.591	1558.894	1871.342

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-21 Acquired: 12/29/2024 11:21:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1640063	-.040362	1.497652	.0855218	.0188596	67.44177	1.253244
Stddev	.0068642	.004227	.006829	.0015450	.0032756	.16476	.002943
%RSD	4.185330	10.47330	.4559611	1.806549	17.36832	.2442999	.2348357
#1	.1718653	-.044442	1.501884	.0872554	.0213147	67.60187	1.255872
#2	.1609680	-.040641	1.501298	.0850196	.0151403	67.27272	1.250064
#3	.1591856	-.036002	1.489774	.0842904	.0201237	67.45071	1.253795

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121456	.0096500	84.03725	.1128528	.0645636	.3463057	161.9150
Stddev	.0004163	.0001698	.18964	.0009001	.0001600	.0069935	.4272
%RSD	3.427941	1.759323	.2256616	.7976228	.2477659	2.019450	.2638154
#1	.0117505	.0098427	84.23050	.1118146	.0645640	.3525568	162.3795
#2	.0121059	.0095225	83.85143	.1134152	.0644034	.3476075	161.5390
#3	.0125804	.0095847	84.02981	.1133286	.0647233	.3387528	161.8264

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.81851	28.32313	.2059586	.0003004	.4518404	.1540209	1.282646
Stddev	.04285	.02317	.0009596	.0005985	.0261696	.0020496	.007490
%RSD	.3342790	.0818106	.4659122	199.2401	5.791786	1.330714	.5839126
#1	12.86065	28.34504	.2063138	-.000390	.4257575	.1536697	1.291278
#2	12.77498	28.32546	.2066899	.000617	.4516678	.1562234	1.278787
#3	12.81989	28.29888	.2048721	.000674	.4780959	.1521696	1.277872

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.915609	8.788951	.0934676	.0082478	3.889047	11.56280	.0832709
Stddev	.017045	.018406	.0026691	.0009696	.009593	.01476	.0006834
%RSD	.2464757	.2094252	2.855640	11.75587	.2466745	.1276519	.8206867
#1	6.919352	8.790033	.0951699	.0071671	3.892303	11.57962	.0825633
#2	6.897004	8.806792	.0903914	.0090416	3.896589	11.55202	.0833221
#3	6.930473	8.770028	.0948415	.0085348	3.878250	11.55676	.0839272

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5038-21 Acquired: 12/29/2024 11:21:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKB3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6633332	.0137278	.0715386
Stddev	.0010840	.0007594	.0033296
%RSD	.1634092	5.532182	4.654296
#1	.6643459	.0133918	.0738762
#2	.6634637	.0131943	.0677264
#3	.6621898	.0145973	.0730134

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2579.755	32375.32	2505.533	1641.642	1861.686
Stddev	4.000	86.59	5.630	2.951	3.004
%RSD	.1550462	.2674456	.2246987	.1797291	.1613706
#1	2575.678	32474.99	2510.289	1638.318	1859.434
#2	2579.916	32332.29	2506.992	1642.658	1860.528
#3	2583.672	32318.68	2499.316	1643.951	1865.097

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-01 Acquired: 12/29/2024 11:25:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1648721	-.035984	1.395085	.0804139	.1091790	73.61744
Stddev	.0042846	.005767	.003959	.0018313	.0039090	.44299
%RSD	2.598764	16.02685	.2837565	2.277328	3.580373	.6017519
#1	.1697063	-.029438	1.390624	.0801125	.1065388	73.30724
#2	.1615432	-.038196	1.396454	.0787521	.1073285	73.42030
#3	.1633670	-.040317	1.398178	.0823772	.1136696	74.12478

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.555380	.0134487	.0084524	146.0422	.1343699	.1195585
Stddev	.009106	.0002265	.0001341	.9460	.0003918	.0004748
%RSD	.5854770	1.684508	1.586328	.6477468	.2916101	.3970894
#1	1.553349	.0131957	.0084477	145.8001	.1348110	.1195359
#2	1.547461	.0136329	.0083207	145.2408	.1340621	.1190954
#3	1.565331	.0135174	.0085887	147.0857	.1342365	.1200441

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3182116	166.1415	15.10107	44.04538	.2447685	-.000148
Stddev	.0058193	.7986	.06665	.32165	.0013763	.000765
%RSD	1.828738	.4806961	.4413720	.7302805	.5622798	517.1944
#1	.3161030	165.6567	15.06827	43.68071	.2432552	.000275
#2	.3137405	165.7044	15.05717	44.28874	.2451050	.000312
#3	.3247911	167.0632	15.17777	44.16670	.2459453	-.001031

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.955210	.2156122	2.033248	11.73756	F 13.42522	.6703748
Stddev	.010205	.0129044	.007123	.13004	.02840	.0010046
%RSD	.3453368	5.985012	.3503327	1.107906	.2115134	.1498493
#1	2.943467	.2031464	2.041456	11.62361	13.39368	.6713715
#2	2.960233	.2147756	2.029603	11.70985	13.43322	.6693626
#3	2.961931	.2289145	2.028685	11.87923	13.44876	.6703904

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-01 Acquired: 12/29/2024 11:25:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0177113	6.477408	11.22452	.3329507	1.079430	.1532464
Stddev	.0006184	.015526	.05646	.0031764	.007337	.0007376
%RSD	3.491719	.2396995	.5030252	.9540209	.6796741	.4812964
#1	.0174938	6.460134	11.16102	.3316167	1.077672	.1524108
#2	.0184091	6.490203	11.24346	.3306588	1.073131	.1538066
#3	.0172310	6.481885	11.26907	.3365765	1.087485	.1535219

Elem	Li6707
Units	ppm
Avg	.1091954
Stddev	.0039229
%RSD	3.592500
#1	.1052427
#2	.1092559
#3	.1130877

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2428.390	30591.19	2330.841	1557.277	1787.327
Stddev	6.749	66.29	7.007	4.132	2.295
%RSD	.2779121	.2167114	.3006311	.2653631	.1284149
#1	2421.222	30516.20	2338.870	1552.737	1784.687
#2	2434.621	30615.38	2325.955	1558.277	1788.852
#3	2429.327	30642.00	2327.699	1560.818	1788.442

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-02 Acquired: 12/29/2024 11:29:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1864996	-.033330	1.534099	.0607841	.0108774	77.71659
Stddev	.0032487	.005221	.004974	.0080100	.0042628	3.93124
%RSD	1.741936	15.66368	.3242072	13.17773	39.18966	5.058430
#1	.1877351	-.027344	1.528497	.0515359	.0060968	73.20615
#2	.1828144	-.036939	1.535806	.0652979	.0142831	79.52848
#3	.1889492	-.035708	1.537995	.0655186	.0122523	80.41516

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.269556	.0143513	.0072608	152.5645	.1181898	.0787011
Stddev	.064683	.0006109	.0001694	7.6633	.0004127	.0037864
%RSD	5.094942	4.257023	2.332877	5.022996	.3491956	4.811090
#1	1.195461	.0136463	.0074060	143.7497	.1184550	.0830498
#2	1.298460	.0147270	.0070747	156.2997	.1184000	.0769185
#3	1.314748	.0146805	.0073017	157.6439	.1177143	.0761351

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2893934	148.1109	8.680454	34.69560	.2411300	-.001923
Stddev	.0104204	7.8587	.459014	1.80258	.0010136	.001447
%RSD	3.600769	5.305953	5.287899	5.195419	.4203638	75.25453
#1	.2774656	139.1341	8.157733	32.65278	.2403914	-.003542
#2	.2967287	151.4501	8.865879	35.37138	.2407129	-.001469
#3	.2939858	153.7486	9.017748	36.06264	.2422856	-.000757

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.162136	.2023782	1.307258	10.03361	F 11.76293	.1246135
Stddev	.035725	.0107062	.007533	.67518	.03037	.0078775
%RSD	3.074117	5.290213	.5762089	6.729153	.2581512	6.321557
#1	1.122312	.1908968	1.311667	9.27019	11.73153	.1155452
#2	1.172731	.2041493	1.311546	10.27837	11.76512	.1285319
#3	1.191366	.2120884	1.298560	10.55227	11.79215	.1297634

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-02 Acquired: 12/29/2024 11:29:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0162510	5.800143	10.77796	.0688187	1.007999	.2480618
Stddev	.0002591	.008623	.43492	.0014749	.054596	.0115096
%RSD	1.594321	.1486699	4.035260	2.143223	5.416293	4.639830
#1	.0160384	5.794270	10.28969	.0676149	.945407	.2347782
#2	.0161751	5.796116	10.92039	.0704640	1.032783	.2543383
#3	.0165396	5.810043	11.12381	.0683773	1.045808	.2550687

Elem	Li6707
Units	ppm
Avg	.1113753
Stddev	.0089385
%RSD	8.025599
#1	.1016472
#2	.1132526
#3	.1192261

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2478.204	31306.82	2454.157	1585.681	1795.052
Stddev	4.543	73.00	108.497	1.843	2.020
%RSD	.1833000	.2331731	4.420937	.1162135	.1125284
#1	2483.376	31299.95	2572.739	1587.640	1796.468
#2	2476.376	31383.01	2429.869	1585.421	1795.948
#3	2474.860	31237.49	2359.863	1583.982	1792.739

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-03 Acquired: 12/29/2024 11:33:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2105207	-.033601	1.204795	.0520813	.0079584	90.78683	1.412850
Stddev	.0022034	.005156	.003731	.0012584	.0013902	.65009	.012172
%RSD	1.046643	15.34441	.3096880	2.416209	17.46854	.7160611	.8615050
#1	.2084005	-.037687	1.201330	.0531429	.0083718	91.51838	1.426500
#2	.2103629	-.035307	1.204309	.0524098	.0064084	90.56679	1.408925
#3	.2127988	-.027808	1.208745	.0506912	.0090950	90.27532	1.403125

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142404	.0068829	190.5964	.1353175	.1189999	.3739672	136.8034
Stddev	.0002176	.0001011	1.3870	.0005300	.0005049	.0001922	1.0528
%RSD	1.527939	1.468137	.7277117	.3916741	.4243112	.0513921	.7695751
#1	.0143711	.0069056	192.1405	.1350458	.1185138	.3741745	137.9760
#2	.0143609	.0067724	190.1926	.1349785	.1195218	.3737949	136.4948
#3	.0139892	.0069706	189.4562	.1359283	.1189642	.3739323	135.9394

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.846277	43.93638	.2656636	-.001569	1.399858	.2777803	1.590070
Stddev	.035087	.36781	.0006765	.000485	.009848	.0066963	.004349
%RSD	.7239981	.8371346	.2546591	30.92909	.7035072	2.410636	.2734836
#1	4.881521	44.31861	.2657258	-.001030	1.400601	.2764180	1.588141
#2	4.845959	43.90559	.2649582	-.001972	1.389660	.2718699	1.587019
#3	4.811350	43.58493	.2663070	-.001704	1.409314	.2850529	1.595049

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.22673	7.032493	.0982358	.0232429	3.679496	10.89159	.0617037
Stddev	.05111	.016250	.0026370	.0002245	.013270	.06497	.0013016
%RSD	.4997549	.2310669	2.684382	.9659098	.3606448	.5964785	2.109448
#1	10.22229	7.020246	.1010898	.0230340	3.667563	10.95941	.0629057
#2	10.27992	7.026305	.0958896	.0234803	3.677139	10.88544	.0618841
#3	10.17799	7.050927	.0977279	.0232145	3.693787	10.82992	.0603213

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-03 Acquired: 12/29/2024 11:33:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8262022	.3314309	.2207476
Stddev	.0052853	.0024245	.0056196
%RSD	.6397154	.7315244	2.545706
#1	.8322347	.3341329	.2269328
#2	.8239867	.3307147	.2159559
#3	.8223851	.3294453	.2193542

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2398.550	30259.52	2333.874	1533.077	1771.092
Stddev	6.757	97.77	24.020	7.414	5.720
%RSD	.2817287	.3231031	1.029184	.4836256	.3229629
#1	2398.130	30289.58	2310.672	1530.751	1769.309
#2	2405.508	30150.24	2332.314	1527.104	1777.491
#3	2392.013	30338.72	2358.635	1541.376	1766.475

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-04 Acquired: 12/29/2024 11:36:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2041845	-.034741	1.191097	.0500619	.0125979	89.74890	1.399241
Stddev	.0100323	.000968	.002437	.0013554	.0035165	.11035	.003002
%RSD	4.913346	2.787452	.2045736	2.707471	27.91363	.1229594	.2145733
#1	.2053656	-.033999	1.189745	.0485577	.0154550	89.85912	1.397490
#2	.2135740	-.034387	1.193910	.0504396	.0136681	89.63841	1.397526
#3	.1936140	-.035837	1.189637	.0511885	.0086706	89.74916	1.402708

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143545	.0069216	188.2120	.1346314	.1184400	.3595652	134.8717
Stddev	.0001034	.0000448	.7719	.0000708	.0001964	.0151714	.3952
%RSD	.7202830	.6475805	.4101341	.0525975	.1658537	4.219363	.2929876
#1	.0144647	.0069717	189.0749	.1346123	.1186465	.3441337	135.0794
#2	.0142596	.0068854	187.5870	.1347097	.1184178	.3600994	134.4160
#3	.0143391	.0069076	187.9742	.1345720	.1182555	.3744623	135.1196

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.781420	43.26953	.2644160	-.001049	1.429844	.2707441	1.591287
Stddev	.011757	.13311	.0006931	.000781	.012640	.0012958	.009991
%RSD	.2458827	.3076205	.2621204	74.47210	.8839800	.4786149	.6278362
#1	4.790240	43.21502	.2644478	-.000267	1.440266	.2695745	1.589586
#2	4.768073	43.17234	.2650926	-.001830	1.433482	.2705207	1.602019
#3	4.785948	43.42124	.2637075	-.001051	1.415785	.2721371	1.582256

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.04544	6.994756	.0953741	.0232887	3.667507	11.09258	.0611440
Stddev	.06138	.015465	.0015332	.0008258	.010578	.10082	.0013514
%RSD	.6110684	.2210907	1.607601	3.545955	.2884149	.9089357	2.210259
#1	10.03087	7.012603	.0971383	.0236617	3.679105	11.20542	.0624249
#2	9.99266	6.986340	.0946204	.0238622	3.665025	11.06098	.0612755
#3	10.11280	6.985324	.0943636	.0223422	3.658392	11.01134	.0597317

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-04 Acquired: 12/29/2024 11:36:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8217319	.3273453	.2205885
Stddev	.0036740	.0022595	.0022922
%RSD	.4471093	.6902546	1.039119
#1	.8174979	.3296867	.2205783
#2	.8240809	.3271716	.2183015
#3	.8236168	.3251776	.2228858

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2421.513	30365.51	2297.902	1532.231	1789.630
Stddev	.417	66.02	16.279	5.637	3.073
%RSD	.0172296	.2174177	.7084332	.3679147	.1716950
#1	2421.986	30425.05	2279.121	1537.460	1790.289
#2	2421.198	30376.97	2307.975	1526.259	1786.281
#3	2421.355	30294.51	2306.610	1532.975	1792.320

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-03LX5 Acquired: 12/29/2024 11:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0396153	.0037532	.2425032	.0010519	-.007270	20.65230	.3208060
Stddev	.0077308	.0016945	.0016763	.0023385	.001932	.05216	.0000261
%RSD	19.51458	45.14822	.6912323	222.3183	26.57506	.2525515	.0081330
#1	.0458452	.0018139	.2438004	.0033193	-.005243	20.62456	.3208353
#2	.0309636	.0049477	.2430986	-.001352	-.009091	20.71246	.3207852
#3	.0420372	.0044981	.2406105	.001188	-.007477	20.61987	.3207975

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032718	.0013322	43.63623	.0311115	.0388662	.0740074	31.41400
Stddev	.0002196	.0000290	.13559	.0004020	.0002756	.0057339	.04904
%RSD	6.710209	2.176545	.3107317	1.292101	.7091948	7.747703	.1560953
#1	.0031680	.0013179	43.79001	.0307399	.0390621	.0726440	31.43810
#2	.0031235	.0013655	43.53383	.0310564	.0389856	.0803001	31.35757
#3	.0035240	.0013130	43.58487	.0315382	.0385510	.0690782	31.44631

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.111819	10.06541	.0525960	-.001157	.3081974	.0516559	.3705992
Stddev	.003574	.05324	.0005850	.000541	.0345606	.0043051	.0012092
%RSD	.3214893	.5289533	1.112277	46.76903	11.21377	8.334146	.3262776
#1	1.111824	10.12685	.0523268	-.001566	.2846352	.0521627	.3697028
#2	1.115390	10.03663	.0521940	-.000543	.3478720	.0556852	.3701204
#3	1.108241	10.03276	.0532671	-.001360	.2920851	.0471199	.3719745

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.203412	1.402539	.0200583	.0062128	.7482006	2.739633	.0124196
Stddev	.013611	.002119	.0013809	.0001844	.0022884	.010500	.0014349
%RSD	.6177219	.1510700	6.884217	2.968381	.3058533	.3832735	11.55307
#1	2.219128	1.402147	.0216127	.0060466	.7485639	2.750530	.0108281
#2	2.195590	1.400644	.0195888	.0064112	.7457523	2.738787	.0136141
#3	2.195517	1.404827	.0189735	.0061805	.7502856	2.729581	.0128167

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-03LX5 Acquired: 12/29/2024 11:40:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2076602	.0743667	.0481129
Stddev	.0021907	.0006185	.0062222
%RSD	1.054940	.8316888	12.93256
#1	.2051703	.0750351	.0409889
#2	.2085185	.0738145	.0508671
#3	.2092917	.0742506	.0524827

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2145.750	27142.63	2014.945	1371.587	1851.443
Stddev	4.281	38.65	4.293	1.958	4.126
%RSD	.1995248	.1423970	.2130688	.1427872	.2228502
#1	2147.208	27138.04	2010.278	1372.730	1853.899
#2	2140.930	27183.37	2018.727	1372.706	1846.680
#3	2149.111	27106.48	2015.831	1369.326	1853.751

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-05 Acquired: 12/29/2024 11:44:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2909902	.0433645	1.207172	.2100527	.1782434	92.14099	4.896455
Stddev	.0020503	.0054247	.004840	.0030079	.0046810	.28232	.016424
%RSD	.7045981	12.50952	.4009360	1.431957	2.626162	.3063962	.3354301
#1	.2933214	.0490185	1.212726	.2067602	.1738457	91.95379	4.888442
#2	.2894668	.0382026	1.203860	.2107417	.1777206	92.00346	4.885575
#3	.2901825	.0428724	1.204929	.2126563	.1831638	92.46572	4.915347

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1007091	.1048927	185.7323	.4961008	1.120336	.7657150	134.5510
Stddev	.0004501	.0002959	.7855	.0011103	.001580	.0083259	.4710
%RSD	.4468978	.2820900	.4229142	.2238078	.1409875	1.087340	.3500732
#1	.1007903	.1045805	185.2150	.4961961	1.120789	.7566350	134.2280
#2	.1002240	.1051691	185.3458	.4971603	1.121640	.7675189	134.3336
#3	.1011131	.1049284	186.6362	.4949459	1.118580	.7729911	135.0915

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.576279	42.67636	1.261334	.0628741	1.418721	1.155685	2.386343
Stddev	.022137	.19690	.001588	.0009024	.041678	.013957	.004100
%RSD	.3969876	.4613862	.1259221	1.435264	2.937689	1.207687	.1718116
#1	5.562737	42.46328	1.262369	.0621500	1.438136	1.162017	2.382688
#2	5.564275	42.71419	1.262128	.0638851	1.370878	1.139684	2.390777
#3	5.601826	42.85159	1.259506	.0625872	1.447149	1.165354	2.385566

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.901121	6.854917	.0893535	.0229302	3.550027	10.86151	.0599425
Stddev	.097054	.011883	.0029697	.0005397	.013342	.02510	.0016371
%RSD	.9802364	.1733468	3.323560	2.353759	.3758339	.2310644	2.731164
#1	9.791627	6.868637	.0920388	.0224981	3.564793	10.85325	.0597981
#2	9.976552	6.847896	.0861640	.0227572	3.546454	10.84159	.0583824
#3	9.935184	6.848218	.0898576	.0235352	3.538836	10.88970	.0616471

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-05 Acquired: 12/29/2024 11:44:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8175352	.3216274	.2184017
Stddev	.0067762	.0019652	.0036824
%RSD	.8288585	.6110159	1.686055
#1	.8191198	.3199448	.2151537
#2	.8101071	.3211502	.2224022
#3	.8233787	.3237873	.2176492

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2374.513	30114.27	2306.263	1520.079	1764.127
Stddev	3.449	93.75	.539	4.452	3.191
%RSD	.1452550	.3113088	.0233857	.2928697	.1808773
#1	2373.301	30123.34	2306.271	1523.120	1760.443
#2	2378.405	30016.32	2306.799	1514.969	1765.909
#3	2371.834	30203.15	2305.720	1522.147	1766.028

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-06 Acquired: 12/29/2024 11:48:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1506460	-.030701	.7489585	.0770290	.0143253	72.42220
Stddev	.0019269	.002943	.0028452	.0094028	.0048466	1.11345
%RSD	1.279114	9.584799	.3798831	12.20677	33.83221	1.537438
#1	.1503742	-.033838	.7517818	.0747842	.0193299	72.81792
#2	.1488693	-.028002	.7490016	.0689518	.0139920	71.16494
#3	.1526944	-.030264	.7460920	.0873510	.0096540	73.28374

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9493367	.0130226	.0086716	481.7246	.1146936	.0984510
Stddev	.0150473	.0002529	.0001664	8.6168	.0009225	.0002155
%RSD	1.585037	1.942244	1.919169	1.788732	.8042786	.2188697
#1	.9565152	.0132454	.0086341	485.8122	.1144479	.0985714
#2	.9320444	.0127477	.0088536	471.8247	.1157140	.0985794
#3	.9594505	.0130747	.0085271	487.5368	.1139188	.0982022

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2856382	181.8383	13.40137	78.10754	.1985743	-.001244
Stddev	.0112424	3.4139	.21261	1.41057	.0003062	.000321
%RSD	3.935889	1.877453	1.586455	1.805940	.1541892	25.84073
#1	.2886133	183.0040	13.46478	78.22133	.1982258	-.001477
#2	.2732075	177.9942	13.16427	76.64352	.1986971	-.000877
#3	.2950939	184.5168	13.57506	79.45777	.1988000	-.001378

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7332545	.1701956	1.511773	9.212932	F 11.72969	.1077072
Stddev	.0183365	.0062454	.011234	.256645	.01362	.0044972
%RSD	2.500706	3.669520	.7431035	2.785707	.1161085	4.175399
#1	.7464003	.1633698	1.504576	9.386948	11.73323	.1089124
#2	.7410557	.1756237	1.524718	8.918185	11.71464	.1027301
#3	.7123073	.1715933	1.506026	9.333663	11.74118	.1114789

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-06 Acquired: 12/29/2024 11:48:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101899	2.464003	10.71233	.0674189	.7708068	.2502141
Stddev	.0003230	.006164	.12045	.0019533	.0129888	.0046643
%RSD	3.169529	.2501784	1.124442	2.897298	1.685094	1.864113
#1	.0103596	2.460123	10.74829	.0663361	.7726979	.2531426
#2	.0103926	2.460775	10.57799	.0696739	.7569761	.2448353
#3	.0098174	2.471111	10.81070	.0662468	.7827464	.2526643

Elem	Li6707
Units	ppm
Avg	.1148092
Stddev	.0022416
%RSD	1.952467
#1	.1167448
#2	.1123531
#3	.1153295

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2555.628	32552.05	2491.136	1636.760	1644.718
Stddev	7.786	83.01	20.473	14.245	4.101
%RSD	.3046472	.2550066	.8218509	.8702973	.2493569
#1	2555.321	32538.76	2481.297	1640.613	1644.890
#2	2563.563	32476.48	2514.672	1620.985	1648.731
#3	2548.000	32640.90	2477.440	1648.682	1640.534

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-07 Acquired: 12/29/2024 11:52:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1399053	-.039014	1.550787	.0964781	.0229710	81.88201	1.266834
Stddev	.0057876	.004590	.009284	.0060588	.0022164	.22857	.002990
%RSD	4.136805	11.76533	.5986339	6.279961	9.648520	.2791469	.2360535
#1	.1350883	-.036718	1.540116	.1022392	.0205727	81.96122	1.270008
#2	.1463255	-.044299	1.555245	.0901601	.0249437	82.06044	1.266425
#3	.1383021	-.036026	1.557002	.0970352	.0233967	81.62437	1.264069

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136341	.0074770	197.1699	.1954228	.0914578	.2338865	194.8979
Stddev	.0002240	.0000890	.3666	.0012136	.0018669	.0111977	.3127
%RSD	1.642678	1.189790	.1859291	.6209956	2.041284	4.787645	.1604584
#1	.0136606	.0073753	197.2824	.1965734	.0893369	.2223685	195.0699
#2	.0133981	.0075400	197.4670	.1941548	.0921840	.2345574	195.0868
#3	.0138437	.0075158	196.7602	.1955400	.0928525	.2447336	194.5369

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.79117	42.28712	.2239713	-.000550	.4559079	.1792324	.8556506
Stddev	.03472	.35762	.0004739	.000131	.0096766	.0030662	.0056965
%RSD	.2198456	.8457011	.2115878	23.84139	2.122491	1.710712	.6657499
#1	15.81838	42.40207	.2234712	-.000568	.4468270	.1808472	.8584598
#2	15.80306	42.57313	.2240291	-.000671	.4660866	.1811537	.8490951
#3	15.75207	41.88616	.2244137	-.000411	.4548101	.1756964	.8593968

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.656791	7.651388	.0972083	.0089956	2.089981	11.05976	.0427431
Stddev	.005789	.033585	.0016159	.0000788	.011271	.02678	.0019756
%RSD	.0668727	.4389362	1.662337	.8764438	.5392690	.2421283	4.622102
#1	8.659120	7.614246	.0989745	.0090857	2.077124	11.08590	.0436382
#2	8.650200	7.660303	.0958039	.0089614	2.094659	11.06099	.0404783
#3	8.661053	7.679616	.0968466	.0089396	2.098159	11.03239	.0441127

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-07 Acquired: 12/29/2024 11:52:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7047171	.0870721	.0794033
Stddev	.0037346	.0003663	.0047643
%RSD	.5299381	.4206651	6.000070
#1	.7038888	.0872035	.0742970
#2	.7014662	.0866583	.0801838
#3	.7087963	.0873546	.0837291

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2632.220	33309.62	2521.388	1673.944	1754.134
Stddev	7.877	152.54	7.600	5.437	6.580
%RSD	.2992546	.4579317	.3014066	.3248112	.3751176
#1	2637.637	33446.29	2519.063	1680.024	1760.421
#2	2635.840	33145.07	2515.221	1672.259	1754.684
#3	2623.184	33337.50	2529.878	1669.548	1747.296

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-08 Acquired: 12/29/2024 11:56:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1085371	-.051557	.3322985	.0989145	.0245282	76.73336	.8309117
Stddev	.0047974	.001750	.0029239	.0060239	.0024778	.88492	.0104337
%RSD	4.420014	3.393382	.8799086	6.090036	10.10186	1.153237	1.255694
#1	.1138520	-.053050	.3303457	.0922470	.0255765	75.86790	.8199012
#2	.1045274	-.051989	.3308897	.1005319	.0263096	77.63653	.8406523
#3	.1072319	-.049632	.3356601	.1039646	.0216986	76.69565	.8321817

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121202	.0051332	58.26791	.1001898	.0680909	.1620809	172.5502
Stddev	.0002791	.0001901	.60170	.0013117	.0011463	.0018453	2.2855
%RSD	2.302717	3.703054	1.032638	1.309219	1.683449	1.138535	1.324518
#1	.0118086	.0052043	57.73490	.1000081	.0675988	.1630042	170.3390
#2	.0123471	.0049178	58.92038	.0989784	.0672729	.1632823	174.9033
#3	.0122050	.0052775	58.14845	.1015829	.0694011	.1599561	172.4081

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.95483	21.50061	.1296703	-.000555	.3150998	.1748555	.4954004
Stddev	.19224	.16799	.0011943	.000705	.0128561	.0088777	.0036835
%RSD	1.285463	.7813096	.9209872	127.0995	4.080013	5.077147	.7435356
#1	14.77118	21.31943	.1294212	.000201	.3144061	.1850414	.4926784
#2	15.15463	21.65120	.1286203	-.001196	.3026046	.1687632	.4995918
#3	14.93866	21.53120	.1309695	-.000669	.3282887	.1707619	.4939309

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.102462	4.727131	.0846772	.0068857	1.391493	11.60939	.0256170
Stddev	.095003	.013332	.0022015	.0008195	.007551	.13423	.0012035
%RSD	1.861899	.2820259	2.599910	11.90092	.5426232	1.156187	4.698006
#1	5.015357	4.716965	.0823297	.0078272	1.390522	11.48268	.0254768
#2	5.203764	4.722202	.0866957	.0063334	1.384475	11.75005	.0268845
#3	5.088265	4.742225	.0850062	.0064964	1.399482	11.59544	.0244898

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-08 Acquired: 12/29/2024 11:56:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7097651	-.030206	.0592102
Stddev	.0074563	.001451	.0027075
%RSD	1.050525	4.804957	4.572625
#1	.7034827	-.028678	.0606433
#2	.7180047	-.031566	.0608998
#3	.7078077	-.030374	.0560874

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2469.130	31291.28	2388.484	1582.570	1850.118
Stddev	3.598	149.28	28.376	10.625	3.617
%RSD	.1457123	.4770666	1.188020	.6713718	.1954969
#1	2472.212	31212.94	2408.028	1584.758	1853.904
#2	2470.000	31197.47	2355.937	1571.022	1849.752
#3	2465.176	31463.42	2401.487	1591.931	1846.698

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-09 Acquired: 12/29/2024 12:00:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0783106	-.046687	.2820330	.0841770	.0189688	63.18860	.8230266
Stddev	.0043245	.004358	.0030026	.0060494	.0022048	.29823	.0042815
%RSD	5.522277	9.334971	1.064629	7.186548	11.62332	.4719753	.5202084
#1	.0786049	-.047024	.2789914	.0836356	.0189275	62.84860	.8181124
#2	.0738465	-.042170	.2821126	.0904790	.0211940	63.31124	.8250158
#3	.0824805	-.050866	.2849950	.0784165	.0167849	63.40597	.8259516

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107361	.0049343	58.85921	.0992838	.0551668	.1177367	159.1171
Stddev	.0001850	.0000905	.09987	.0010674	.0002564	.0099141	.5644
%RSD	1.723003	1.833223	.1696706	1.075066	.4647863	8.420552	.3546949
#1	.0105639	.0048838	58.75494	.1003526	.0549607	.1130373	158.6166
#2	.0107127	.0048804	58.95400	.0982178	.0554539	.1291267	159.0060
#3	.0109317	.0050388	58.86871	.0992810	.0550858	.1110462	159.7288

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.67892	15.97016	.1018087	-.000978	.3438307	.1597800	.4435554
Stddev	.03849	.05390	.0006077	.001392	.0430375	.0076624	.0016902
%RSD	.2813616	.3375209	.5969033	142.3555	12.51707	4.795620	.3810536
#1	13.63509	16.01064	.1019860	-.001393	.3786916	.1636482	.4416411
#2	13.69447	15.99085	.1011320	.000574	.2957283	.1509545	.4441836
#3	13.70720	15.90897	.1023080	-.002115	.3570721	.1647372	.4448416

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.476813	8.141818	.0827563	.0086395	1.286628	10.89814	.0251230
Stddev	.086391	.012430	.0014595	.0004048	.003589	.00769	.0003413
%RSD	2.484785	.1526744	1.763661	4.685660	.2789130	.0705738	1.358474
#1	3.453647	8.137017	.0844122	.0082383	1.290080	10.89207	.0251687
#2	3.404366	8.132504	.0816567	.0086322	1.282917	10.90679	.0247612
#3	3.572425	8.155933	.0821999	.0090479	1.286887	10.89555	.0254392

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-09 Acquired: 12/29/2024 12:00:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8158000	-.021780	.0442469
Stddev	.0060012	.000612	.0011987
%RSD	.7356262	2.811657	2.709055
#1	.8088770	-.021683	.0443917
#2	.8195236	-.021222	.0429824
#3	.8189994	-.022435	.0453666

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2481.933	31434.21	2390.203	1596.021	1844.354
Stddev	4.137	45.07	2.801	9.810	3.275
%RSD	.1666879	.1433859	.1171926	.6146615	.1775942
#1	2486.681	31426.94	2388.252	1598.708	1846.931
#2	2479.103	31482.48	2393.413	1604.208	1845.463
#3	2480.016	31393.22	2388.945	1585.148	1840.668

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-10 Acquired: 12/29/2024 12:04:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1356070	-.041126	2.009774	.0758896	.0148933	69.97983
Stddev	.0047041	.002819	.004340	.0016949	.0049491	1.14955
%RSD	3.468944	6.853879	.2159289	2.233426	33.23008	1.642684
#1	.1364686	-.044377	2.005182	.0777305	.0166081	70.36492
#2	.1305316	-.039356	2.010334	.0755447	.0093149	68.68718
#3	.1398207	-.039646	2.013807	.0743936	.0187569	70.88739

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.612992	.0125466	.0093784	102.5768	.1386867	.0605495
Stddev	.029241	.0000763	.0000389	1.7090	.0009636	.0006172
%RSD	1.812831	.6081813	.4143278	1.666066	.6948052	1.019330
#1	1.626660	.0124910	.0093390	103.5528	.1381332	.0607594
#2	1.579420	.0125152	.0094166	100.6035	.1381276	.0610344
#3	1.632896	.0126336	.0093796	103.5742	.1397994	.0598547

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3545577	152.9395	7.940535	32.63469	.2321507	-.000157
Stddev	.0112460	2.7859	.126480	.53694	.0004438	.001184
%RSD	3.171836	1.821571	1.592842	1.645290	.1911863	755.0247
#1	.3579724	154.2618	7.998844	32.94091	.2325906	.000307
#2	.3420001	149.7387	7.795418	32.01470	.2317030	-.001502
#3	.3637006	154.8180	8.027342	32.94845	.2321586	.000725

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4883876	.1890152	2.029590	8.708387	F 16.69263	.1048719
Stddev	.0240571	.0073100	.006186	.232824	.05033	.0029434
%RSD	4.925812	3.867435	.3047739	2.673556	.3015175	2.806677
#1	.5156372	.1906299	2.036305	8.946290	16.66191	.1046483
#2	.4700898	.1810328	2.024124	8.480999	16.66526	.1020467
#3	.4794359	.1953828	2.028342	8.697873	16.75071	.1079208

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-10 Acquired: 12/29/2024 12:04:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105792	5.356806	10.50782	.1223048	.9865862	.1170030
Stddev	.0007032	.015617	.06767	.0015312	.0142074	.0027316
%RSD	6.647193	.2915328	.6439816	1.251913	1.440061	2.334602
#1	.0105519	5.347874	10.55568	.1217188	.9911989	.1186685
#2	.0098900	5.347706	10.43040	.1211531	.9706455	.1138506
#3	.0112957	5.374839	10.53739	.1240424	.9979141	.1184899

Elem	Li6707
Units	ppm
Avg	.1001253
Stddev	.0034624
%RSD	3.458098
#1	.0993228
#2	.0971346
#3	.1039185

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2536.370	32256.03	2441.518	1624.310	1811.219
Stddev	5.855	139.49	20.338	8.419	5.130
%RSD	.2308443	.4324524	.8330001	.5183194	.2832166
#1	2541.892	32271.59	2434.089	1623.778	1816.721
#2	2530.231	32387.09	2464.526	1632.982	1806.568
#3	2536.988	32109.41	2425.940	1616.169	1810.369

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-11 Acquired: 12/29/2024 12:07:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2208109	-.051942	2.200420	.0943984	.0213237	81.49054
Stddev	.0055251	.006386	.003393	.0066766	.0016115	.33160
%RSD	2.502190	12.29396	.1541975	7.072832	7.557491	.4069139
#1	.2231831	-.048853	2.204196	.0942412	.0197088	81.87129
#2	.2144958	-.047688	2.199436	.0878018	.0229318	81.33516
#3	.2247537	-.059285	2.197628	.1011523	.0213304	81.26516

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.835196	.0147350	.0098110	132.7356	.1394305	.0701949
Stddev	.010173	.0002263	.0000427	.7576	.0006787	.0004804
%RSD	.5543038	1.535834	.4353604	.5707892	.4867989	.6843942
#1	1.846648	.0148500	.0098074	133.5474	.1402125	.0698251
#2	1.827207	.0148807	.0098555	132.6121	.1389947	.0707379
#3	1.831733	.0144743	.0097703	132.0472	.1390843	.0700217

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4444893	184.9330	11.24992	32.63292	.2375076	.0006993
Stddev	.0043726	.9437	.05686	.22296	.0009058	.0011630
%RSD	.9837272	.5102789	.5054306	.6832509	.3813773	166.2977
#1	.4489375	185.9998	11.31413	32.87559	.2377356	.0019076
#2	.4401965	184.2072	11.22966	32.43711	.2365096	-.000412
#3	.4443339	184.5921	11.20596	32.58606	.2382777	.000603

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7475362	.2666485	1.344976	7.745261	F 17.01683	.1093186
Stddev	.0493905	.0020569	.008048	.088465	.03183	.0015070
%RSD	6.607103	.7713766	.5983611	1.142179	.1870452	1.378533
#1	.7837501	.2676071	1.336197	7.801672	16.99545	.1101614
#2	.7675846	.2680510	1.346727	7.790809	17.05341	.1075787
#3	.6912738	.2642873	1.352004	7.643304	17.00162	.1102155

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-11 Acquired: 12/29/2024 12:07:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103132	4.002423	11.02966	.1509072	.9497779	.2045503
Stddev	.0009017	.000780	.05538	.0039746	.0035997	.0006730
%RSD	8.742931	.0194886	.5020833	2.633833	.3790025	.3290228
#1	.0107023	4.002232	11.09063	.1470118	.9477215	.2050151
#2	.0109551	4.001756	11.01587	.1549566	.9539344	.2048572
#3	.0092824	4.003281	10.98248	.1507532	.9476779	.2037785

Elem	Li6707
Units	ppm
Avg	.1348568
Stddev	.0019806
%RSD	1.468670
#1	.1371382
#2	.1338544
#3	.1335778

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2611.929	32963.90	2502.931	1663.587	1824.487
Stddev	6.130	81.17	14.765	1.838	3.361
%RSD	.2346951	.2462408	.5899225	.1105088	.1841960
#1	2605.831	32870.22	2485.949	1664.859	1820.872
#2	2618.091	33008.00	2510.109	1664.423	1827.515
#3	2611.866	33013.46	2512.734	1661.479	1825.074

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV040 Acquired: 12/29/2024 12:20:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV040 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.017978	4.741310	24.44424	5.066486	4.999728	410.4564	10.22416
Stddev	.021263	.010338	.05573	.012093	.012720	2.1022	.05333
%RSD	.4237427	.2180497	.2279698	.2386918	.2544091	.5121497	.5216283
#1	4.994864	4.745690	24.49635	5.079336	4.986186	408.6241	10.18848
#2	5.022363	4.729502	24.38549	5.064794	5.001574	409.9937	10.19853
#3	5.036707	4.748737	24.45089	5.055327	5.011424	412.7513	10.28547

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5191936	2.466421	403.3511	15.19199	2.382794	14.79323	406.6497
Stddev	.0032923	.003727	1.4876	.04785	.005850	.05185	2.1928
%RSD	.6341220	.1510991	.3688163	.3149483	.2455055	.3505036	.5392261
#1	.5158199	2.470464	402.3520	15.16619	2.389427	14.74572	404.9235
#2	.5223980	2.463122	402.6405	15.24720	2.378371	14.78543	405.9087
#3	.5193628	2.465678	405.0607	15.16257	2.380585	14.84854	409.1170

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.65055	401.8042	2.483706	1.258430	422.2192	2.472441	14.93592
Stddev	.05505	1.6691	.003482	.006846	4.6535	.007653	.10504
%RSD	.3757724	.4154005	.1401813	.5439904	1.102143	.3095206	.7032875
#1	14.61476	400.7499	2.487708	1.253640	424.0913	2.463616	14.92657
#2	14.62296	400.9341	2.481379	1.266271	416.9213	2.476463	15.04533
#3	14.71395	403.7286	2.482030	1.255380	425.6451	2.477243	14.83587

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.9298	4.955085	5.049592	4.974813	5.005398	4.911621	4.944573
Stddev	.6521	.003986	.030792	.006898	.017443	.026935	.012071
%RSD	.4320489	.0804437	.6097944	.1386615	.3484835	.5484019	.2441333
#1	150.3215	4.959079	5.014346	4.970503	5.017267	4.886936	4.954764
#2	150.8497	4.951107	5.071267	4.971166	4.985371	4.940349	4.931242
#3	151.6183	4.955068	5.063165	4.982769	5.013556	4.907578	4.947714

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV040 Acquired: 12/29/2024 12:20:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV040 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.989205	4.698872	5.192508
Stddev	.025974	.018020	.039395
%RSD	.5205976	.3834926	.7586818
#1	4.966432	4.679896	5.156576
#2	4.983689	4.700965	5.186315
#3	5.017494	4.715753	5.234632

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1804.058	23650.44	1869.792	1140.590	1537.886
Stddev	2.849	18.90	5.814	3.714	4.016
%RSD	.1579319	.0799075	.3109691	.3256192	.2611532
#1	1801.015	23671.94	1876.439	1140.953	1533.368
#2	1804.498	23636.44	1865.650	1136.709	1539.239
#3	1806.662	23642.93	1867.287	1144.110	1541.051

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB040 Acquired: 12/29/2024 12:24:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB040 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005652	.0003731	.0044236	-.001528	.0002508	.0942839
Stddev	.001549	.0020353	.0015731	.004629	.0028090	.0199500
%RSD	27.40924	545.4483	35.56287	303.0079	1120.126	21.15952
#1	-.003863	.0016676	.0059182	-.006645	-.001892	.1017894
#2	-.006546	-.001973	.0045703	-.000304	-.000787	.0716697
#3	-.006547	.001425	.0027822	.002366	.003431	.1093926

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002900	.0001811	.0003207	.0465001	.0017992	.0005077
Stddev	.0006720	.0000889	.0000981	.0454341	.0003589	.0001531
%RSD	231.7344	49.11735	30.57918	97.70759	19.94788	30.15124
#1	-.000280	.0001684	.0002099	.0928782	.0017697	.0004036
#2	.000118	.0000992	.0003962	.0020728	.0021720	.0006835
#3	.001031	.0002757	.0003561	.0445492	.0014560	.0004360

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009646	.0523445	.0018692	-.005832	.0006835	-.000398
Stddev	.006300	.0352522	.0012603	.112774	.0001819	.000161
%RSD	65.31356	67.34654	67.42506	1933.691	26.60959	40.32345
#1	-.002390	.0864954	.0022597	-.075648	.0004907	-.000520
#2	-.013729	.0544525	.0028881	-.066120	.0008519	-.000216
#3	-.012819	.0160856	.0004599	.124272	.0007079	-.000459

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0778930	-.019712	.0029607	-.134630	.0055497	.0137790
Stddev	.0335216	.016198	.0002217	.076402	.0009266	.0029618
%RSD	43.03545	82.17226	7.488282	56.74968	16.69638	21.49528
#1	.1114992	-.012023	.0029129	-.050945	.0045108	.0149023
#2	.0444566	-.038323	.0032024	-.200656	.0058475	.0104198
#3	.0777233	-.008791	.0027668	-.152289	.0062908	.0160147

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: CCB040 Acquired: 12/29/2024 12:24:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB040 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012940	.0018048	.0030774	.0002450	.0000911	.0008393
Stddev	.0005717	.0013499	.0010730	.0014280	.0013472	.0003890
%RSD	44.18017	74.79184	34.86762	582.9766	1478.217	46.35010
#1	.0016952	.0028922	.0028455	.0018641	.0008579	.0010242
#2	.0015473	.0022282	.0042474	-.000294	.0008800	.0003923
#3	.0006394	.0002940	.0021393	-.000835	-.001464	.0011013

Elem	Li6707
Units	ppm
Avg	F .0327141
Stddev	.0073782
%RSD	22.55347
#1	.0272610
#2	.0297719
#3	.0411094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2046.745	26006.62	1915.385	1311.553	1850.856
Stddev	1.281	130.63	11.976	7.599	2.691
%RSD	.0625717	.5022876	.6252666	.5793615	.1454090
#1	2045.282	26052.88	1922.458	1318.971	1850.600
#2	2047.287	26107.82	1922.140	1311.902	1848.302
#3	2047.665	25859.16	1901.558	1303.786	1853.666

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-12 Acquired: 12/29/2024 12:28:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2229142	-.050346	1.576592	.0933495	.0162739	71.99741
Stddev	.0062047	.000455	.016514	.0076317	.0016466	1.53945
%RSD	2.783464	.9028531	1.047438	8.175412	10.11780	2.138200
#1	.2296448	-.050746	1.593384	.0891642	.0153818	70.97148
#2	.2174222	-.050440	1.560371	.1021582	.0152660	73.76756
#3	.2216755	-.049852	1.576021	.0887261	.0181740	71.25320

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.634250	.0131783	.0083503	110.0502	.1405146	.0597847
Stddev	.036312	.0002105	.0001416	2.2281	.0007561	.0031906
%RSD	2.221923	1.597715	1.695857	2.024613	.5381139	5.336741
#1	1.614884	.0130005	.0084765	108.7129	.1397969	.0616304
#2	1.676140	.0134108	.0081971	112.6223	.1404429	.0561006
#3	1.611727	.0131237	.0083773	108.8154	.1413041	.0616232

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4763933	180.4047	12.69150	23.72372	.1794629	.0001087
Stddev	.0166729	4.3242	.29029	.52118	.0023176	.0001205
%RSD	3.499827	2.396960	2.287278	2.196868	1.291422	110.7878
#1	.4675572	177.9621	12.49665	23.40150	.1808813	.0000815
#2	.4956245	185.3975	13.02513	24.32501	.1767883	.0000042
#3	.4659981	177.8545	12.55273	23.44464	.1807190	.0002405

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7071274	.2041940	1.075063	7.801339	F 11.68715	.1073815
Stddev	.0116738	.0216603	.008294	.314953	.10919	.0070490
%RSD	1.650873	10.60773	.7715106	4.037163	.9342481	6.564491
#1	.7076427	.1942753	1.070817	7.717861	11.78156	.1043798
#2	.7185351	.2290376	1.069751	8.149621	11.56758	.1154345
#3	.6952046	.1892690	1.084620	7.536535	11.71231	.1023300

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-12 Acquired: 12/29/2024 12:28:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116648	3.003090	11.32518	.4206415	.8102112	.1023988
Stddev	.0006004	.023432	.13790	.0075902	.0209325	.0019297
%RSD	5.147312	.7802612	1.217654	1.804445	2.583588	1.884518
#1	.0112754	3.025428	11.23142	.4255693	.7956103	.1006205
#2	.0113627	2.978699	11.48353	.4119007	.8341934	.1044507
#3	.0123562	3.005142	11.26061	.4244547	.8008299	.1021251

Elem	Li6707
Units	ppm
Avg	.1161115
Stddev	.0005285
%RSD	.4551635
#1	.1163013
#2	.1155143
#3	.1165189

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2590.890	32997.86	2462.493	1664.110	1833.882
Stddev	19.111	178.37	29.834	12.293	14.367
%RSD	.7376309	.5405498	1.211551	.7386996	.7834326
#1	2575.005	33087.89	2488.459	1672.506	1821.756
#2	2612.099	33113.28	2429.903	1669.823	1849.750
#3	2585.565	32792.42	2469.116	1650.000	1830.140

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-13 Acquired: 12/29/2024 12:32:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1883002	-.040943	1.017661	.1144745	.0267535	85.04222
Stddev	.0055495	.003819	.005133	.0009584	.0027136	.54597
%RSD	2.947143	9.328643	.5043548	.8372253	10.14311	.6419982
#1	.1836724	-.040259	1.013087	.1155631	.0236705	84.45916
#2	.1944526	-.045058	1.016684	.1141029	.0278100	85.12612
#3	.1867754	-.037512	1.023212	.1137576	.0287799	85.54139

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.010526	.0144119	.0106895	73.27581	.1281373	.0812271
Stddev	.013406	.0001707	.0001554	.29687	.0003384	.0008359
%RSD	.6667753	1.184257	1.453447	.4051368	.2641079	1.029124
#1	1.995894	.0142156	.0105131	72.93628	.1281959	.0803449
#2	2.013466	.0145253	.0108062	73.40472	.1284426	.0820074
#3	2.022217	.0144947	.0107490	73.48643	.1277734	.0813291

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3478879	202.6567	22.29902	26.77846	.1930635	.0015036
Stddev	.0023715	1.4913	.14872	.21578	.0014642	.0006035
%RSD	.6816893	.7358638	.6669271	.8058007	.7584015	40.13820
#1	.3484696	201.0979	22.13458	26.57106	.1914525	.0008180
#2	.3499144	202.8025	22.33838	26.76256	.1943134	.0017381
#3	.3452796	204.0698	22.42409	27.00175	.1934246	.0019547

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4663299	.1907208	.7617234	8.271652	F 10.85481	.1123801
Stddev	.0079304	.0069096	.0029957	.067733	.08182	.0008359
%RSD	1.700591	3.622901	.3932783	.8188520	.7537749	.7437808
#1	.4601366	.1942421	.7611244	8.229903	10.76197	.1115963
#2	.4752680	.1951604	.7649734	8.235252	10.88605	.1122843
#3	.4635850	.1827599	.7590725	8.349802	10.91640	.1132598

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-13 Acquired: 12/29/2024 12:32:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0171122	2.674240	11.31797	.1086617	.6111856	-.002182
Stddev	.0004976	.017168	.07767	.0017665	.0029602	.000680
%RSD	2.907840	.6419611	.6862458	1.625649	.4843378	31.16227
#1	.0165390	2.655129	11.23580	.1107006	.6078228	-.001841
#2	.0173652	2.688355	11.39017	.1076932	.6123367	-.001740
#3	.0174325	2.679238	11.32794	.1075914	.6133974	-.002965

Elem	Li6707
Units	ppm
Avg	.1159671
Stddev	.0001855
%RSD	.1599194
#1	.1161745
#2	.1159092
#3	.1158174

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2835.866	35737.28	2666.389	1807.860	1830.938
Stddev	2.326	125.70	7.883	2.238	5.377
%RSD	.0820055	.3517352	.2956322	.1237681	.2936658
#1	2838.549	35592.63	2675.462	1806.265	1837.144
#2	2834.624	35799.23	2662.487	1806.898	1827.696
#3	2834.425	35819.97	2661.218	1810.418	1827.973

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-14 Acquired: 12/29/2024 12:36:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1654765	-.044725	.5028190	.1088158	.0245190	80.99432	1.624035
Stddev	.0072152	.005213	.0006998	.0015256	.0047005	.13111	.001587
%RSD	4.360244	11.65668	.1391799	1.401991	19.17090	.1618768	.0977082
#1	.1572001	-.038978	.5020259	.1070748	.0193017	80.96063	1.624352
#2	.1687875	-.046046	.5030815	.1094541	.0258313	81.13899	1.625439
#3	.1704419	-.049151	.5033497	.1099186	.0284238	80.88335	1.622313

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130234	.0095557	50.12590	.1122853	.0694918	.2538386	181.3376
Stddev	.0001351	.0000850	.10515	.0007742	.0005405	.0028393	.0199
%RSD	1.037472	.8897427	.2097753	.6895293	.7777852	1.118542	.0109724
#1	.0131793	.0095406	50.04488	.1120880	.0698245	.2521742	181.3146
#2	.0129411	.0096473	50.24472	.1116288	.0697826	.2571170	181.3492
#3	.0129497	.0094793	50.08809	.1131391	.0688681	.2522246	181.3490

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.27685	21.29329	.1782579	.0012532	.5603446	.1692876	.6335748
Stddev	.02207	.17103	.0007614	.0006293	.0121093	.0035586	.0028067
%RSD	.0990867	.8031933	.4271242	50.21685	2.161042	2.102106	.4429975
#1	22.30134	21.49019	.1785404	.0016940	.5521508	.1678311	.6341353
#2	22.27075	21.18177	.1773956	.0005325	.5546292	.1666883	.6305301
#3	22.25847	21.20789	.1788376	.0015331	.5742538	.1733434	.6360590

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.074919	9.219823	.1028195	.0173625	2.270185	10.91722	.0620210
Stddev	.039054	.008737	.0011484	.0003416	.010350	.01332	.0011870
%RSD	.5520024	.0947595	1.116949	1.967389	.4559180	.1220002	1.913795
#1	7.079111	9.211856	.1027317	.0176926	2.259595	10.90579	.0606593
#2	7.111707	9.229166	.1017174	.0170104	2.280278	10.91403	.0628367
#3	7.033938	9.218447	.1040093	.0173846	2.270682	10.93185	.0625670

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-14 Acquired: 12/29/2024 12:36:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5250930	-.019387	.0950496
Stddev	.0040841	.000805	.0027479
%RSD	.7777963	4.152552	2.891071
#1	.5222942	-.019757	.0945675
#2	.5297796	-.018463	.0925746
#3	.5232053	-.019941	.0980067

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2834.494	35512.94	2700.860	1799.428	1825.208
Stddev	4.265	96.76	7.849	8.303	1.921
%RSD	.1504556	.2724690	.2905979	.4614503	.1052515
#1	2830.725	35449.27	2692.435	1789.841	1823.926
#2	2833.634	35465.26	2707.965	1804.333	1824.280
#3	2839.123	35624.29	2702.181	1804.110	1827.417

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-15 Acquired: 12/29/2024 12:39:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0872317	-.017822	.2505435	.0554820	.0097729	54.47388	1.081400
Stddev	.0059079	.001334	.0012624	.0036141	.0008148	.03191	.001704
%RSD	6.772633	7.482441	.5038484	6.513962	8.337772	.0585877	.1575693
#1	.0940120	-.017455	.2505176	.0594940	.0104094	54.50536	1.081431
#2	.0844927	-.019301	.2518186	.0524813	.0088546	54.44155	1.079681
#3	.0831904	-.016711	.2492943	.0544708	.0100548	54.47473	1.083088

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095186	.0035947	155.1269	.0824498	.0599364	.1481724	137.2677
Stddev	.0001730	.0002124	.2193	.0007891	.0002740	.0059850	.3113
%RSD	1.817106	5.908654	.1413687	.9571240	.4571457	4.039186	.2268132
#1	.0093432	.0033870	155.3753	.0816599	.0602493	.1521752	137.2718
#2	.0096890	.0035857	154.9601	.0832382	.0598201	.1510499	136.9543
#3	.0095235	.0038115	155.0452	.0824512	.0597397	.1412922	137.5769

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.854893	48.42146	.1261493	.0000673	.5554256	.1361247	.3717808
Stddev	.007430	.18262	.0006907	.0007170	.0145157	.0031542	.0023923
%RSD	.0753902	.3771562	.5474883	1065.991	2.613444	2.317147	.6434807
#1	9.849871	48.21108	.1269463	.0003647	.5482342	.1360755	.3717122
#2	9.851381	48.51414	.1257261	.0005877	.5721331	.1329954	.3694235
#3	9.863428	48.53917	.1257756	-.000751	.5459095	.1393032	.3742067

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.731612	6.735057	.0810287	.0053199	1.062350	10.10093	.0299975
Stddev	.015747	.007589	.0005728	.0002946	.006023	.06362	.0004836
%RSD	.3327942	.1126726	.7068883	5.537482	.5669180	.6298588	1.611951
#1	4.713824	6.732183	.0804799	.0055712	1.056149	10.13099	.0294753
#2	4.737242	6.729325	.0809834	.0049957	1.062723	10.14394	.0300875
#3	4.743769	6.743662	.0816228	.0053927	1.068177	10.02784	.0304297

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-15 Acquired: 12/29/2024 12:39:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKS3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7347183	.0302813	.0665386
Stddev	.0066195	.0004665	.0037204
%RSD	.9009528	1.540415	5.591369
#1	.7280925	.0303618	.0654745
#2	.7347308	.0307022	.0634662
#3	.7413314	.0297798	.0706751

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2505.632	31744.33	2416.190	1593.502	1782.319
Stddev	6.575	70.43	13.596	5.372	5.455
%RSD	.2624086	.2218653	.5626874	.3371236	.3060645
#1	2511.767	31678.33	2411.106	1590.102	1787.139
#2	2498.691	31736.17	2405.869	1599.695	1776.397
#3	2506.437	31818.48	2431.595	1590.710	1783.422

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-16 Acquired: 12/29/2024 12:43:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1067388	-.028978	1.347296	.0644654	.0128059	58.63271
Stddev	.0029954	.006436	.008161	.0024666	.0031520	.18204
%RSD	2.806329	22.21160	.6057674	3.826266	24.61344	.3104671
#1	.1077529	-.025744	1.338392	.0617005	.0149157	58.68121
#2	.1090956	-.036390	1.354422	.0652558	.0143195	58.78559
#3	.1033680	-.024799	1.349074	.0664401	.0091827	58.43134

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.290533	.0107326	.0082643	159.2148	.1480958	.0554935
Stddev	.005793	.0001053	.0000626	.2961	.0008176	.0011544
%RSD	.4488670	.9811336	.7568395	.1859546	.5520524	2.080325
#1	1.294732	.0107627	.0082677	159.3949	.1475851	.0546887
#2	1.292942	.0108196	.0082001	159.3764	.1490388	.0568162
#3	1.283924	.0106156	.0083250	158.8731	.1476636	.0549755

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3051429	143.9264	7.611971	33.79656	.1622576	.0009066
Stddev	.0045181	.3999	.023174	.23449	.0006008	.0010121
%RSD	1.480635	.2778484	.3044450	.6938168	.3702592	111.6412
#1	.3006342	144.0968	7.624842	33.98386	.1620341	.0012271
#2	.3096703	144.2128	7.625852	33.87224	.1629381	-.000227
#3	.3051242	143.4695	7.585218	33.53358	.1618006	.001720

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4472532	.1531866	1.603527	11.48887	F 15.43443	.1076470
Stddev	.0216298	.0107417	.000629	.21239	.08482	.0015750
%RSD	4.836153	7.012163	.0392333	1.848670	.5495380	1.463081
#1	.4714151	.1504422	1.602813	11.52683	15.36786	.1064249
#2	.4406499	.1440833	1.603770	11.26006	15.52993	.1094244
#3	.4296947	.1650342	1.603999	11.67972	15.40551	.1070917

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-16 Acquired: 12/29/2024 12:43:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087183	4.790827	11.05230	.1262703	.8604264	.1064447
Stddev	.0007156	.017839	.06528	.0018701	.0075712	.0002531
%RSD	8.208653	.3723676	.5906254	1.481028	.8799327	.2377405
#1	.0084582	4.787857	11.12147	.1282015	.8691613	.1064580
#2	.0095276	4.809966	10.99177	.1244680	.8563727	.1061853
#3	.0081691	4.774659	11.04368	.1261415	.8557452	.1066909

Elem	Li6707
Units	ppm
Avg	.0767609
Stddev	.0031321
%RSD	4.080292
#1	.0734479
#2	.0796735
#3	.0771612

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2433.719	30785.40	2356.889	1556.681	1798.086
Stddev	12.452	158.55	17.296	5.435	11.078
%RSD	.5116614	.5150209	.7338370	.3491403	.6160849
#1	2446.777	30736.36	2337.583	1555.417	1808.997
#2	2421.977	30657.17	2362.114	1551.990	1786.849
#3	2432.401	30962.68	2370.970	1562.637	1798.413

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-17 Acquired: 12/29/2024 12:47:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1342784	-.037180	1.697102	.0764161	.0133778	66.81106
Stddev	.0033651	.001202	.002356	.0031530	.0027012	.87317
%RSD	2.506061	3.233935	.1388024	4.126126	20.19151	1.306931
#1	.1375294	-.038443	1.697013	.0736804	.0125273	67.15000
#2	.1308098	-.036049	1.694792	.0757035	.0112042	67.46396
#3	.1344962	-.037049	1.699501	.0798644	.0164018	65.81924

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.490218	.0120416	.0098429	157.1646	.1833571	.0602746
Stddev	.020193	.0002430	.0000759	2.0218	.0068800	.0010758
%RSD	1.355029	2.018128	.7706519	1.286432	3.752259	1.784804
#1	1.501040	.0121801	.0097729	158.3321	.1912978	.0594183
#2	1.502693	.0121838	.0098323	158.3317	.1791769	.0599235
#3	1.466921	.0117610	.0099235	154.8300	.1795967	.0614821

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3698778	159.9773	8.443056	37.99480	.2017005	.0006117
Stddev	.0090816	2.2303	.115171	.46263	.0003219	.0020308
%RSD	2.455303	1.394115	1.364090	1.217610	.1596007	331.9844
#1	.3594307	161.3264	8.505751	38.13332	.2016707	-.000579
#2	.3758880	161.2025	8.513279	38.37235	.2013945	.002957
#3	.3743148	157.4030	8.310140	37.47874	.2020362	-.000542

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5281262	.1699769	1.812147	11.41601	F 18.94652	.1123456
Stddev	.0147186	.0098307	.060736	.12893	.01857	.0019976
%RSD	2.786938	5.783579	3.351621	1.129345	.0980072	1.778110
#1	.5427398	.1630233	1.881829	11.43100	18.94749	.1123866
#2	.5283340	.1812241	1.770438	11.53678	18.96458	.1143224
#3	.5133049	.1656833	1.784173	11.28024	18.92748	.1103278

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-17 Acquired: 12/29/2024 12:47:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088746	4.442074	10.89926	.1518324	.9060320	.1281303
Stddev	.0007549	.000630	.17959	.0009279	.0110530	.0010014
%RSD	8.506592	.0141929	1.647747	.6111559	1.219939	.7815156
#1	.0080693	4.441384	10.99746	.1520624	.9102435	.1286197
#2	.0089883	4.442217	11.00833	.1526236	.9143601	.1287929
#3	.0095662	4.442621	10.69198	.1508110	.8934923	.1269784

Elem	Li6707
Units	ppm
Avg	.0886132
Stddev	.0029296
%RSD	3.306099
#1	.0909434
#2	.0895718
#3	.0853243

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2481.376	31004.32	2457.377	1565.621	1783.401
Stddev	2.463	1025.72	41.437	50.981	1.013
%RSD	.0992710	3.308327	1.686216	3.256295	.0568295
#1	2481.202	29824.43	2440.134	1506.807	1784.531
#2	2479.005	31504.72	2427.346	1597.211	1783.097
#3	2483.922	31683.80	2504.651	1592.846	1782.574

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-18 Acquired: 12/29/2024 12:51:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1809183	-.056287	23.10486	.1040864	-.004216	77.83528
Stddev	.0009398	.005050	.00550	.0004831	.003106	.05782
%RSD	.5194698	8.971855	.0237842	.4641127	73.67255	.0742840
#1	.1814019	-.061914	23.10039	.1037460	-.000756	77.81554
#2	.1815178	-.054799	23.11099	.1046393	-.005128	77.78992
#3	.1798351	-.052148	23.10320	.1038740	-.006764	77.90039

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.692456	.0144818	.0100296	143.0889	.1688467	.0677576
Stddev	.001319	.0000988	.0001055	.2282	.0007353	.0001514
%RSD	.0779398	.6820045	1.052114	.1594833	.4354771	.2234355
#1	1.692312	.0145948	.0101090	142.8722	.1681287	.0679119
#2	1.691214	.0144383	.0099098	143.3271	.1695981	.0677516
#3	1.693841	.0144123	.0100700	143.0676	.1688134	.0676093

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4901691	201.1417	11.35914	37.10639	.1979764	.0006276
Stddev	.0014354	.5577	.01034	.08809	.0001674	.0009386
%RSD	.2928410	.2772861	.0910305	.2373907	.0845312	149.5659
#1	.4915732	200.5667	11.35315	37.00573	.1979224	.0000372
#2	.4902296	201.1780	11.35318	37.14408	.1978428	.0001356
#3	.4887043	201.6804	11.37108	37.16936	.1981642	.0017099

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5709787	.2084003	1.450122	11.64451	F 19.40464	.1226183
Stddev	.0204597	.0102422	.002491	.11262	.02348	.0025880
%RSD	3.583264	4.914686	.1717634	.9671690	.1210092	2.110586
#1	.5797219	.1971225	1.448661	11.62389	19.42038	.1196309
#2	.5856140	.2171234	1.452997	11.76602	19.37765	.1241764
#3	.5476001	.2109548	1.448706	11.54362	19.41589	.1240476

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-18 Acquired: 12/29/2024 12:51:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081041	3.591261	11.16418	4.518022	.9262273	.0835145
Stddev	.0001912	.019050	.04277	.002407	.0044602	.0007453
%RSD	2.359631	.5304663	.3831391	.0532858	.4815457	.8924571
#1	.0083249	3.583060	11.21249	4.516427	.9298035	.0842706
#2	.0079948	3.577685	11.13111	4.516848	.9276488	.0834925
#3	.0079926	3.613039	11.14895	4.520791	.9212296	.0827804

Elem	Li6707
Units	ppm
Avg	.1049750
Stddev	.0007591
%RSD	.7231540
#1	.1041477
#2	.1051376
#3	.1056396

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2579.953	32697.21	2433.473	1639.530	1771.448
Stddev	6.169	131.71	4.173	12.056	3.572
%RSD	.2391066	.4028266	.1714927	.7353390	.2016496
#1	2572.842	32709.83	2429.023	1641.468	1767.501
#2	2583.149	32559.63	2434.097	1626.622	1772.384
#3	2583.869	32822.15	2437.299	1650.499	1774.459

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-19 Acquired: 12/29/2024 12:55:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1340549	-.045234	.3882660	.0814560	.0201787	74.84162
Stddev	.0047642	.006494	.0009022	.0024428	.0022109	.29476
%RSD	3.553923	14.35579	.2323543	2.998892	10.95669	.3938464
#1	.1359292	-.052665	.3884484	.0790727	.0196065	74.50792
#2	.1286386	-.042388	.3890630	.0839542	.0226195	74.95046
#3	.1375969	-.040649	.3872866	.0813411	.0183102	75.06649

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.163615	.0129414	.0056906	345.6504	.1214987	.0653973
Stddev	.005602	.0001103	.0000633	1.1406	.0005630	.0007974
%RSD	.4813916	.8522290	1.112498	.3299898	.4633371	1.219263
#1	1.158543	.0130264	.0056457	344.3839	.1220879	.0650100
#2	1.169627	.0129810	.0057630	345.9710	.1209663	.0663143
#3	1.162675	.0128168	.0056630	346.5965	.1214420	.0648675

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1594089	191.1283	9.805713	86.08434	.1617276	-.003846
Stddev	.0011037	.3813	.034213	.30435	.0006513	.000391
%RSD	.6923563	.1995113	.3489040	.3535430	.4026867	10.16467
#1	.1604961	190.6892	9.767086	85.78747	.1613879	-.003648
#2	.1582894	191.3193	9.817854	86.06992	.1624785	-.003593
#3	.1594413	191.3764	9.832200	86.39564	.1613165	-.004296

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6706738	.1950146	.5005641	8.269493	F 10.12547	.1085548
Stddev	.0140200	.0088956	.0022698	.029650	.05292	.0009908
%RSD	2.090438	4.561507	.4534443	.3585517	.5226723	.9127079
#1	.6799300	.2045844	.5008107	8.238920	10.09783	.1078157
#2	.6545434	.1869977	.4981812	8.298126	10.18649	.1096806
#3	.6775479	.1934618	.5027006	8.271435	10.09209	.1081680

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5054-19 Acquired: 12/29/2024 12:55:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047903	1.522854	10.28942	.0804056	1.002363	.0833732
Stddev	.0006507	.016347	.02594	.0016965	.010672	.0002739
%RSD	13.58458	1.073455	.2521364	2.109964	1.064699	.3284745
#1	.0041301	1.513685	10.31788	.0800569	.990399	.0830854
#2	.0048096	1.541728	10.26709	.0822494	1.005788	.0836306
#3	.0054312	1.513150	10.28328	.0789105	1.010902	.0834035

Elem	Li6707
Units	ppm
Avg	.1026334
Stddev	.0032814
%RSD	3.197189
#1	.1047182
#2	.0988510
#3	.1043309

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2555.265	32509.06	2513.894	1630.325	1711.243
Stddev	4.393	182.67	16.231	13.582	4.030
%RSD	.1719270	.5619180	.6456570	.8330764	.2355244
#1	2560.125	32613.74	2518.070	1640.325	1714.816
#2	2554.095	32615.31	2527.629	1635.787	1706.874
#3	2551.575	32298.13	2495.983	1614.862	1712.039

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-20 Acquired: 12/29/2024 12:58:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0924503	-.008844	.3215010	.0300048	-.009369	42.49653
Stddev	.0038663	.004448	.0039971	.0015173	.002047	.32621
%RSD	4.182049	50.29838	1.243249	5.056864	21.85187	.7676196
#1	.0881789	-.008613	.3202765	.0312839	-.011629	42.82994
#2	.0934614	-.004516	.3182595	.0283284	-.008843	42.48161
#3	.0957106	-.013404	.3259671	.0304020	-.007637	42.17803

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7108178	.0086238	.0045638	F 1669.592	.0685946	.0779018
Stddev	.0051695	.0000379	.0001405	21.383	.0009917	.0005378
%RSD	.7272640	.4392262	3.077440	1.280713	1.445743	.6902933
#1	.7162575	.0086498	.0044317	1645.086	.0688200	.0782337
#2	.7102265	.0085803	.0047113	1679.235	.0694541	.0781903
#3	.7059693	.0086412	.0045484	1684.454	.0675096	.0772813

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2139938	137.1449	10.23367	233.9645	.1361015	-.003653
Stddev	.0080333	1.2320	.05682	1.5250	.0005334	.000490
%RSD	3.753986	.8983285	.5551828	.6518077	.3918861	13.42110
#1	.2085562	138.5110	10.29767	235.7252	.1366532	-.003314
#2	.2232209	136.8058	10.21418	233.1052	.1360627	-.003429
#3	.2102042	136.1180	10.18917	233.0630	.1355886	-.004215

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.531545	.1197574	.4986937	7.849540	6.364877	.1134410
Stddev	.024204	.0079811	.0026653	.169938	.026176	.0012349
%RSD	1.580360	6.664365	.5344515	2.164948	.4112560	1.088599
#1	1.521695	.1270283	.4957382	7.960547	6.335003	.1139292
#2	1.513819	.1112181	.5009146	7.934169	6.375831	.1143572
#3	1.559121	.1210259	.4994285	7.653904	6.383796	.1120366

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-20 Acquired: 12/29/2024 12:58:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014898	2.225103	8.764361	.0424555	.4191292	1.109052
Stddev	.0004844	.000442	.053986	.0018702	.0057757	.010446
%RSD	32.51693	.0198467	.6159673	4.405030	1.378018	.9418891
#1	.0009372	2.225235	8.708421	.0419227	.4250570	1.120082
#2	.0016911	2.225463	8.816153	.0445342	.4188120	1.107767
#3	.0018412	2.224610	8.768510	.0409095	.4135187	1.099309

Elem	Li6707
Units	ppm
Avg	.0902054
Stddev	.0026889
%RSD	2.980830
#1	.0920089
#2	.0914924
#3	.0871149

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2198.746	28103.67	2225.440	1413.451	1528.664
Stddev	2.688	36.79	9.406	2.191	1.647
%RSD	.1222300	.1308999	.4226557	.1549773	.1077401
#1	2200.406	28065.38	2229.609	1411.706	1530.181
#2	2195.645	28138.75	2214.670	1412.737	1526.912
#3	2200.187	28106.89	2232.040	1415.909	1528.898

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-21 Acquired: 12/29/2024 13:02:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0274895	.0278705	.1746076	-.004274	-.013004	30.02291
Stddev	.0067863	.0045276	.0024500	.003104	.003195	.17497
%RSD	24.68678	16.24504	1.403155	72.62163	24.57203	.5827818
#1	.0334670	.0231748	.1741946	-.000691	-.011431	29.93936
#2	.0201126	.0282280	.1723903	-.006004	-.016680	30.22399
#3	.0288889	.0322088	.1772378	-.006127	-.010899	29.90539

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4050573	.0055059	.0043659	F 1119.509	.0617868	.0726938
Stddev	.0015184	.0001562	.0000800	4.458	.0007035	.0011235
%RSD	.3748669	2.836821	1.832318	.3982534	1.138508	1.545504
#1	.4048366	.0055698	.0044486	1115.765	.0618288	.0720534
#2	.4066741	.0056200	.0043603	1124.441	.0610634	.0720370
#3	.4036614	.0053279	.0042889	1118.322	.0624684	.0739911

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1245141	80.22416	10.89033	60.13003	.1047061	-.000267
Stddev	.0061084	.21782	.03142	.13208	.0021115	.001284
%RSD	4.905804	.2715137	.2885195	.2196608	2.016595	480.8751
#1	.1221481	80.13222	10.87291	60.14372	.1022694	.000411
#2	.1314516	80.47288	10.92661	60.25473	.1058504	.000536
#3	.1199426	80.06739	10.87149	59.99164	.1059984	-.001748

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7527352	.0556039	.3050671	8.840641	3.839629	.0817646
Stddev	.0146529	.0056850	.0013962	.019923	.022135	.0024127
%RSD	1.946623	10.22418	.4576566	.2253611	.5764872	2.950757
#1	.7585287	.0557247	.3036449	8.854826	3.815867	.0792937
#2	.7360713	.0498595	.3064357	8.849234	3.843354	.0841145
#3	.7636056	.0612277	.3051208	8.817863	3.859664	.0818857

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5054-21 Acquired: 12/29/2024 13:02:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005745	1.038950	7.837981	.0314935	.3712300	.6788051
Stddev	.0004034	.012570	.037135	.0026503	.0050628	.0052347
%RSD	70.22372	1.209923	.4737859	8.415363	1.363795	.7711693
#1	.0001164	1.032718	7.808665	.0339913	.3752028	.6734552
#2	.0008768	1.030713	7.879740	.0317758	.3655295	.6839166
#3	.0007304	1.053419	7.825539	.0287133	.3729578	.6790435

Elem	Li6707
Units	ppm
Avg	.0613235
Stddev	.0029008
%RSD	4.730311
#1	.0588911
#2	.0645340
#3	.0605456

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2290.369	29168.27	2310.158	1461.121	1612.021
Stddev	7.685	169.38	15.654	8.951	5.263
%RSD	.3355540	.5806893	.6776207	.6125827	.3264882
#1	2283.119	28974.80	2302.863	1455.767	1608.800
#2	2298.426	29240.24	2299.483	1456.142	1618.095
#3	2289.561	29289.79	2328.128	1471.454	1609.169

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-01 Acquired: 12/29/2024 13:06:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1197117	-.049067	1.321207	.0753226	.0215167	56.24883
Stddev	.0031436	.002562	.005437	.0014360	.0032981	.05862
%RSD	2.625938	5.221145	.4115396	1.906478	15.32816	.1042115
#1	.1205215	-.046699	1.319438	.0736962	.0198765	56.18115
#2	.1223711	-.051787	1.316874	.0758559	.0193602	56.28192
#3	.1162424	-.048716	1.327308	.0764156	.0253133	56.28341

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.260335	.0121174	.0069148	81.22893	.1046241	.0393890
Stddev	.001398	.0002173	.0000666	.07589	.0011035	.0004055
%RSD	.1108910	1.793389	.9623912	.0934245	1.054714	1.029558
#1	1.258854	.0123368	.0069046	81.21111	.1055027	.0396543
#2	1.261630	.0121132	.0069859	81.31214	.1049839	.0389222
#3	1.260522	.0119022	.0068540	81.16354	.1033856	.0395905

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2621529	158.6888	5.894173	29.18119	.1687054	-.002335
Stddev	.0039457	.5395	.024516	.08406	.0005476	.000928
%RSD	1.505094	.3399972	.4159331	.2880623	.3245934	39.74311
#1	.2629611	158.2376	5.868015	29.11132	.1681607	-.003034
#2	.2656319	158.5424	5.897882	29.15779	.1692559	-.002689
#3	.2578657	159.2864	5.916624	29.27448	.1686997	-.001282

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4784384	.1593709	1.246088	8.416025	F 13.99765	.0963211
Stddev	.0048470	.0069048	.006470	.070260	.03299	.0009099
%RSD	1.013089	4.332561	.5192069	.8348381	.2356592	.9446876
#1	.4840302	.1672264	1.248225	8.474941	13.98087	.0958503
#2	.4754370	.1566246	1.251220	8.338264	13.97643	.0973699
#3	.4758480	.1542618	1.238820	8.434871	14.03565	.0957430

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-01 Acquired: 12/29/2024 13:06:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101414	4.667761	12.02608	.0685496	.7296040	.0647640
Stddev	.0003359	.015444	.11473	.0011058	.0048955	.0010228
%RSD	3.311967	.3308717	.9539899	1.613059	.6709768	1.579198
#1	.0105239	4.651608	12.10034	.0672870	.7261652	.0652892
#2	.0098947	4.669293	11.89395	.0693453	.7274379	.0654175
#3	.0100056	4.682382	12.08396	.0690165	.7352088	.0635853

Elem	Li6707
Units	ppm
Avg	.0739207
Stddev	.0028708
%RSD	3.883650
#1	.0718565
#2	.0771991
#3	.0727066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2460.261	31251.58	2334.867	1587.355	1834.348
Stddev	4.264	138.24	21.462	12.334	5.717
%RSD	.1732986	.4423508	.9192120	.7769942	.3116893
#1	2463.615	31092.01	2317.256	1574.770	1838.876
#2	2461.705	31327.79	2358.773	1587.873	1836.244
#3	2455.463	31334.95	2328.572	1599.421	1827.923

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-02 Acquired: 12/29/2024 13:10:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1319510	-.046094	1.367687	.0705784	.0158329	57.57790
Stddev	.0061180	.002715	.004447	.0020601	.0040097	.62805
%RSD	4.636565	5.891027	.3251169	2.918926	25.32536	1.090786
#1	.1389158	-.046088	1.370045	.0683484	.0162682	57.85278
#2	.1294929	-.043382	1.362558	.0724106	.0196072	56.85927
#3	.1274444	-.048813	1.370458	.0709763	.0116233	58.02165

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.494370	.0112788	.0069920	85.05820	.1059433	.0489461
Stddev	.018984	.0001763	.0000860	1.14039	.0002074	.0009940
%RSD	1.270389	1.563280	1.230338	1.340720	.1957310	2.030718
#1	1.498878	.0114350	.0070770	85.37770	.1057087	.0486900
#2	1.473537	.0113137	.0069050	83.79213	.1060189	.0500430
#3	1.510694	.0110876	.0069939	86.00476	.1061022	.0481052

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2482302	152.0231	6.886669	33.17827	.1683380	-.002104
Stddev	.0026217	1.6674	.079781	.46202	.0009325	.000244
%RSD	1.056174	1.096787	1.158479	1.392552	.5539212	11.61059
#1	.2506626	152.6042	6.918521	33.22637	.1694121	-.001871
#2	.2454532	150.1430	6.795883	32.69408	.1678666	-.002359
#3	.2485747	153.3223	6.945603	33.61436	.1677354	-.002083

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4379995	.1720118	1.375485	7.396858	F 11.49266	.0872333
Stddev	.0404092	.0021180	.002340	.221101	.02246	.0019891
%RSD	9.225854	1.231322	.1701257	2.989127	.1954025	2.280201
#1	.4019229	.1699955	1.372792	7.607005	11.49261	.0876037
#2	.4304105	.1718211	1.376644	7.166228	11.47023	.0850850
#3	.4816651	.1742187	1.377019	7.417340	11.51514	.0890111

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-02 Acquired: 12/29/2024 13:10:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078888	3.088788	12.11966	.0716289	.6776970	.0636247
Stddev	.0004534	.008261	.01971	.0008229	.0127070	.0014300
%RSD	5.746976	.2674505	.1626487	1.148794	1.875024	2.247618
#1	.0075471	3.097248	12.14191	.0724582	.6836159	.0644221
#2	.0077162	3.080741	12.10438	.0708126	.6631103	.0619738
#3	.0084031	3.088376	12.11269	.0716159	.6863647	.0644783

Elem	Li6707
Units	ppm
Avg	.0829527
Stddev	.0042671
%RSD	5.144041
#1	.0780367
#2	.0856988
#3	.0851226

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2502.404	31716.48	2417.756	1608.626	1859.898
Stddev	9.156	135.25	15.140	7.028	8.065
%RSD	.3659014	.4264278	.6262038	.4368708	.4336392
#1	2512.862	31730.20	2414.765	1609.961	1868.731
#2	2495.826	31844.35	2434.169	1614.890	1858.038
#3	2498.524	31574.90	2404.335	1601.027	1852.925

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-03 Acquired: 12/29/2024 13:14:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1331616	-.052700	1.113804	.0717797	.0199220	67.40234
Stddev	.0017590	.004299	.002207	.0011676	.0014752	.05444
%RSD	1.320976	8.156798	.1981897	1.626659	7.405040	.0807706
#1	.1334697	-.057368	1.115762	.0712263	.0204515	67.40157
#2	.1312689	-.051827	1.114238	.0731211	.0182551	67.34829
#3	.1347462	-.048905	1.111412	.0709917	.0210594	67.45717

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.297147	.0116467	.0054467	75.42991	.1132844	.0452996
Stddev	.002435	.0000910	.0000117	.09221	.0007744	.0004892
%RSD	.1877539	.7810886	.2141092	.1222506	.6835995	1.079926
#1	1.299900	.0116651	.0054556	75.53318	.1139419	.0455752
#2	1.295276	.0115479	.0054335	75.35582	.1134805	.0455888
#3	1.296264	.0117271	.0054511	75.40071	.1124308	.0447347

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2033929	156.1813	5.966315	28.43174	.1470591	-.002013
Stddev	.0088007	.2646	.008942	.15311	.0006912	.000988
%RSD	4.326943	.1693945	.1498824	.5385175	.4700251	49.09013
#1	.1959907	155.9324	5.976244	28.51736	.1474755	-.003069
#2	.2131238	156.1524	5.958896	28.25497	.1474407	-.001859
#3	.2010642	156.4591	5.963806	28.52289	.1462612	-.001111

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5552038	.1837664	.9233785	6.557081	F 10.71180	.0871094
Stddev	.0232758	.0074416	.0004170	.036531	.02030	.0006801
%RSD	4.192302	4.049497	.0451544	.5571234	.1894882	.7807904
#1	.5483279	.1851066	.9237483	6.554701	10.73398	.0870654
#2	.5811430	.1904469	.9234607	6.521798	10.69416	.0864524
#3	.5361406	.1757458	.9229266	6.594744	10.70725	.0878105

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-03 Acquired: 12/29/2024 13:14:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060620	2.496742	12.79324	.0619285	.7032696	.0637256
Stddev	.0001361	.013076	.03747	.0006883	.0048168	.0005139
%RSD	2.245193	.5237119	.2928517	1.111422	.6849133	.8064698
#1	.0061209	2.508458	12.75063	.0611513	.6978915	.0640865
#2	.0059063	2.482636	12.80804	.0624611	.7047306	.0639530
#3	.0061587	2.499131	12.82104	.0621730	.7071868	.0631372

Elem	Li6707
Units	ppm
Avg	.1135782
Stddev	.0027037
%RSD	2.380448
#1	.1151076
#2	.1151704
#3	.1104564

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2572.323	32405.06	2417.332	1643.959	1861.361
Stddev	9.050	223.67	7.200	7.737	7.054
%RSD	.3518156	.6902444	.2978312	.4706613	.3789804
#1	2568.875	32197.83	2409.301	1637.395	1856.983
#2	2582.591	32375.17	2419.485	1641.991	1869.498
#3	2565.505	32642.18	2423.208	1652.490	1857.600

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-04 Acquired: 12/29/2024 13:18:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0877772	-.043296	.2477107	.0690203	.0153540	57.65282	.7398913
Stddev	.0034928	.005245	.0023813	.0019974	.0013036	.05390	.0011169
%RSD	3.979144	12.11366	.9613182	2.893878	8.489934	.0934948	.1509581
#1	.0859699	-.042930	.2503161	.0684295	.0138979	57.62363	.7391692
#2	.0855584	-.048714	.2471693	.0673849	.0157521	57.61982	.7393270
#3	.0918033	-.038244	.2456468	.0712464	.0164121	57.71503	.7411779

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104073	.0035521	168.8525	.0924065	.0442299	.1303270	157.5998
Stddev	.0000292	.0000549	.1714	.0006628	.0006833	.0047142	.1748
%RSD	.2810193	1.544556	.1015184	.7172377	1.544767	3.617247	.1108831
#1	.0103890	.0035858	168.6836	.0921774	.0444481	.1258190	157.4456
#2	.0103918	.0034888	168.8476	.0931534	.0447774	.1352235	157.7896
#3	.0104410	.0035816	169.0263	.0918886	.0434642	.1299383	157.5642

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.119540	44.33737	.1210145	-.002823	.5349967	.1468984	.4358465
Stddev	.003481	.28415	.0004671	.000265	.0097216	.0032203	.0012749
%RSD	.0679902	.6408731	.3859943	9.392272	1.817133	2.192191	.2925046
#1	5.117322	44.02614	.1215469	-.003103	.5452088	.1494800	.4352540
#2	5.117746	44.58294	.1206736	-.002791	.5258541	.1479253	.4373098
#3	5.123552	44.40302	.1208231	-.002576	.5339271	.1432899	.4349757

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.947436	6.269541	.0713450	.0067255	1.209367	11.84995	.0309354
Stddev	.137180	.018870	.0024410	.0004939	.012622	.08792	.0002290
%RSD	4.654217	.3009819	3.421462	7.343272	1.043721	.7419831	.7403169
#1	3.013308	6.288390	.0741314	.0070090	1.220085	11.92016	.0308745
#2	2.789744	6.269584	.0695835	.0070122	1.212562	11.75133	.0307429
#3	3.039255	6.250650	.0703203	.0061552	1.195454	11.87835	.0311887

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-04 Acquired: 12/29/2024 13:18:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5373757	.0452445	.0832573
Stddev	.0041206	.0006373	.0020036
%RSD	.7667964	1.408630	2.406477
#1	.5326222	.0448899	.0822029
#2	.5399310	.0448634	.0855679
#3	.5395741	.0459803	.0820012

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2513.229	31860.18	2440.003	1607.928	1811.758
Stddev	7.200	86.61	12.232	3.938	4.488
%RSD	.2864972	.2718458	.5013260	.2449197	.2477147
#1	2520.758	31956.65	2434.166	1610.053	1814.232
#2	2506.410	31834.79	2454.061	1603.384	1806.578
#3	2512.518	31789.10	2431.783	1610.347	1814.465

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-05 Acquired: 12/29/2024 13:22:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0762927	-.027911	.2026168	.0495780	.0054364	50.07307	.6297732
Stddev	.0021784	.007519	.0012237	.0027149	.0110073	.17790	.0041279
%RSD	2.855307	26.94007	.6039315	5.475972	202.4726	.3552854	.6554617
#1	.0757368	-.036494	.2012266	.0508339	-.006192	49.89254	.6260374
#2	.0744460	-.024750	.2030929	.0464625	.015695	50.24823	.6342048
#3	.0786951	-.022488	.2035308	.0514375	.006806	50.07843	.6290772

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096156	.0031937	354.6832	.0833587	.0577604	.1430283	150.2946
Stddev	.0000565	.0000407	.9877	.0004732	.0004051	.0052006	.5169
%RSD	.5880173	1.275693	.2784780	.5676663	.7012760	3.636064	.3439149
#1	.0096038	.0032161	354.1793	.0839050	.0582267	.1451247	149.7665
#2	.0096771	.0031466	355.8212	.0830822	.0575585	.1468535	150.7995
#3	.0095659	.0032182	354.0491	.0830887	.0574959	.1371067	150.3177

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.953004	98.48915	.1261965	-.003759	.8300690	.1314698	.4361233
Stddev	.020635	.30660	.0008134	.000723	.0519866	.0056329	.0039094
%RSD	.3466300	.3113059	.6445288	19.22291	6.262922	4.284575	.8964078
#1	5.932582	98.41996	.1266047	-.004121	.8096202	.1377888	.4399312
#2	5.952584	98.82444	.1252599	-.004229	.7914161	.1269752	.4363191
#3	5.973845	98.22306	.1267250	-.002927	.8891707	.1296454	.4321196

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.407241	7.166936	.0707123	.0051258	.9174170	10.93795	.0335568
Stddev	.096238	.012445	.0035491	.0007114	.0076014	.05228	.0014882
%RSD	2.824515	.1736393	5.019079	13.87862	.8285614	.4779826	4.434925
#1	3.504396	7.152852	.0669772	.0059416	.9087622	10.94108	.0318570
#2	3.311947	7.171513	.0711195	.0046347	.9230095	10.98860	.0341880
#3	3.405379	7.176445	.0740403	.0048010	.9204795	10.88418	.0346254

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-05 Acquired: 12/29/2024 13:22:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6309131	.1737727	.0812373
Stddev	.0059894	.0009906	.0027550
%RSD	.9493198	.5700329	3.391294
#1	.6259426	.1739550	.0843461
#2	.6292337	.1746594	.0802674
#3	.6375629	.1727036	.0790985

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2375.127	30451.89	2289.665	1521.248	1706.557
Stddev	1.732	38.83	14.037	11.510	2.810
%RSD	.0729296	.1275183	.6130742	.7566190	.1646794
#1	2375.216	30473.90	2291.288	1516.758	1705.103
#2	2376.814	30407.05	2274.887	1512.660	1709.797
#3	2373.353	30474.71	2302.821	1534.326	1704.772

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-06 Acquired: 12/29/2024 13:26:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0548886	-.012540	.1281716	.0316717	.0020059	40.16087	.4659586
Stddev	.0052961	.005485	.0016005	.0031269	.0050567	.45459	.0044547
%RSD	9.648821	43.73717	1.248677	9.872717	252.0954	1.131929	.9560375
#1	.0583682	-.006209	.1282218	.0330687	-.001470	40.21812	.4676083
#2	.0487936	-.015577	.1297463	.0280899	.007807	40.58413	.4693533
#3	.0575041	-.015835	.1265466	.0338565	-.000320	39.68037	.4609144

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078421	.0026152	445.7969	.0638571	.0591770	.1234549	125.0066
Stddev	.0003189	.0001850	4.2879	.0006334	.0004661	.0083488	1.4504
%RSD	4.065940	7.074368	.9618437	.9919641	.7876367	6.762646	1.160245
#1	.0075839	.0024091	446.8602	.0631922	.0586689	.1169415	125.3113
#2	.0081985	.0026697	449.4530	.0639256	.0592774	.1328666	126.2804
#3	.0077439	.0027668	441.0774	.0644535	.0595848	.1205566	123.4281

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.466271	142.1684	.1060363	-.003117	.9046956	.1138812	.3357867
Stddev	.061433	1.6944	.0010023	.000878	.0098403	.0092602	.0040203
%RSD	1.123855	1.191827	.9452349	28.16139	1.087690	8.131501	1.197267
#1	5.496424	142.4712	.1049202	-.002196	.9160198	.1235842	.3311449
#2	5.506801	143.6909	.1068594	-.003210	.8998422	.1051385	.3381613
#3	5.395588	140.3430	.1063295	-.003944	.8982249	.1129210	.3380538

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.449505	5.155505	.0637380	.0036047	.7226377	9.759770	.0265229
Stddev	.032488	.017412	.0021193	.0004732	.0014849	.080339	.0021656
%RSD	1.326295	.3377343	3.325091	13.12842	.2054795	.8231646	8.164815
#1	2.440591	5.146100	.0644888	.0030583	.7209342	9.784977	.0288281
#2	2.485519	5.144817	.0653798	.0038700	.7233215	9.824482	.0245312
#3	2.422405	5.175597	.0613455	.0038857	.7236575	9.669850	.0262094

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-06 Acquired: 12/29/2024 13:26:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5969235	.2475438	.0637432
Stddev	.0084313	.0022933	.0027298
%RSD	1.412452	.9264045	4.282564
#1	.6005763	.2479562	.0634949
#2	.6029124	.2496028	.0665887
#3	.5872818	.2450723	.0611459

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2273.085	29231.68	2242.961	1470.674	1669.680
Stddev	3.214	239.51	17.615	12.978	3.201
%RSD	.1413931	.8193608	.7853648	.8824569	.1917379
#1	2275.455	29500.85	2244.987	1485.250	1671.460
#2	2269.427	29152.10	2224.420	1460.373	1665.984
#3	2274.374	29042.09	2259.476	1466.399	1671.596

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-07 Acquired: 12/29/2024 13:29:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1028587	-.021594	.2080800	.0458114	.0061904	34.69539
Stddev	.0031440	.006486	.0011827	.0065498	.0069819	.19516
%RSD	3.056619	30.03645	.5683695	14.29734	112.7858	.5624980
#1	.1022696	-.016770	.2091745	.0533744	.0135322	34.79831
#2	.1000510	-.019044	.2068255	.0420482	-.000365	34.81754
#3	.1062556	-.028967	.2082399	.0420116	.005404	34.47031

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2979096	.0093074	.0037593	F 1036.992	.0649120	.0523799
Stddev	.0032839	.0000564	.0000552	7.591	.0009223	.0005435
%RSD	1.102298	.6063157	1.469453	.7320006	1.420905	1.037691
#1	.2985280	.0093163	.0038194	1041.619	.0658402	.0520916
#2	.3008403	.0092470	.0037477	1041.126	.0649002	.0530068
#3	.2943605	.0093588	.0037108	1028.232	.0639956	.0520411

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1697700	160.8954	6.184163	237.7446	.0973532	-.003948
Stddev	.0039417	1.0470	.034618	1.5020	.0015530	.000340
%RSD	2.321781	.6507441	.5597816	.6317613	1.595240	8.607613
#1	.1743208	160.9873	6.202831	239.0013	.0988699	-.004174
#2	.1675601	161.8934	6.205441	238.1513	.0974233	-.004114
#3	.1674290	159.8054	6.144219	236.0811	.0957663	-.003557

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.126589	.1439893	.4730402	3.647017	5.563102	.0902108
Stddev	.004950	.0066750	.0017268	.236180	.003902	.0042521
%RSD	.4393958	4.635753	.3650520	6.475973	.0701445	4.713534
#1	1.132271	.1516614	.4717019	3.773360	5.559203	.0892787
#2	1.124291	.1407933	.4724292	3.793152	5.567008	.0948516
#3	1.123206	.1395132	.4749894	3.374540	5.563095	.0865020

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-07 Acquired: 12/29/2024 13:29:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023031	1.286235	7.724860	.0334269	.6569276	.6500375
Stddev	.0006793	.005578	.035939	.0019658	.0040901	.0059650
%RSD	29.49392	.4336470	.4652406	5.880888	.6226130	.9176354
#1	.0023846	1.287134	7.752688	.0332396	.6556422	.6538679
#2	.0029379	1.291309	7.684285	.0354796	.6615060	.6530798
#3	.0015867	1.280263	7.737608	.0315614	.6536346	.6431648

Elem	Li6707
Units	ppm
Avg	.0650584
Stddev	.0036123
%RSD	5.552414
#1	.0609096
#2	.0667593
#3	.0675063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2315.165	29499.60	2362.901	1474.051	1613.666
Stddev	1.492	137.80	15.317	4.490	2.429
%RSD	.0644427	.4671385	.6482328	.3045879	.1505178
#1	2316.882	29384.19	2345.215	1473.130	1616.368
#2	2314.179	29462.44	2371.615	1470.093	1611.663
#3	2314.435	29652.17	2371.873	1478.930	1612.968

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-08 Acquired: 12/29/2024 13:33:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL35 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1210616	-.045820	.5781732	.0695096	.0190283	58.83156	.7031509
Stddev	.0062219	.002851	.0009025	.0057484	.0024455	.15885	.0044185
%RSD	5.139483	6.222244	.1560989	8.269906	12.85162	.2700005	.6283885
#1	.1140638	-.046556	.5777222	.0758023	.0215611	58.66902	.6992860
#2	.1259698	-.048231	.5775851	.0681922	.0188433	58.83923	.7021987
#3	.1231510	-.042673	.5792124	.0645343	.0166807	58.98643	.7079678

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107166	.0053160	40.81535	.0959720	.0407858	.1931569	138.3146
Stddev	.0002661	.0001663	.16636	.0014980	.0007406	.0024682	.4453
%RSD	2.482665	3.127994	.4075801	1.560858	1.815802	1.277798	.3219615
#1	.0107043	.0052499	40.70786	.0970943	.0416409	.1956170	137.8092
#2	.0109887	.0051930	40.73123	.0942710	.0403679	.1931731	138.6494
#3	.0104570	.0055052	41.00697	.0965508	.0403486	.1906807	138.4853

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.697448	16.97328	.1357379	-.001719	.3007604	.1407238	.6386461
Stddev	.018685	.07681	.0011464	.000400	.0227023	.0107760	.0042460
%RSD	.2789818	.4525423	.8445686	23.25459	7.548307	7.657537	.6648372
#1	6.684295	16.90030	.1370533	-.001307	.3269128	.1293881	.6369378
#2	6.689214	17.05342	.1352088	-.001744	.2861241	.1508355	.6355204
#3	6.718835	16.96613	.1349517	-.002105	.2892442	.1419477	.6434801

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.064270	5.551602	.0835792	.0071912	3.286436	11.42822	.0420685
Stddev	.064925	.020477	.0026102	.0008828	.015682	.07956	.0013572
%RSD	1.070609	.3688478	3.123032	12.27582	.4771774	.6961698	3.226124
#1	6.090583	5.535057	.0817804	.0081284	3.280161	11.51096	.0405420
#2	5.990319	5.545246	.0865730	.0070698	3.274864	11.35228	.0431386
#3	6.111907	5.574503	.0823843	.0063754	3.304284	11.42143	.0425250

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-08 Acquired: 12/29/2024 13:33:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL35 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5471522	-.044766	.0448677
Stddev	.0024716	.000414	.0007505
%RSD	.4517189	.9239524	1.672680
#1	.5468210	-.044718	.0440258
#2	.5497727	-.045201	.0451107
#3	.5448629	-.044378	.0454665

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2507.637	31647.67	2345.766	1600.306	1867.254
Stddev	6.501	111.06	10.672	7.122	3.075
%RSD	.2592539	.3509118	.4549350	.4450278	.1646954
#1	2509.517	31715.81	2333.464	1605.379	1868.494
#2	2500.403	31519.52	2352.535	1603.376	1863.752
#3	2512.991	31707.67	2351.299	1592.164	1869.516

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-09 Acquired: 12/29/2024 13:37:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL36 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1587184	-.065931	.6264107	.0920617	.0224093	69.74242	.7727388
Stddev	.0041039	.001364	.0011248	.0049181	.0031283	.23084	.0026439
%RSD	2.585670	2.069097	.1795572	5.342169	13.95971	.3309896	.3421421
#1	.1591367	-.066037	.6256385	.0924798	.0211739	69.48601	.7696880
#2	.1625972	-.067239	.6277012	.0869479	.0200875	69.80755	.7741676
#3	.1544213	-.064517	.6258924	.0967574	.0259667	69.93370	.7743609

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130232	.0068949	52.55343	.1126688	.0488207	.2021567	172.5902
Stddev	.0002505	.0001931	.15746	.0001344	.0002407	.0072753	1.0287
%RSD	1.923153	2.801058	.2996276	.1193133	.4930304	3.598840	.5960489
#1	.0132550	.0067556	52.49349	.1126350	.0490214	.1942443	171.6181
#2	.0127575	.0068137	52.43475	.1125545	.0485539	.2085573	172.4851
#3	.0130570	.0071153	52.73207	.1128169	.0488870	.2036685	173.6675

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.580422	21.80632	.1634382	-.002428	.3121535	.1798980	.7308212
Stddev	.036064	.10057	.0010246	.000497	.0311404	.0059531	.0021291
%RSD	.4757482	.4611872	.6268848	20.46786	9.975985	3.309130	.2913285
#1	7.553375	21.86498	.1634867	-.002539	.3129490	.1762739	.7307978
#2	7.566524	21.69020	.1644377	-.002860	.2806229	.1766516	.7329619
#3	7.621367	21.86379	.1623903	-.001885	.3428885	.1867686	.7287039

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.644733	6.307637	.0850255	.0068893	2.916405	11.60209	.0424343
Stddev	.018062	.019906	.0007117	.0001312	.010734	.07781	.0002857
%RSD	.2718240	.3155867	.8370336	1.904200	.3680497	.6706617	.6733601
#1	6.655977	6.317031	.0851637	.0067971	2.919291	11.68287	.0421214
#2	6.623898	6.284772	.0856580	.0068312	2.904524	11.52764	.0426815
#3	6.654322	6.321108	.0842549	.0070395	2.925401	11.59577	.0424999

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-09 Acquired: 12/29/2024 13:37:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL36 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4732891	-.051145	.0551341
Stddev	.0006433	.000908	.0042580
%RSD	.1359223	1.775840	7.723047
#1	.4730685	-.050364	.0507689
#2	.4727851	-.050929	.0553573
#3	.4740137	-.052142	.0592762

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2578.355	32364.74	2433.287	1645.675	1880.874
Stddev	11.387	63.00	12.629	3.333	8.227
%RSD	.4416279	.1946677	.5190142	.2025263	.4373912
#1	2591.435	32308.33	2419.936	1643.650	1889.325
#2	2570.657	32432.73	2445.043	1643.852	1880.405
#3	2572.972	32353.18	2434.882	1649.521	1872.892

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-10 Acquired: 12/29/2024 13:41:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL37 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1363971	-.052004	.5121795	.0852201	.0204748	71.66926	.7461304
Stddev	.0035742	.006335	.0017914	.0033569	.0039781	1.13438	.0114446
%RSD	2.620456	12.18098	.3497647	3.939129	19.42901	1.582793	1.533857
#1	.1326542	-.055388	.5141651	.0820177	.0181316	70.36231	.7329779
#2	.1367625	-.055928	.5106845	.0887127	.0250679	72.39832	.7538191
#3	.1397746	-.044696	.5116889	.0849298	.0182249	72.24715	.7515942

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127456	.0069631	72.17968	.1038302	.0570965	.1886536	166.8684
Stddev	.0002296	.0002265	.95000	.0005357	.0016626	.0054283	2.4223
%RSD	1.801757	3.252114	1.316156	.5159008	2.911891	2.877404	1.451626
#1	.0124829	.0070042	71.09946	.1037814	.0589042	.1885541	164.1132
#2	.0128458	.0067189	72.88514	.1033206	.0556328	.1941310	168.6631
#3	.0129082	.0071662	72.55444	.1043886	.0567524	.1832757	167.8290

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.257981	20.22383	.1447521	-.002938	.3052990	.1654690	.5854001
Stddev	.118242	.32038	.0007088	.000845	.0260105	.0006664	.0009384
%RSD	1.431857	1.584152	.4896807	28.75126	8.519674	.4027381	.1603004
#1	8.121566	19.86738	.1444081	-.003807	.3004949	.1661988	.5851992
#2	8.331138	20.48780	.1442809	-.002120	.3333767	.1648928	.5864227
#3	8.321238	20.31629	.1455672	-.002886	.2820255	.1653153	.5845784

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.188054	3.964833	.0847154	.0060922	2.081226	11.94473	.0515312
Stddev	.273819	.007967	.0016828	.0002698	.003631	.15734	.0018441
%RSD	5.277866	.2009372	1.986388	4.428698	.1744846	1.317273	3.578526
#1	5.065696	3.955738	.0835798	.0057840	2.077228	11.76675	.0534809
#2	5.501716	3.968185	.0839177	.0062072	2.084319	12.06535	.0512976
#3	4.996749	3.970576	.0866487	.0062855	2.082131	12.00209	.0498151

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-10 Acquired: 12/29/2024 13:41:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL37 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5349358	-.041979	.0466456
Stddev	.0095867	.001081	.0009099
%RSD	1.792131	2.575149	1.950725
#1	.5240373	-.040864	.0459812
#2	.5420652	-.042050	.0462729
#3	.5387050	-.043023	.0476827

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2644.360	33395.05	2560.008	1691.626	1838.961
Stddev	5.375	170.79	24.363	4.472	1.711
%RSD	.2032649	.5114293	.9516807	.2643611	.0930179
#1	2638.153	33269.08	2588.037	1690.289	1838.693
#2	2647.413	33589.45	2548.081	1696.613	1840.789
#3	2647.513	33326.63	2543.908	1687.974	1837.400

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV041 Acquired: 12/29/2024 13:45:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV041 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.056291	4.781238	24.69992	5.108647	5.038781	413.6713	10.41146
Stddev	.009698	.024883	.11199	.037497	.043371	.3820	.01915
%RSD	.1918017	.5204250	.4534042	.7339849	.8607466	.0923375	.1839656
#1	5.066761	4.809960	24.82280	5.151875	5.086634	413.9642	10.42523
#2	5.047616	4.767511	24.60359	5.084915	5.002063	413.8105	10.41956
#3	5.054496	4.766241	24.67338	5.089149	5.027645	413.2393	10.38958

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5331225	2.494850	407.2735	15.38267	2.410805	14.89473	409.5154
Stddev	.0051788	.013099	.8237	.03156	.013333	.02848	.2933
%RSD	.9714075	.5250374	.2022552	.2051399	.5530570	.1912055	.0716201
#1	.5385048	2.509888	407.1630	15.34894	2.425884	14.92667	409.7141
#2	.5326880	2.485925	408.1469	15.41148	2.400574	14.88553	409.1785
#3	.5281746	2.488738	406.5106	15.38757	2.405956	14.87198	409.6535

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.79856	403.7564	2.514272	1.274291	432.6960	2.509069	15.21114
Stddev	.03662	.5350	.013732	.003834	5.1058	.008356	.04945
%RSD	.2474514	.1325085	.5461615	.3008891	1.180006	.3330318	.3250693
#1	14.83344	404.2572	2.529977	1.273309	438.5840	2.501368	15.21277
#2	14.80182	403.8193	2.508313	1.271043	429.4921	2.507886	15.16090
#3	14.76042	403.1928	2.504526	1.278520	430.0117	2.517954	15.25976

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	152.3422	5.015528	5.172371	5.018720	5.099585	5.037025	4.993800
Stddev	.2229	.026654	.044457	.036531	.020500	.050542	.025082
%RSD	.1463473	.5314369	.8595086	.7278890	.4019853	1.003418	.5022658
#1	152.4990	5.045342	5.216373	5.059866	5.112179	5.091148	5.022437
#2	152.4407	4.994002	5.173267	4.990101	5.075930	5.028872	4.975733
#3	152.0870	5.007239	5.127473	5.006192	5.110644	4.991054	4.983229

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV041 Acquired: 12/29/2024 13:45:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV041 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.091669	4.718194	5.214369
Stddev	.025403	.012237	.001786
%RSD	.4989088	.2593647	.0342456
#1	5.088622	4.712556	5.214804
#2	5.118458	4.732234	5.212406
#3	5.067927	4.709792	5.215897

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1799.304	23550.27	1841.136	1135.696	1533.001
Stddev	12.385	86.71	14.721	5.258	6.410
%RSD	.6883291	.3682037	.7995387	.4629650	.4181578
#1	1785.478	23642.50	1824.893	1136.634	1525.872
#2	1809.384	23537.90	1844.918	1140.423	1538.290
#3	1803.049	23470.40	1853.597	1130.033	1534.840

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB041 Acquired: 12/29/2024 13:49:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB041 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003390	-.002572	.0012873	-.001952	-.001855	.0236713
Stddev	.004425	.002287	.0007874	.006807	.003118	.0395473
%RSD	130.5290	88.91751	61.16468	348.7894	168.1159	167.0685
#1	-.008213	-.004346	.0020298	.004177	.001507	-.014367
#2	.000483	.000009	.0013705	-.000754	-.002419	.020808
#3	-.002441	-.003378	.0004617	-.009278	-.004652	.064572

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000269	-.000068	-.000018	.0045391	.0009827	.0002131
Stddev	.000437	.000040	.000054	.0870301	.0005540	.0001758
%RSD	162.1358	59.82345	302.4497	1917.347	56.37155	82.50084
#1	.000226	-.000103	-.000049	-.074516	.0015978	.0000106
#2	-.000601	-.000076	-.000049	.097797	.0008275	.0003268
#3	-.000433	-.000024	.000044	-.009664	.0005229	.0003020

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004154	.0154584	-.000358	-.068139	-.000202	-.000321
Stddev	.001290	.0116430	.001863	.096340	.000387	.001065
%RSD	31.06249	75.31787	520.0000	141.3881	191.6594	331.3052
#1	-.003291	.0124059	.000578	-.147890	.000244	-.001221
#2	-.003535	.0056459	-.002504	-.095429	-.000446	.000854
#3	-.005638	.0283236	.000851	.038902	-.000404	-.000598

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0410389	-.012904	.0015489	-.601944	.0040409	.0109750
Stddev	.0180839	.012713	.0005196	.172777	.0009789	.0009958
%RSD	44.06534	98.51780	33.54988	28.70323	24.22468	9.073286
#1	.0396048	-.020203	.0021454	-.787448	.0029230	.0120223
#2	.0597971	-.020284	.0013069	-.572779	.0044549	.0108623
#3	.0237147	.001775	.0011943	-.445606	.0047447	.0100403

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: CCB041 Acquired: 12/29/2024 13:49:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB041 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007660	.0051243	.0016161	.0002983	.0000941	.0001943
Stddev	.0002665	.0028302	.0016877	.0017778	.0013540	.0004573
%RSD	34.79654	55.23059	104.4315	596.0302	1439.503	235.3791
#1	.0010349	.0083911	.0020315	.0021493	.0007629	.0004123
#2	.0005019	.0035684	-.000241	-.001396	-.001464	.0005018
#3	.0007610	.0034134	.003057	.000141	.000984	-.000331

Elem	Li6707
Units	ppm
Avg	F .0165822
Stddev	.0046035
%RSD	27.76184
#1	.0155287
#2	.0216211
#3	.0125967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2036.131	25699.63	1889.333	1298.751	1845.979
Stddev	4.144	113.64	26.915	4.362	3.161
%RSD	.2035257	.4421779	1.424551	.3358898	.1712287
#1	2040.164	25619.72	1870.197	1296.372	1847.077
#2	2031.884	25649.46	1877.694	1296.095	1842.416
#3	2036.347	25829.72	1920.108	1303.786	1848.444

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-11 Acquired: 12/29/2024 13:53:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL38 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1046386	-.037854	.2869788	.0646179	.0138223	65.68953	.7122060
Stddev	.0018251	.004221	.0015771	.0020358	.0031410	.26239	.0043489
%RSD	1.744164	11.15068	.5495684	3.150533	22.72424	.3994382	.6106251
#1	.1040218	-.042031	.2886989	.0624656	.0102033	65.38664	.7075792
#2	.1066922	-.033590	.2866368	.0665127	.0154244	65.84743	.7128288
#3	.1032019	-.037941	.2856008	.0648755	.0158392	65.83451	.7162099

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119575	.0060562	163.8382	.0790948	.0581470	.1873530	158.9539
Stddev	.0001487	.0000860	.4560	.0007869	.0003088	.0022697	1.0120
%RSD	1.243667	1.419178	.2782956	.9948685	.5311333	1.211459	.6366886
#1	.0118354	.0059623	163.3348	.0784120	.0585028	.1897510	157.7870
#2	.0121231	.0060756	163.9563	.0799554	.0579895	.1852381	159.4819
#3	.0119140	.0061309	164.2234	.0789170	.0579486	.1870700	159.5927

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.764447	20.09545	.1249508	-.003888	.3886329	.1394353	.5770369
Stddev	.032386	.18734	.0006724	.000318	.0163121	.0041743	.0050439
%RSD	.4171011	.9322266	.5381470	8.185110	4.197300	2.993697	.8740998
#1	7.727427	20.09083	.1256699	-.003729	.4074273	.1350475	.5797899
#2	7.778377	19.91047	.1243376	-.004254	.3781577	.1433569	.5712156
#3	7.787537	20.28506	.1248448	-.003681	.3803137	.1399016	.5801052

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.700105	3.396516	.0936840	.0028251	.8723948	10.91694	.0284744
Stddev	.167769	.012845	.0027214	.0001195	.0033507	.12051	.0018237
%RSD	6.213428	.3781953	2.904840	4.229250	.3840760	1.103891	6.404806
#1	2.620299	3.381871	.0936812	.0027225	.8687341	10.84632	.0270143
#2	2.892879	3.405876	.0909640	.0029563	.8753098	11.05609	.0305186
#3	2.587137	3.401800	.0964067	.0027965	.8731404	10.84842	.0278903

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-11 Acquired: 12/29/2024 13:53:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL38 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3570647	.0290824	.0490208
Stddev	.0059077	.0010483	.0016568
%RSD	1.654515	3.604449	3.379715
#1	.3589070	.0300690	.0503529
#2	.3618317	.0279818	.0495437
#3	.3504554	.0291965	.0471656

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2732.144	34718.72	2632.147	1748.311	1808.485
Stddev	2.295	140.99	23.469	17.264	3.197
%RSD	.0839984	.4061010	.8916461	.9874627	.1767572
#1	2734.155	34615.94	2640.187	1732.654	1811.464
#2	2729.644	34879.45	2605.714	1766.825	1805.108
#3	2732.633	34660.77	2650.540	1745.454	1808.883

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-12 Acquired: 12/29/2024 13:57:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL39 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0497483	.0088059	.1953001	.0119836	-.006099	49.32492
Stddev	.0072955	.0040651	.0008353	.0039011	.002577	.55484
%RSD	14.66475	46.16318	.4277235	32.55401	42.24814	1.124873
#1	.0578335	.0080019	.1948460	.0162829	-.009070	49.95263
#2	.0477540	.0052028	.1947901	.0109987	-.004767	49.12214
#3	.0436574	.0132128	.1962641	.0086693	-.004462	48.89999

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5909520	.0081488	.0040261	F 969.2609	.0681674	.0598101
Stddev	.0065733	.0002175	.0001107	8.7461	.0002669	.0008297
%RSD	1.112325	2.668701	2.750239	.9023473	.3915952	1.387293
#1	.5980805	.0080496	.0039039	979.1643	.0678601	.0607388
#2	.5896452	.0079986	.0041199	966.0228	.0683007	.0591417
#3	.5851302	.0083982	.0040545	962.5956	.0683414	.0595499

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1546076	103.5133	6.192823	65.37028	.0964482	-.001783
Stddev	.0054577	.9504	.055010	.68028	.0013479	.000741
%RSD	3.530013	.9181159	.8882798	1.040654	1.397555	41.56897
#1	.1546702	104.5380	6.252508	66.15544	.0964312	-.002005
#2	.1491189	103.3411	6.181807	64.99829	.0951088	-.002389
#3	.1600337	102.6608	6.144156	64.95712	.0978045	-.000957

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8595886	.0791774	.4983028	4.233795	3.160369	.0949579
Stddev	.0224512	.0036231	.0020600	.174421	.004319	.0020522
%RSD	2.611860	4.575865	.4134071	4.119725	.1366612	2.161121
#1	.8855123	.0758418	.4965971	4.401564	3.156557	.0957697
#2	.8467932	.0830319	.5005915	4.246412	3.159489	.0964799
#3	.8464602	.0786585	.4977199	4.053408	3.165060	.0926240

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-12 Acquired: 12/29/2024 13:57:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL39 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000325	1.685669	9.771570	.0279195	.1761419	.8080709
Stddev	.000441	.008709	.134516	.0002181	.0042232	.0079510
%RSD	135.7919	.5166617	1.376604	.7813054	2.397619	.9839461
#1	.000020	1.675667	9.923030	.0279189	.1808817	.8172047
#2	-.000822	1.689764	9.725666	.0277017	.1747653	.8043087
#3	-.000173	1.691576	9.666016	.0281380	.1727789	.8026992

Elem	Li6707
Units	ppm
Avg	.0672410
Stddev	.0028676
%RSD	4.264621
#1	.0668804
#2	.0702718
#3	.0645708

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2344.423	29716.28	2361.338	1495.325	1640.586
Stddev	2.366	84.43	28.171	8.459	2.410
%RSD	.1009401	.2841062	1.193029	.5657025	.1469111
#1	2342.572	29812.82	2330.119	1503.992	1639.084
#2	2347.090	29679.75	2369.031	1487.091	1643.366
#3	2343.608	29656.27	2384.864	1494.891	1639.307

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-13 Acquired: 12/29/2024 14:01:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL40 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0511684	.0074604	.1921937	.0223379	-.012578	47.11181
Stddev	.0026804	.0074308	.0011688	.0034620	.002481	.06793
%RSD	5.238335	99.60336	.6081137	15.49838	19.72403	.1441968
#1	.0508234	.0099993	.1932373	.0187511	-.015441	47.08707
#2	.0540047	.0132889	.1924129	.0226029	-.011053	47.05972
#3	.0486773	-.000907	.1909308	.0256599	-.011241	47.18865

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6525964	.0085575	.0044259	F 1379.727	.0672917	.0838395
Stddev	.0009738	.0001277	.0001468	2.936	.0006437	.0011715
%RSD	.1492164	1.491754	3.316825	.2128220	.9565841	1.397367
#1	.6535941	.0086403	.0042746	1383.102	.0678963	.0849684
#2	.6516485	.0084105	.0045677	1378.319	.0673638	.0826295
#3	.6525467	.0086219	.0044354	1377.759	.0666149	.0839206

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2773936	120.2914	9.103851	139.9246	.1279905	-.003191
Stddev	.0031190	.3356	.027875	.3317	.0013996	.000839
%RSD	1.124387	.2790169	.3061851	.2370730	1.093520	26.30443
#1	.2780492	119.9039	9.071732	139.6247	.1292294	-.003607
#2	.2801326	120.4794	9.118099	139.8682	.1282698	-.002225
#3	.2739989	120.4908	9.121722	140.2809	.1264723	-.003741

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.234210	.0842246	.3812619	6.136520	3.714180	.1173798
Stddev	.013035	.0115463	.0012937	.094261	.005829	.0026186
%RSD	1.056142	13.70889	.3393242	1.536071	.1569445	2.230853
#1	1.248127	.0713971	.3827172	6.164948	3.711150	.1193646
#2	1.232216	.0937859	.3802423	6.031317	3.710489	.1183628
#3	1.222287	.0874910	.3808261	6.213296	3.720900	.1144119

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-13 Acquired: 12/29/2024 14:01:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL40 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001943	1.960659	9.532052	.0333385	.2985452	.8459238
Stddev	.000847	.021241	.015139	.0019480	.0006652	.0009439
%RSD	43.61888	1.083354	.1588169	5.843120	.2228125	.1115849
#1	-.002557	1.965882	9.537340	.0312671	.2978740	.8465327
#2	-.000976	1.978802	9.514979	.0351337	.2985574	.8464023
#3	-.002295	1.937294	9.543838	.0336147	.2992042	.8448365

Elem	Li6707
Units	ppm
Avg	.0829599
Stddev	.0029368
%RSD	3.539969
#1	.0844464
#2	.0848562
#3	.0795771

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2231.824	28308.66	2234.935	1429.286	1539.075
Stddev	6.688	145.52	10.174	11.957	7.380
%RSD	.2996664	.5140608	.4552358	.8365389	.4795389
#1	2228.687	28203.62	2233.295	1418.458	1537.197
#2	2239.504	28247.60	2225.680	1427.283	1547.213
#3	2227.281	28474.77	2245.829	1442.118	1532.815

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-14 Acquired: 12/29/2024 14:05:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL41 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1762978	.0146428	.2730821	.0302784	-.001277	40.26757
Stddev	.0039635	.0062731	.0039705	.0019512	.004881	.65428
%RSD	2.248174	42.84096	1.453954	6.444301	382.3463	1.624839
#1	.1807496	.0121916	.2728376	.0291295	.002689	39.51705
#2	.1731526	.0099654	.2771692	.0291744	-.006727	40.71783
#3	.1749912	.0217714	.2692395	.0325314	.000209	40.56782

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5720466	.0076997	.0043761	F 1239.332	.0679560	.1317598
Stddev	.0103603	.0001742	.0000619	20.975	.0009656	.0007990
%RSD	1.811099	2.262037	1.413702	1.692450	1.420961	.6064089
#1	.5603200	.0078433	.0044173	1215.182	.0689422	.1314931
#2	.5799599	.0077498	.0043050	1252.998	.0679134	.1311282
#3	.5758598	.0075059	.0044061	1249.817	.0670123	.1326580

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3235200	129.3482	13.54995	154.5596	.1519648	.0009783
Stddev	.0124452	2.0228	.22800	2.1223	.0005308	.0004833
%RSD	3.846801	1.563855	1.682646	1.373099	.3492953	49.40333
#1	.3129421	127.0482	13.28898	152.1841	.1519563	.0006654
#2	.3203851	130.8510	13.71046	156.2687	.1514383	.0015349
#3	.3372329	130.1453	13.65042	155.2259	.1524998	.0007345

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.384566	.0975894	.4529013	3.576662	F 11.43732	.0958519
Stddev	.006741	.0145447	.0011498	.232767	.05217	.0026422
%RSD	.4868648	14.90396	.2538668	6.507947	.4561661	2.756565
#1	1.386307	.1118404	.4541793	3.375174	11.41753	.0928452
#2	1.377125	.0981601	.4525736	3.831459	11.39793	.0978039
#3	1.390266	.0827678	.4519510	3.523352	11.49649	.0969066

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-14 Acquired: 12/29/2024 14:05:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL41 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062643	4.042001	9.037434	.0347041	.4177296	1.111795
Stddev	.0008124	.023450	.118247	.0026238	.0071106	.022526
%RSD	12.96825	.5801591	1.308410	7.560381	1.702200	2.026076
#1	.0053264	4.038887	8.903237	.0332091	.4095215	1.086021
#2	.0067150	4.020263	9.082723	.0331695	.4220118	1.127711
#3	.0067513	4.066852	9.126343	.0377337	.4216553	1.121653

Elem	Li6707
Units	ppm
Avg	.0660072
Stddev	.0048124
%RSD	7.290691
#1	.0604522
#2	.0689094
#3	.0686599

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2352.285	29876.30	2392.720	1501.235	1562.005
Stddev	5.425	142.87	21.621	9.307	1.293
%RSD	.2306364	.4781930	.9036142	.6199411	.0827660
#1	2352.628	29819.73	2414.328	1495.410	1561.526
#2	2346.696	29770.39	2371.086	1496.327	1561.020
#3	2357.530	30038.80	2392.748	1511.969	1563.469

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-15 Acquired: 12/29/2024 14:08:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL42 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0408037	.0184141	.4169295	.0122800	-.011862	29.60411	.7122840
Stddev	.0027865	.0078509	.0023061	.0031277	.003278	.44159	.0087247
%RSD	6.829123	42.63545	.5531102	25.46956	27.63555	1.491642	1.224894
#1	.0439925	.0267231	.4144746	.0134945	-.015468	30.10241	.7223030
#2	.0388373	.0111199	.4172638	.0087273	-.011054	29.26128	.7063599
#3	.0395814	.0173993	.4190502	.0146183	-.009063	29.44865	.7081892

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054685	.0044333	628.3178	.0707620	.0512028	.1242482	80.94848
Stddev	.0001535	.0001849	9.1457	.0001872	.0007604	.0018598	1.10263
%RSD	2.807026	4.171405	1.455586	.2645568	1.485161	1.496803	1.362135
#1	.0056242	.0042585	638.5933	.0706146	.0503795	.1225649	82.16965
#2	.0053173	.0044145	621.0697	.0709726	.0518789	.1262446	80.02588
#3	.0054639	.0046269	625.2904	.0706987	.0513499	.1239351	80.64992

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.701726	210.3695	.0824350	-.000627	.8793035	.0750204	.6260731
Stddev	.095820	2.5510	.0008486	.000592	.0411853	.0048172	.0039314
%RSD	1.429785	1.212618	1.029409	94.42095	4.683855	6.421242	.6279428
#1	6.810105	213.2505	.0829758	-.001044	.9232516	.0792256	.6218241
#2	6.628247	208.3974	.0828723	.000051	.8730664	.0697645	.6295815
#3	6.666827	209.4607	.0814570	-.000889	.8415925	.0760710	.6268137

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.926966	6.333004	.0986370	.0053727	9.875478	7.848213	.0480700
Stddev	.258494	.009900	.0027122	.0003800	.029630	.104208	.0033239
%RSD	5.246509	.1563219	2.749687	7.073516	.3000359	1.327788	6.914627
#1	5.160961	6.323904	.1017687	.0050631	9.903978	7.968332	.0444627
#2	4.649489	6.331563	.0970877	.0057969	9.844834	7.782008	.0510089
#3	4.970448	6.343545	.0970545	.0052582	9.877622	7.794298	.0487383

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-15 Acquired: 12/29/2024 14:08:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL42 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4022731	.3865417	.0237392
Stddev	.0068146	.0051608	.0038819
%RSD	1.694035	1.335131	16.35251
#1	.4101186	.3924273	.0217307
#2	.3988742	.3827905	.0212729
#3	.3978264	.3844071	.0282138

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2160.030	27437.14	2128.593	1377.589	1698.105
Stddev	7.812	70.39	31.919	1.582	4.711
%RSD	.3616529	.2565630	1.499549	.1148740	.2774293
#1	2164.177	27388.13	2092.259	1376.448	1701.881
#2	2151.019	27517.80	2152.117	1379.396	1692.826
#3	2164.894	27405.49	2141.405	1376.923	1699.607

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-16 Acquired: 12/29/2024 14:12:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL43 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0817407	-.011763	.7564696	.0429823	-.000323	54.66846	.8795697
Stddev	.0021367	.003460	.0003664	.0073485	.003395	.16568	.0036291
%RSD	2.613956	29.41064	.0484393	17.09655	1051.891	.3030619	.4126036
#1	.0842040	-.011580	.7568849	.0426916	-.000760	54.47741	.8754222
#2	.0806284	-.015311	.7563317	.0504718	.003269	54.75527	.8811240
#3	.0803896	-.008399	.7561921	.0357834	-.003478	54.77269	.8821628

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092053	.0158384	535.0461	.1023217	.0548158	.1921622	131.9817
Stddev	.0002004	.0000615	1.3143	.0004934	.0002926	.0100145	.5760
%RSD	2.176866	.3885471	.2456469	.4821600	.5338761	5.211464	.4364405
#1	.0093675	.0158543	533.6073	.1017533	.0551114	.2007687	131.3276
#2	.0089813	.0158905	535.3473	.1026382	.0548095	.1945474	132.4134
#3	.0092672	.0157705	536.1837	.1025737	.0545262	.1811705	132.2039

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.057473	277.1827	.1499463	-.000181	.9315463	.1200824	3.200738
Stddev	.014610	1.1766	.0003503	.000645	.0186520	.0055967	.022766
%RSD	.1613017	.4244911	.2336431	356.5641	2.002263	4.660693	.7112771
#1	9.046170	275.8332	.1500568	-.000736	.9446768	.1219031	3.224582
#2	9.073970	277.7218	.1502281	-.000333	.9101962	.1138021	3.179230
#3	9.052279	277.9933	.1495541	.000527	.9397658	.1245420	3.198401

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.825338	6.649202	.0953248	.0067045	12.17178	12.07158	.0629220
Stddev	.079219	.011054	.0027942	.0010368	.02835	.04036	.0021369
%RSD	1.641738	.1662468	2.931186	15.46385	.2329406	.3343273	3.396194
#1	4.843944	6.660865	.0931086	.0055074	12.19484	12.06383	.0617575
#2	4.738472	6.638879	.0984636	.0073003	12.18038	12.03566	.0653882
#3	4.893599	6.647863	.0944023	.0073059	12.14013	12.11525	.0616201

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-16 Acquired: 12/29/2024 14:12:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL43 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5774146	.2115147	.0562555
Stddev	.0080950	.0007139	.0011241
%RSD	1.401940	.3374935	1.998267
#1	.5688364	.2106930	.0556062
#2	.5849193	.2118695	.0575536
#3	.5784881	.2119817	.0556068

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2213.872	28204.48	2186.034	1417.267	1630.004
Stddev	5.629	121.38	4.948	12.430	2.561
%RSD	.2542578	.4303537	.2263631	.8770118	.1571108
#1	2219.378	28124.14	2181.865	1403.083	1632.647
#2	2214.111	28145.19	2191.502	1422.459	1629.830
#3	2208.128	28344.10	2184.733	1426.259	1627.534

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-17 Acquired: 12/29/2024 14:16:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL44 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1695391	-.040387	1.595379	.0979402	.0225483	75.04595	1.474916
Stddev	.0071255	.004154	.004016	.0046197	.0025569	.23667	.002233
%RSD	4.202872	10.28564	.2517148	4.716845	11.33955	.3153728	.1513654
#1	.1777400	-.044301	1.599923	.0994247	.0220421	74.87676	1.472479
#2	.1660158	-.036029	1.593905	.1016351	.0253204	74.94469	1.476863
#3	.1648617	-.040832	1.592308	.0927607	.0202824	75.31641	1.475406

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134236	.0111951	100.5889	.1403368	.0590542	.2762464	179.8745
Stddev	.0001625	.0000655	.0858	.0006763	.0006871	.0066111	.2948
%RSD	1.210755	.5851306	.0853335	.4819284	1.163589	2.393198	.1638941
#1	.0133401	.0112344	100.4963	.1409941	.0592582	.2701598	179.7807
#2	.0136109	.0112315	100.6658	.1403732	.0596163	.2832800	179.6380
#3	.0133198	.0111195	100.6046	.1396430	.0582882	.2752994	180.2048

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.87656	47.01231	.2358928	-.000225	.5447743	.1875961	1.074357
Stddev	.03578	.19798	.0011010	.000726	.0170459	.0063103	.001211
%RSD	.2405405	.4211340	.4667312	323.1904	3.128992	3.363747	.1127037
#1	14.83897	46.79002	.2370253	.000470	.5539280	.1832424	1.073432
#2	14.88049	47.07719	.2358267	-.000979	.5552880	.1948329	1.075727
#3	14.91021	47.16971	.2348263	-.000165	.5251070	.1847130	1.073912

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.473368	7.305103	.1075747	.0091968	4.894302	13.03636	.1550390
Stddev	.151281	.007974	.0038037	.0008078	.020842	.08980	.0008571
%RSD	2.763947	.1091566	3.535853	8.783741	.4258487	.6888806	.5528400
#1	5.357080	7.314310	.1039486	.0101239	4.906721	13.12872	.1542806
#2	5.418623	7.300411	.1072415	.0088225	4.870239	12.94935	.1559689
#3	5.644400	7.300587	.1115340	.0086440	4.905945	13.03102	.1548676

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-17 Acquired: 12/29/2024 14:16:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL44 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7450982	.0215761	.0774429
Stddev	.0078821	.0003753	.0036611
%RSD	1.057857	1.739313	4.727433
#1	.7440431	.0212593	.0816680
#2	.7377968	.0219905	.0752081
#3	.7534547	.0214783	.0754526

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2519.726	31991.40	2434.862	1621.940	1813.526
Stddev	5.877	138.76	3.501	10.794	6.088
%RSD	.2332551	.4337468	.1438056	.6655075	.3357197
#1	2514.162	32083.60	2431.133	1632.822	1806.502
#2	2519.142	31831.81	2438.079	1611.236	1816.778
#3	2525.873	32058.78	2435.376	1621.763	1817.297

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-18 Acquired: 12/29/2024 14:20:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL45 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1263082	-.036404	.7399476	.0998346	.0234986	82.94359	1.807840
Stddev	.0015296	.001150	.0034940	.0029838	.0026461	.04078	.001699
%RSD	1.211003	3.158212	.4721895	2.988751	11.26058	.0491620	.0939860
#1	.1280657	-.036106	.7359139	.0964674	.0258252	82.93778	1.806186
#2	.1255815	-.037673	.7420303	.1008862	.0240505	82.98696	1.807753
#3	.1252775	-.035432	.7418987	.1021502	.0206201	82.90603	1.809581

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128686	.0081157	114.8085	.1223480	.0652825	.1584734	188.1100
Stddev	.0000696	.0001334	.3329	.0013545	.0002612	.0017560	.5716
%RSD	.5411021	1.643363	.2899468	1.107071	.4001356	1.108059	.3038792
#1	.0129084	.0081573	114.8997	.1215507	.0650606	.1573829	188.6010
#2	.0127882	.0079665	114.4396	.1215815	.0652166	.1604991	188.2466
#3	.0129092	.0082233	115.0864	.1239119	.0655704	.1575383	187.4825

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.25236	36.95324	.1913094	-.000881	.5100828	.1788100	.7254632
Stddev	.01955	.18292	.0008232	.000364	.0178161	.0016524	.0019536
%RSD	.1015565	.4949939	.4302923	41.27411	3.492789	.9240951	.2692954
#1	19.23196	37.12382	.1912260	-.001000	.5011649	.1777205	.7261292
#2	19.27094	36.76008	.1905311	-.000473	.4984867	.1807113	.7232636
#3	19.25418	36.97582	.1921711	-.001170	.5305969	.1779983	.7269967

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.839607	7.280306	.1006297	.0055404	3.062695	13.25157	.0801780
Stddev	.034868	.025356	.0044792	.0006316	.005796	.13368	.0019048
%RSD	.9081209	.3482788	4.451210	11.39916	.1892391	1.008788	2.375730
#1	3.816613	7.251597	.0964157	.0058994	3.058213	13.26630	.0808352
#2	3.879726	7.299634	.1053339	.0059106	3.069240	13.11113	.0816672
#3	3.822481	7.289689	.1001396	.0048112	3.060631	13.37727	.0780316

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-18 Acquired: 12/29/2024 14:20:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL45 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6225619	.0016037	.0857163
Stddev	.0028051	.0015368	.0040199
%RSD	.4505787	95.82851	4.689746
#1	.6203524	.0002312	.0849343
#2	.6257178	.0013158	.0900697
#3	.6216154	.0032642	.0821449

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2570.334	32532.97	2489.149	1650.935	1810.882
Stddev	9.939	69.81	19.637	3.136	8.294
%RSD	.3866903	.2145786	.7889048	.1899566	.4580109
#1	2578.925	32457.10	2488.183	1651.747	1820.093
#2	2572.629	32594.49	2509.251	1653.586	1808.545
#3	2559.448	32547.32	2470.013	1647.473	1804.007

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-19 Acquired: 12/29/2024 14:24:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL46 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0695408	-.022829	.2460604	.0513881	.0092204	64.41671	.9203340
Stddev	.0029620	.006192	.0026841	.0039606	.0026576	.12070	.0037518
%RSD	4.259445	27.12369	1.090823	7.707163	28.82252	.1873674	.4076570
#1	.0724621	-.024394	.2453935	.0475667	.0121599	64.44078	.9201136
#2	.0665396	-.016004	.2490150	.0511229	.0085140	64.28580	.9166973
#3	.0696206	-.028087	.2437726	.0554745	.0069875	64.52357	.9241911

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105857	.0035850	521.8059	.0948279	.0607539	.1026849	152.4091
Stddev	.0000887	.0000993	1.0794	.0007903	.0016280	.0005694	.5981
%RSD	.8380730	2.770353	.2068647	.8333797	2.679693	.5544665	.3924488
#1	.0106808	.0035823	521.6781	.0956594	.0607391	.1032690	151.9318
#2	.0105710	.0034871	520.7960	.0947378	.0623893	.1026542	152.2155
#3	.0105052	.0036857	522.9435	.0940865	.0591333	.1021315	153.0801

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.074040	63.49784	.1525961	-.002397	.8035346	.1418425	.3648506
Stddev	.010851	.27277	.0017470	.000445	.0273597	.0046010	.0006029
%RSD	.1786396	.4295800	1.144836	18.55648	3.404914	3.243723	.1652516
#1	6.080465	63.44001	.1545929	-.002822	.7988600	.1377792	.3650318
#2	6.061512	63.25863	.1513495	-.001935	.8329304	.1409100	.3641779
#3	6.080142	63.79490	.1518460	-.002435	.7788134	.1468383	.3653421

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.998731	5.503676	.0784487	.0017363	1.771900	12.78030	.0395197
Stddev	.028745	.011827	.0019754	.0005274	.005008	.00882	.0012851
%RSD	.9585869	.2148980	2.518106	30.37357	.2826224	.0690224	3.251881
#1	2.983385	5.491744	.0783785	.0013961	1.769584	12.78765	.0404353
#2	2.980916	5.515396	.0804584	.0014691	1.777646	12.78273	.0400731
#3	3.031893	5.503888	.0765094	.0023438	1.768469	12.77051	.0380505

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-19 Acquired: 12/29/2024 14:24:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL46 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7053397	.2846842	.0868894
Stddev	.0030797	.0006865	.0041995
%RSD	.4366216	.2411592	4.833198
#1	.7069833	.2839816	.0866638
#2	.7017869	.2847176	.0911972
#3	.7072489	.2853535	.0828072

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2325.485	29485.32	2255.174	1483.754	1698.534
Stddev	5.172	23.67	4.317	3.394	4.969
%RSD	.2224038	.0802830	.1914162	.2287303	.2925374
#1	2329.276	29511.06	2255.833	1487.667	1702.397
#2	2319.593	29464.49	2250.566	1481.972	1692.928
#3	2327.584	29480.40	2259.124	1481.622	1700.276

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-20 Acquired: 12/29/2024 14:28:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0782344	-.034754	.3125316	.0618018	.0056353	73.11139
Stddev	.0041747	.002913	.0051810	.0093318	.0020687	.94062
%RSD	5.336197	8.381757	1.657748	15.09956	36.70849	1.286554
#1	.0795955	-.032472	.3070101	.0561939	.0052158	72.06739
#2	.0735490	-.038035	.3132979	.0566372	.0078816	73.89284
#3	.0815587	-.033756	.3172867	.0725742	.0038086	73.37392

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8756954	.0118009	.0047033	F 949.3930	.1023823	.0792245
Stddev	.0133151	.0000755	.0001256	9.3956	.0008243	.0004178
%RSD	1.520514	.6401888	2.670962	.9896457	.8051251	.5273066
#1	.8606647	.0117688	.0045903	938.6698	.1026658	.0796854
#2	.8860126	.0117466	.0048386	956.1821	.1030275	.0788708
#3	.8804088	.0118872	.0046810	953.3271	.1014537	.0791174

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1744416	186.7112	10.30272	222.6506	.2195415	-.004601
Stddev	.0070821	2.2478	.12326	2.6219	.0005842	.000362
%RSD	4.059847	1.203901	1.196376	1.177569	.2661173	7.874631
#1	.1677801	184.2186	10.16668	219.7745	.2191836	-.004466
#2	.1736646	188.5844	10.40698	224.9074	.2192253	-.005011
#3	.1818801	187.3306	10.33451	223.2698	.2202157	-.004325

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.382308	.1635982	.6441631	7.870186	6.510786	.1253133
Stddev	.025615	.0170905	.0018013	.101821	.007269	.0032176
%RSD	1.853037	10.44664	.2796349	1.293755	.1116492	2.567646
#1	1.392292	.1438642	.6462431	7.755551	6.516357	.1227961
#2	1.401427	.1733581	.6431178	7.904883	6.513437	.1242052
#3	1.353205	.1735723	.6431285	7.950123	6.502563	.1289385

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-20 Acquired: 12/29/2024 14:28:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016715	1.617741	12.70165	.0430712	.9640291	.7500838
Stddev	.0006810	.009436	.04457	.0013840	.0129730	.0069208
%RSD	40.74374	.5832694	.3509383	3.213260	1.345704	.9226660
#1	.0010178	1.625155	12.66348	.0424927	.9514566	.7420980
#2	.0023769	1.607120	12.69083	.0420702	.9773686	.7543366
#3	.0016196	1.620948	12.75064	.0446505	.9632622	.7538168

Elem	Li6707
Units	ppm
Avg	.1276140
Stddev	.0039899
%RSD	3.126540
#1	.1234093
#2	.1280856
#3	.1313471

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2273.806	28880.19	2278.859	1450.178	1578.859
Stddev	3.471	115.73	7.742	2.104	2.619
%RSD	.1526675	.4007185	.3397512	.1450992	.1658934
#1	2274.561	28840.49	2287.796	1448.307	1580.198
#2	2276.838	28789.54	2274.568	1449.771	1580.538
#3	2270.020	29010.55	2274.212	1452.456	1575.841

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-21 Acquired: 12/29/2024 14:31:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0775159	-.037747	.3133435	.0666166	.0112412	73.57494
Stddev	.0069558	.003292	.0016913	.0052542	.0045674	.07635
%RSD	8.973377	8.720285	.5397468	7.887283	40.63094	.1037697
#1	.0800338	-.037257	.3114617	.0713244	.0060159	73.51041
#2	.0828621	-.034727	.3147365	.0609484	.0132348	73.55518
#3	.0696518	-.041256	.3138323	.0675769	.0144729	73.65922

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8770808	.0117233	.0047288	F 955.6724	.1048709	.0778625
Stddev	.0002466	.0001038	.0001510	1.0689	.0012540	.0013309
%RSD	.0281141	.8855763	3.193258	.1118495	1.195733	1.709313
#1	.8770425	.0116133	.0046741	955.6549	.1034266	.0763404
#2	.8768556	.0118196	.0048995	954.6123	.1055036	.0784403
#3	.8773443	.0117369	.0046128	956.7500	.1056826	.0788069

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1869769	188.0753	10.37772	224.1941	.2192290	-.003787
Stddev	.0026639	.1373	.02821	.5716	.0005377	.000764
%RSD	1.424738	.0729949	.2718512	.2549673	.2452640	20.17150
#1	.1853313	187.9222	10.36595	223.6493	.2191861	-.004145
#2	.1900503	188.1874	10.35731	224.1436	.2197868	-.004307
#3	.1855489	188.1162	10.40992	224.7892	.2187140	-.002910

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.400028	.1530772	.6617554	7.860841	6.522518	.1277447
Stddev	.018241	.0110473	.0015346	.113572	.009344	.0010333
%RSD	1.302927	7.216790	.2318910	1.444778	.1432516	.8088642
#1	1.402064	.1414254	.6611615	7.917280	6.521590	.1287395
#2	1.417166	.1633996	.6606065	7.730105	6.532291	.1266768
#3	1.380854	.1544067	.6634981	7.935136	6.513673	.1278179

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-21 Acquired: 12/29/2024 14:31:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021468	1.625742	12.65751	.0419573	.9767793	.7552829
Stddev	.0007685	.007247	.04935	.0012859	.0049737	.0008269
%RSD	35.79648	.4457845	.3898707	3.064784	.5091936	.1094847
#1	.0012616	1.626256	12.70924	.0429560	.9710552	.7557209
#2	.0026429	1.632719	12.65235	.0405064	.9792362	.7543291
#3	.0025359	1.618251	12.61095	.0424095	.9800464	.7557988

Elem	Li6707
Units	ppm
Avg	.1298807
Stddev	.0039898
%RSD	3.071918
#1	.1253127
#2	.1316466
#3	.1326828

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2278.360	28703.08	2299.015	1433.881	1581.096
Stddev	3.095	51.72	7.207	1.824	3.709
%RSD	.1358513	.1802000	.3134695	.1272260	.2346037
#1	2275.773	28643.37	2290.982	1434.918	1578.749
#2	2277.517	28731.80	2301.150	1434.951	1579.167
#3	2281.789	28734.07	2304.913	1431.775	1585.373

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5056-20LX5 Acquired: 12/29/2024 14:35:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092478	.0234875	.0689264	-.015881	-.013225	16.95333	.2019843
Stddev	.0038373	.0050616	.0036425	.001992	.003873	.02555	.0015674
%RSD	41.49400	21.55033	5.284590	12.54609	29.28926	.1506946	.7759910
#1	.0049538	.0266160	.0663098	-.015961	-.017351	16.97358	.2030475
#2	.0104484	.0261987	.0730865	-.013849	-.012658	16.92463	.2027210
#3	.0123412	.0176478	.0673830	-.017832	-.009666	16.96178	.2001843

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028795	.0007458	224.8855	.0255285	.0449126	.0346705	44.83975
Stddev	.0000851	.0001420	.0547	.0005098	.0004154	.0024168	.09798
%RSD	2.954979	19.04484	.0243409	1.996796	.9248777	6.970643	.2185098
#1	.0028724	.0008117	224.8790	.0258876	.0448775	.0344108	44.73756
#2	.0029680	.0005828	224.9431	.0257528	.0445159	.0372066	44.84880
#3	.0027983	.0008428	224.8342	.0249450	.0453445	.0323941	44.93289

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.469449	53.12556	.0433379	-.000849	.3516462	.0429468	.1786519
Stddev	.006716	.22734	.0004498	.000347	.0153748	.0068309	.0006659
%RSD	.2719780	.4279227	1.037898	40.87422	4.372221	15.90548	.3727521
#1	2.461898	52.86600	.0436823	-.001218	.3355326	.0351692	.1794055
#2	2.471694	53.22139	.0435024	-.000798	.3532496	.0456985	.1781426
#3	2.474756	53.28929	.0428290	-.000530	.3661565	.0479726	.1784076

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.230650	1.264961	.0267322	.0021101	.3407171	3.154183	.0104881
Stddev	.117675	.002086	.0028872	.0003068	.0033430	.010222	.0017611
%RSD	9.562048	.1648966	10.80033	14.53737	.9811540	.3240764	16.79129
#1	1.204452	1.266411	.0298338	.0024034	.3368589	3.149238	.0091149
#2	1.128282	1.265903	.0262401	.0021356	.3425397	3.165938	.0124737
#3	1.359217	1.262571	.0241227	.0017915	.3427527	3.147374	.0098758

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-20LX5 Acquired: 12/29/2024 14:35:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2351703	.1740724	.0221481
Stddev	.0053266	.0006197	.0021449
%RSD	2.264977	.3559845	9.684401
#1	.2326251	.1735034	.0196715
#2	.2412920	.1739812	.0234094
#3	.2315938	.1747326	.0233633

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2081.207	26429.06	2016.952	1334.732	1742.859
Stddev	4.685	131.39	5.275	11.230	6.115
%RSD	.2250980	.4971328	.2615454	.8413842	.3508546
#1	2084.084	26292.62	2013.193	1324.227	1748.873
#2	2083.736	26439.84	2014.680	1333.400	1743.056
#3	2075.802	26554.73	2022.983	1346.568	1736.648

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-22 Acquired: 12/29/2024 14:39:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1573522	.0446435	.3474021	.2262735	.1788207	76.47766
Stddev	.0057262	.0054556	.0034828	.0018023	.0041102	.21817
%RSD	3.639094	12.22037	1.002534	.7965237	2.298498	.2852733
#1	.1537314	.0483789	.3482326	.2248113	.1753157	76.72957
#2	.1543713	.0471688	.3435791	.2282871	.1833444	76.35413
#3	.1639539	.0383827	.3503946	.2257222	.1778019	76.34929

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.393443	.0988347	.1050893	F 948.8755	.4572576	1.101779
Stddev	.006944	.0001996	.0001578	1.5059	.0000218	.001929
%RSD	.1580596	.2019110	.1501621	.1587069	.0047615	.1750444
#1	4.401411	.0990317	.1052534	947.1874	.4572821	1.100800
#2	4.390237	.0988397	.1049387	950.0811	.4572502	1.100537
#3	4.388681	.0986327	.1050758	949.3579	.4572405	1.104001

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5753239	188.1361	11.10089	222.2246	1.234222	.0634325
Stddev	.0079693	.3536	.01777	.3102	.000811	.0007242
%RSD	1.385187	.1879665	.1601092	.1395916	.0657375	1.141683
#1	.5731468	188.4900	11.11160	222.5036	1.235059	.0625966
#2	.5841555	188.1356	11.11069	222.2797	1.234170	.0638714
#3	.5686694	187.7827	11.08037	221.8906	1.233439	.0638295

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.494748	1.036053	1.622182	7.770983	6.478050	.1205584
Stddev	.012244	.011542	.006594	.128913	.002460	.0034856
%RSD	.8191386	1.114033	.4065203	1.658904	.0379754	2.891201
#1	1.507007	1.026732	1.628761	7.892959	6.477821	.1193950
#2	1.482519	1.048963	1.615572	7.783886	6.480616	.1244770
#3	1.494718	1.032462	1.622214	7.636103	6.475712	.1178034

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5056-22 Acquired: 12/29/2024 14:39:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012726	1.657923	12.58981	.0437888	.9652253	.7474165
Stddev	.0003759	.002642	.04273	.0015369	.0038310	.0019084
%RSD	29.54051	.1593522	.3394002	3.509681	.3969067	.2553386
#1	.0009592	1.659871	12.62451	.0443766	.9665600	.7459255
#2	.0011691	1.654916	12.54208	.0420448	.9609055	.7467566
#3	.0016894	1.658982	12.60283	.0449450	.9682106	.7495673

Elem	Li6707
Units	ppm
Avg	.1309144
Stddev	.0024191
%RSD	1.847834
#1	.1284369
#2	.1310360
#3	.1332705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2267.002	28943.27	2294.972	1450.610	1575.366
Stddev	10.178	108.30	6.672	8.507	7.152
%RSD	.4489689	.3741732	.2907191	.5864735	.4539866
#1	2274.107	28858.04	2287.352	1440.787	1580.959
#2	2271.558	28906.65	2297.794	1455.609	1577.831
#3	2255.342	29065.14	2299.768	1455.434	1567.308

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5090-12A Acquired: 12/29/2024 14:43:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7482044	-.097013	2.121333	.4657746	.0576704	66.58197
Stddev	.0048627	.008194	.004892	.0039256	.0035457	.50346
%RSD	.6499194	8.446452	.2305943	.8428156	6.148161	.7561475
#1	.7523328	-.103723	2.126844	.4658184	.0617449	67.11901
#2	.7428442	-.099435	2.119651	.4696782	.0559808	66.50623
#3	.7494361	-.087881	2.117504	.4618273	.0552855	66.12067

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.842029	.0212973	.0099585	258.3634	.1218416	.0267974
Stddev	.028786	.0001203	.0001109	1.7372	.0002676	.0003137
%RSD	.7492418	.5647943	1.113961	.6723729	.2196326	1.170624
#1	3.865293	.0213622	.0100438	260.3237	.1221038	.0264751
#2	3.850957	.0213713	.0099987	257.7517	.1215689	.0268154
#3	3.809837	.0211585	.0098331	257.0148	.1218522	.0271017

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.146564	372.5494	9.008463	43.39898	.2669461	-.004203
Stddev	.002832	2.3368	.050595	.40410	.0007219	.000098
%RSD	.2469710	.6272473	.5616372	.9311332	.2704404	2.322140
#1	1.144646	374.7900	9.058180	43.82985	.2676432	-.004162
#2	1.145230	372.7314	9.010176	43.33868	.2662016	-.004315
#3	1.149816	370.1270	8.957034	43.02842	.2669935	-.004133

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8390744	.1833908	3.809480	9.063208	F 15.97092	.1914378
Stddev	.0183134	.0056202	.013406	.112141	.02453	.0022262
%RSD	2.182578	3.064599	.3519216	1.237321	.1536030	1.162871
#1	.8577831	.1898464	3.820219	9.154748	15.99478	.1897054
#2	.8382564	.1795880	3.813766	9.096753	15.94577	.1906594
#3	.8211836	.1807379	3.794455	8.938122	15.97220	.1939487

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5090-12A Acquired: 12/29/2024 14:43:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM25A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060691	2.855836	8.165682	.1550968	.9878128	-.027708
Stddev	.0003183	.006201	.081241	.0013493	.0130495	.000840
%RSD	5.244594	.2171459	.9949026	.8699515	1.321047	3.032982
#1	.0057395	2.848902	8.248668	.1541676	.9941390	-.026894
#2	.0063747	2.857755	8.162072	.1566445	.9964934	-.028572
#3	.0060933	2.860851	8.086308	.1544784	.9728060	-.027658

Elem	Li6707
Units	ppm
Avg	.0881515
Stddev	.0014191
%RSD	1.609795
#1	.0870161
#2	.0897424
#3	.0876962

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2485.084	31671.23	2423.645	1586.996	1781.995
Stddev	10.142	119.68	28.177	7.526	5.490
%RSD	.4081143	.3778703	1.162572	.4742398	.3080851
#1	2496.427	31709.75	2398.547	1587.547	1788.181
#2	2476.891	31537.04	2418.265	1579.209	1777.702
#3	2481.935	31766.90	2454.124	1594.231	1780.103

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5063-07A Acquired: 12/29/2024 14:47:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0519343	.0043603	.1589740	.0882699	.0925522	47.82329	.4926528
Stddev	.0053960	.0015559	.0051252	.0029268	.0066470	.25298	.0017272
%RSD	10.38995	35.68281	3.223902	3.315706	7.181867	.5289984	.3505880
#1	.0518889	.0043403	.1585270	.0874429	.0848912	48.02988	.4946468
#2	.0573529	.0028145	.1540869	.0858456	.0959781	47.54113	.4916920
#3	.0465612	.0059261	.1643080	.0915212	.0967874	47.89887	.4916197

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076522	.0031096	597.6018	.0732481	.0700655	.4893387	117.6200
Stddev	.0001118	.0001161	1.9835	.0002556	.0010917	.0024627	.4823
%RSD	1.460974	3.733691	.3319156	.3489269	1.558072	.5032689	.4100562
#1	.0077811	.0031930	599.0502	.0732783	.0697276	.4920962	118.1668
#2	.0075815	.0029770	595.3411	.0729788	.0691827	.4873584	117.2548
#3	.0075940	.0031588	598.4142	.0734873	.0712862	.4885615	117.4385

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.042419	92.14864	.1160811	.0140592	.9763894	.1040379	.9975554
Stddev	.030089	.05546	.0009023	.0010843	.0137738	.0070697	.0062602
%RSD	.3327582	.0601891	.7773048	7.712369	1.410691	6.795305	.6275562
#1	9.074729	92.12317	.1162070	.0128578	.9841989	.1121849	1.001707
#2	9.015199	92.11049	.1151224	.0143547	.9604855	.1004114	1.000604
#3	9.037329	92.21226	.1169138	.0149651	.9844836	.0995173	.990355

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.078678	4.984644	.0845446	.0021054	1.276959	10.63542	.0309999
Stddev	.155899	.025348	.0009900	.0003116	.006734	.08545	.0017301
%RSD	3.069672	.5085215	1.171026	14.79859	.5273499	.8034079	5.580926
#1	5.257574	4.979625	.0835604	.0018116	1.270755	10.72435	.0324816
#2	5.006598	4.962181	.0845330	.0020725	1.284121	10.55394	.0314196
#3	4.971863	5.012126	.0855404	.0024321	1.276001	10.62797	.0290986

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5063-07A Acquired: 12/29/2024 14:47:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL34A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6057862	.3249609	.0689929
Stddev	.0130443	.0009787	.0009371
%RSD	2.153287	.3011657	1.358232
#1	.5908341	.3253844	.0684913
#2	.6148368	.3238417	.0684135
#3	.6116877	.3256564	.0700741

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2378.599	30021.58	2347.703	1500.333	1669.803
Stddev	5.739	63.90	15.322	5.453	3.078
%RSD	.2412701	.2128317	.6526584	.3634658	.1843245
#1	2384.606	30061.97	2334.641	1495.486	1672.445
#2	2378.019	30054.86	2364.569	1499.276	1670.541
#3	2373.172	29947.92	2343.900	1506.238	1666.423

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5084-13A Acquired: 12/29/2024 14:51:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1106085	.0116627	.8848142	.1661811	.1011541	75.89065	.9183421
Stddev	.0053949	.0061631	.0064245	.0091809	.0017297	.15668	.0036287
%RSD	4.877498	52.84488	.7260836	5.524630	1.709948	.2064596	.3951367
#1	.1158043	.0161959	.8848528	.1739155	.1000341	75.90542	.9201888
#2	.1050344	.0046451	.8783705	.1685926	.1002820	76.03942	.9206761
#3	.1109867	.0141471	.8912193	.1560351	.1031463	75.72710	.9141615

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117054	.0058345	266.6812	.1476285	.0766335	.3262082	167.8894
Stddev	.0002630	.0002108	.7779	.0001888	.0009105	.0085340	.4182
%RSD	2.246420	3.612888	.2917025	.1279100	1.188096	2.616110	.2490772
#1	.0115690	.0056533	266.5613	.1477991	.0768446	.3218889	167.6313
#2	.0120085	.0060659	267.5121	.1474256	.0756360	.3206975	168.3718
#3	.0115386	.0057844	265.9701	.1476607	.0774199	.3360384	167.6650

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.164210	62.24695	.1830466	.0109163	.5651628	.1722249	.7617315
Stddev	.028303	.19324	.0002504	.0002408	.0076641	.0104138	.0024019
%RSD	.3466728	.3104405	.1367860	2.206266	1.356093	6.046617	.3153270
#1	8.182337	62.13471	.1832745	.0109468	.5740021	.1653168	.7629582
#2	8.178698	62.47009	.1827786	.0106616	.5611153	.1671552	.7632723
#3	8.131597	62.13607	.1830866	.0111403	.5603709	.1842028	.7589639

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.405251	7.605701	.0937210	.0052935	1.243162	10.05092	.1018622
Stddev	.068148	.023730	.0034883	.0008773	.015911	.07521	.0027557
%RSD	1.063940	.3120089	3.721977	16.57307	1.279861	.7482595	2.705275
#1	6.408314	7.584484	.0903428	.0062950	1.233594	9.99367	.1002287
#2	6.335623	7.601293	.0935104	.0049244	1.234362	10.13610	.1003142
#3	6.471816	7.631326	.0973098	.0046610	1.261528	10.02300	.1050438

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5084-13A Acquired: 12/29/2024 14:51:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLX7A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7756781	.1540985	.0912802
Stddev	.0036341	.0007878	.0008922
%RSD	.4685075	.5112420	.9774364
#1	.7794735	.1534500	.0911147
#2	.7722302	.1538702	.0922435
#3	.7753306	.1549752	.0904823

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2520.648	32054.08	2492.713	1612.243	1748.112
Stddev	8.961	108.06	13.967	2.741	5.885
%RSD	.3554895	.3371317	.5602999	.1699876	.3366244
#1	2510.722	31987.59	2499.288	1609.363	1741.339
#2	2523.081	32178.77	2476.672	1614.818	1751.025
#3	2528.141	31995.88	2502.178	1612.547	1751.972

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5091-07A Acquired: 12/29/2024 14:55:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1563254	-.015196	2.773560	.2495446	.0266792	75.68661
Stddev	.0018049	.004205	.003599	.0041246	.0031338	.37539
%RSD	1.154595	27.67060	.1297778	1.652831	11.74628	.4959854
#1	.1560185	-.010859	2.773280	.2452564	.0274421	75.37011
#2	.1582641	-.019255	2.777291	.2534833	.0232344	75.58835
#3	.1546936	-.015474	2.770109	.2498940	.0293612	76.10136

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.219705	.0151057	.0236713	191.8499	.1488807	.0528406
Stddev	.016639	.0001070	.0001076	.7641	.0012291	.0004666
%RSD	.7495844	.7080585	.4546398	.3982933	.8255794	.8829499
#1	2.206563	.0151058	.0237833	191.4975	.1501565	.0531009
#2	2.214140	.0149987	.0235687	191.3256	.1477043	.0531190
#3	2.238413	.0152126	.0236619	192.7267	.1487814	.0523020

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3213014	219.1432	9.872336	42.48889	.2225487	.0132782
Stddev	.0023859	1.1561	.053770	.32503	.0018036	.0005749
%RSD	.7425648	.5275401	.5446576	.7649721	.8104367	4.329693
#1	.3237775	218.3173	9.824420	42.45883	.2244247	.0126205
#2	.3211092	218.6478	9.862099	42.17993	.2223940	.0136847
#3	.3190174	220.4644	9.930489	42.82790	.2208275	.0135295

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6319976	.1871687	5.374306	11.16825	F 26.66695	.1234402
Stddev	.0145817	.0076167	.014959	.11642	.03052	.0014573
%RSD	2.307237	4.069433	.2783417	1.042408	.1144658	1.180547
#1	.6253534	.1958988	5.363770	11.03790	26.65701	.1220463
#2	.6487181	.1818800	5.367719	11.26189	26.64264	.1233207
#3	.6219213	.1837273	5.391428	11.20497	26.70121	.1249535

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5091-07A Acquired: 12/29/2024 14:55:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLS0A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100702	4.700652	8.622999	.1352173	.7489119	.1464977
Stddev	.0010406	.025525	.022509	.0026191	.0064544	.0009592
%RSD	10.33341	.5430086	.2610332	1.936978	.8618310	.6547839
#1	.0109567	4.705268	8.634296	.1381135	.7452825	.1469373
#2	.0089245	4.673134	8.597079	.1345235	.7450893	.1453974
#3	.0103295	4.723554	8.637623	.1330149	.7563639	.1471583

Elem	Li6707
Units	ppm
Avg	.0987699
Stddev	.0015917
%RSD	1.611568
#1	.0970179
#2	.1001270
#3	.0991648

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2535.869	32018.93	2495.114	1620.603	1769.846
Stddev	5.016	53.66	4.930	4.635	4.160
%RSD	.1978163	.1675754	.1975736	.2859859	.2350756
#1	2534.631	31957.60	2490.438	1623.180	1769.038
#2	2531.588	32042.02	2500.263	1623.376	1766.149
#3	2541.389	32057.18	2494.640	1615.252	1774.352

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5086-07A Acquired: 12/29/2024 14:58:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0865731	-.018166	.2201254	.2003282	.1088387	73.64460	.5929245
Stddev	.0074972	.004860	.0028608	.0066805	.0008403	.31926	.0005517
%RSD	8.660013	26.75319	1.299641	3.334779	.7720848	.4335178	.0930466
#1	.0851688	-.016722	.2199900	.1950335	.1098063	73.27900	.5934476
#2	.0798774	-.023584	.2173346	.2078339	.1082914	73.78635	.5929779
#3	.0946733	-.014191	.2230515	.1981172	.1084185	73.86844	.5923481

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0253536	.0033484	249.1310	.1295266	.0566135	.4493850	208.3362
Stddev	.0001707	.0000576	1.0597	.0012771	.0006258	.0062189	.5726
%RSD	.6733478	1.720659	.4253406	.9859399	1.105347	1.383865	.2748533
#1	.0253515	.0033267	247.9453	.1294511	.0572493	.4486312	207.6965
#2	.0251840	.0034138	249.4621	.1308398	.0559982	.4559465	208.8007
#3	.0255254	.0033048	249.9855	.1282890	.0565929	.4435774	208.5114

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.147805	78.68746	.1934038	.0116224	.7144769	.1825265	1.368802
Stddev	.014229	.51444	.0007426	.0011717	.0115886	.0130267	.005873
%RSD	.3430565	.6537793	.3839463	10.08150	1.621969	7.136891	.4290312
#1	4.132700	78.14037	.1941245	.0110669	.7215464	.1795328	1.362118
#2	4.160957	79.16143	.1934458	.0129685	.7207814	.1967895	1.371158
#3	4.149757	78.76058	.1926411	.0108317	.7011028	.1712572	1.373132

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.70183	8.432399	.1220166	.0022396	.7515406	9.335412	.0263091
Stddev	.09060	.019809	.0011968	.0008459	.0029390	.010109	.0028578
%RSD	.8465447	.2349123	.9808795	37.76956	.3910652	.1082826	10.86243
#1	10.59733	8.439601	.1220965	.0030161	.7532089	9.336289	.0232086
#2	10.75003	8.409996	.1207818	.0013382	.7532657	9.345054	.0268811
#3	10.75814	8.447598	.1231715	.0023644	.7481471	9.324894	.0288377

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5086-07A Acquired: 12/29/2024 14:58:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLN2A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9801603	.0189684	.1042786
Stddev	.0029120	.0002300	.0017600
%RSD	.2970966	1.212511	1.687819
#1	.9779350	.0191043	.1036027
#2	.9790898	.0187028	.1062764
#3	.9834560	.0190980	.1029567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2561.310	32491.52	2540.682	1628.658	1764.152
Stddev	3.203	63.25	4.586	7.594	3.993
%RSD	.1250626	.1946540	.1804936	.4662457	.2263387
#1	2562.089	32423.45	2536.450	1635.874	1762.517
#2	2564.052	32502.66	2540.041	1629.364	1768.703
#3	2557.789	32548.46	2545.554	1620.736	1761.236

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5089-01A Acquired: 12/29/2024 15:02:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLZ4A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6143939	-.010037	1.631049	.1890944	.1116075	71.48615
Stddev	.0036927	.006091	.004036	.0066033	.0056254	1.75397
%RSD	.6010330	60.68756	.2474657	3.492042	5.040369	2.453581
#1	.6120908	-.016924	1.627612	.1918552	.1111748	72.04511
#2	.6186532	-.007833	1.630042	.1815588	.1062108	69.52082
#3	.6124378	-.005355	1.635494	.1938692	.1174367	72.89252

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.449383	.0117914	.0071671	39.44354	.1704611	.0806135
Stddev	.032006	.0001663	.0001662	.85991	.0004279	.0020619
%RSD	2.208234	1.410225	2.318352	2.180109	.2510195	2.557817
#1	1.459768	.0119759	.0071533	39.75320	.1708594	.0790054
#2	1.413475	.0116530	.0073398	38.47169	.1705152	.0829381
#3	1.474908	.0117454	.0070083	40.10574	.1700088	.0798970

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7970199	149.7355	8.483049	20.44949	.2028421	.0136241
Stddev	.0123784	3.5016	.186254	.56980	.0003069	.0006022
%RSD	1.553084	2.338505	2.195607	2.786364	.1513175	4.419868
#1	.7978307	151.1114	8.548852	20.78053	.2027962	.0133460
#2	.7842560	145.7550	8.272826	19.79155	.2025608	.0132113
#3	.8089730	152.3402	8.627471	20.77639	.2031694	.0143151

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4227603	.1920867	2.497116	7.906988	F 13.01580	.0776889
Stddev	.0219683	.0079381	.005583	.234680	.04709	.0032463
%RSD	5.196395	4.132546	.2235805	2.968011	.3618172	4.178601
#1	.4011780	.1832482	2.500352	8.035758	12.97594	.0785490
#2	.4450953	.1944029	2.500327	7.636112	13.00369	.0740992
#3	.4220077	.1986091	2.490669	8.049094	13.06776	.0804185

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5089-01A Acquired: 12/29/2024 15:02:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLZ4A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0148294	4.540636	8.656840	.0572546	1.068605	.1398781
Stddev	.0005031	.018150	.217376	.0014212	.025433	.0032903
%RSD	3.392494	.3997200	2.511031	2.482198	2.380021	2.352259
#1	.0154070	4.527408	8.746300	.0578816	1.076527	.1405332
#2	.0144869	4.533172	8.409009	.0556278	1.040153	.1363095
#3	.0145943	4.561328	8.815211	.0582545	1.089134	.1427915

Elem	Li6707
Units	ppm
Avg	.0671764
Stddev	.0046948
%RSD	6.988757
#1	.0699651
#2	.0617561
#3	.0698081

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2469.939	31291.88	2397.246	1575.725	1825.307
Stddev	4.486	118.97	55.118	8.907	1.617
%RSD	.1816137	.3801980	2.299203	.5652855	.0885642
#1	2468.905	31292.98	2379.045	1570.833	1826.034
#2	2474.851	31172.36	2459.162	1570.336	1826.432
#3	2466.060	31410.30	2353.530	1586.006	1823.454

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5083-03A Acquired: 12/29/2024 15:06:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLK0A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1385777	-.012461	2.487664	.1858050	.0253545	73.12727
Stddev	.0033771	.001043	.009315	.0058930	.0024154	.27910
%RSD	2.436953	8.367126	.3744439	3.171610	9.526504	.3816699
#1	.1347107	-.012547	2.495920	.1805836	.0280922	72.98519
#2	.1409461	-.013458	2.477565	.1846368	.0235241	72.94779
#3	.1400765	-.011378	2.489506	.1921946	.0244474	73.44883

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.516747	.0123416	.0085758	80.24768	.2191616	.0442363
Stddev	.009238	.0001281	.0001512	.23530	.0005667	.0004617
%RSD	.6090868	1.038078	1.763617	.2932137	.2585938	1.043630
#1	1.513209	.0121940	.0086718	80.12539	.2189608	.0447392
#2	1.509800	.0124059	.0086540	80.09872	.2187225	.0438317
#3	1.527231	.0124247	.0084014	80.51895	.2198014	.0441380

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2985752	172.2956	6.276718	32.22240	.1972611	.0142581
Stddev	.0093150	.7981	.023566	.22039	.0008892	.0011448
%RSD	3.119799	.4632252	.3754577	.6839656	.4507585	8.028922
#1	.3005752	171.7830	6.261443	32.14371	.1982648	.0144899
#2	.2884227	171.8885	6.264851	32.05216	.1965719	.0130152
#3	.3067277	173.2151	6.303859	32.47134	.1969466	.0152693

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4653500	.1941312	2.264407	6.889711	F 13.37925	.1020821
Stddev	.0180540	.0143647	.022542	.108042	.03006	.0020693
%RSD	3.879668	7.399492	.9954929	1.568158	.2246835	2.027088
#1	.4552189	.1789630	2.287395	6.838566	13.38815	.1005712
#2	.4861943	.2075281	2.242339	6.816738	13.34574	.1012346
#3	.4546368	.1959026	2.263487	7.013828	13.40385	.1044407

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5083-03A Acquired: 12/29/2024 15:06:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLK0A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063168	2.452445	8.762382	.1377136	.8774394	.0289534
Stddev	.0004459	.017371	.030103	.0028919	.0057209	.0008420
%RSD	7.058731	.7083013	.3435433	2.099942	.6520013	2.908068
#1	.0067023	2.445560	8.780400	.1401199	.8754176	.0291777
#2	.0058285	2.439572	8.727631	.1345054	.8730039	.0296605
#3	.0064196	2.472203	8.779116	.1385157	.8838966	.0280220

Elem	Li6707
Units	ppm
Avg	.0890806
Stddev	.0028187
%RSD	3.164223
#1	.0913224
#2	.0859162
#3	.0900031

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2587.444	32677.89	2495.124	1652.281	1820.139
Stddev	8.356	69.29	3.268	10.459	7.426
%RSD	.3229554	.2120386	.1309791	.6330045	.4079697
#1	2579.425	32755.24	2498.308	1641.220	1814.263
#2	2596.101	32656.96	2491.778	1662.010	1828.485
#3	2586.806	32621.49	2495.286	1653.614	1817.668

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV042 Acquired: 12/29/2024 15:10:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV042 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.090020	4.807838	24.71948	5.135367	5.066547	410.1758	10.29799
Stddev	.029011	.018462	.10910	.028833	.029267	1.6829	.04398
%RSD	.5699612	.3839908	.4413379	.5614679	.5776582	.4102844	.4270992
#1	5.056564	4.791206	24.62946	5.113290	5.048414	411.5610	10.33825
#2	5.108223	4.827702	24.84081	5.167988	5.100311	410.6634	10.30467
#3	5.105272	4.804606	24.68816	5.124822	5.050915	408.3030	10.25105

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5107891	2.501004	405.2529	15.33546	2.418587	14.80594	406.6695
Stddev	.0026980	.011399	1.4368	.01571	.011666	.04938	1.5710
%RSD	.5282105	.4557677	.3545423	.1024369	.4823654	.3335374	.3863152
#1	.5123104	2.493257	406.6587	15.35351	2.411373	14.83030	408.1878
#2	.5123828	2.514093	405.3131	15.32492	2.432046	14.83840	406.7702
#3	.5076739	2.495663	403.7870	15.32794	2.412341	14.74910	405.0506

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.68733	401.2110	2.519926	1.267237	419.4469	2.480565	15.20779
Stddev	.04900	1.6274	.011016	.001630	2.1343	.017196	.07684
%RSD	.3336365	.4056220	.4371428	.1285891	.5088255	.6932196	.5052739
#1	14.73121	402.4857	2.514056	1.266526	419.5178	2.497356	15.17161
#2	14.69634	401.7694	2.532634	1.269101	421.5449	2.481349	15.29604
#3	14.63445	399.3779	2.513088	1.266084	417.2781	2.462991	15.15571

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.0623	5.022297	4.974374	5.031421	5.145387	4.814200	5.013641
Stddev	.5504	.017467	.031731	.030484	.019080	.024758	.023538
%RSD	.3667649	.3477804	.6378905	.6058664	.3708116	.5142722	.4694787
#1	149.9504	5.005812	5.003812	5.020170	5.134527	4.835775	4.992613
#2	150.6600	5.040603	4.978546	5.065931	5.167418	4.819656	5.039068
#3	149.5765	5.020477	4.940763	5.008162	5.134216	4.787169	5.009240

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV042 Acquired: 12/29/2024 15:10:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV042 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.044952	4.670210	5.137119
Stddev	.024247	.013418	.010926
%RSD	.4806097	.2873056	.2126918
#1	5.068708	4.671110	5.148964
#2	5.045905	4.683156	5.134957
#3	5.020243	4.656365	5.127435

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1806.725	23578.20	1916.660	1138.151	1537.161
Stddev	10.986	35.67	12.611	6.156	5.798
%RSD	.6080867	.1512863	.6579795	.5408608	.3772034
#1	1802.461	23544.56	1908.070	1139.476	1535.624
#2	1798.511	23574.44	1910.771	1131.441	1532.286
#3	1819.205	23615.60	1931.138	1143.537	1543.573

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB042 Acquired: 12/29/2024 15:13:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB042 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002390	-.001376	.0015866	.0009529	-.001983	.0235569	-.001825
Stddev	.005665	.002815	.0009105	.0062868	.003624	.0071187	.001312
%RSD	237.0132	204.5625	57.38974	659.7395	182.7133	30.21897	71.88299
#1	.001805	-.000440	.0018184	.0059107	-.003610	.0154589	-.003187
#2	-.008834	.000852	.0023588	.0030663	.002169	.0263843	-.001716
#3	-.000141	-.004540	.0005825	-.006118	-.004509	.0288276	-.000571

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000330	-.000009	-.063369	.0005909	-.000001	-.006092	.0361883
Stddev	.0001803	.000042	.025210	.0005956	.000064	.003146	.0391295
%RSD	546.1321	476.5195	39.78346	100.8013	5667.294	51.64041	108.1275
#1	.0001577	.000034	-.036008	.0003443	.000058	-.009596	.0790295
#2	.0001151	-.000012	-.085658	.0012702	.000007	-.005170	.0023340
#3	-.000174	-.000049	-.068440	.0001582	-.000068	-.003510	.0272016

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016971	-.014885	-.000242	.0001312	.0137558	-.001935	.0016951
Stddev	.0009069	.113480	.000249	.0021491	.0078256	.009994	.0005117
%RSD	53.43709	762.3970	102.7556	1637.765	56.88969	516.4043	30.18706
#1	.0018384	.106160	-.000486	-.002277	.0153530	.005276	.0014521
#2	.0025251	-.118868	.000011	.001853	.0052548	.002262	.0022830
#3	.0007279	-.031946	-.000252	.000818	.0206597	-.013344	.0013501

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.634322	.0025813	.0086768	.0001695	.0031886	.0002454	-.000252
Stddev	.123152	.0011067	.0009902	.0002445	.0045971	.0001079	.000711
%RSD	19.41472	42.87507	11.41241	144.2669	144.1745	43.96872	281.7365
#1	-.533891	.0019567	.0098118	.0003411	.0014717	.0001839	-.000563
#2	-.771724	.0019280	.0082290	.0002779	-.000303	.0003700	-.000755
#3	-.597350	.0038591	.0079896	-.000110	.008397	.0001823	.000561

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB042 Acquired: 12/29/2024 15:13:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB042 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0037700	.0003237	.0017397
Stddev	.0029819	.0001641	.0046890
%RSD	79.09565	50.68346	269.5373
#1	.0052052	.0001549	-.003587
#2	.0003419	.0004826	.003564
#3	.0057630	.0003337	.005243

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2067.723	26083.92	2008.492	1315.678	1869.303
Stddev	3.560	202.42	24.552	16.631	4.988
%RSD	.1721803	.7760466	1.222420	1.264097	.2668313
#1	2063.956	26122.06	2003.423	1323.356	1863.726
#2	2071.032	25865.14	2035.183	1296.594	1873.339
#3	2068.180	26264.56	1986.869	1327.083	1870.843

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165759BL Acquired: 12/29/2024 15:18:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS759 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004843	.0005259	-.001625	-.003342	-.001807	-.007107	-.001052
Stddev	.002103	.0025908	.002039	.002341	.000309	.012968	.001574
%RSD	43.43117	492.5939	125.4301	70.04832	17.10971	182.4605	149.5571
#1	-.002444	-.002430	.000445	-.000672	-.001756	.006245	.000694
#2	-.006370	.001607	-.003630	-.004313	-.001526	-.007914	-.001490
#3	-.005714	.002401	-.001690	-.005040	-.002138	-.019654	-.002361

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000099	.0000328	-.017462	-.000137	.0002095	-.003824	-.017255
Stddev	.000021	.0000434	.026673	.000141	.0004252	.005731	.037552
%RSD	21.16315	132.3146	152.7449	102.7068	202.9660	149.8756	217.6242
#1	-.000100	.0000162	-.010887	.000017	-.000280	.002710	.006639
#2	-.000078	.0000002	.005308	-.000169	.000487	-.006182	-.060538
#3	-.000120	.0000821	-.046808	-.000260	.000422	-.008000	.002134

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000316	-.079684	-.000109	-.000796	.0415248	-.006198	-.000603
Stddev	.001320	.073027	.000490	.000107	.0383232	.004278	.000336
%RSD	417.4644	91.64629	447.1307	13.49366	92.28997	69.01902	55.65730
#1	.000782	-.149658	-.000013	-.000672	.0523492	-.009922	-.000472
#2	-.001781	-.003945	.000325	-.000853	.0732716	-.007146	-.000353
#3	.000051	-.085449	-.000640	-.000863	-.001046	-.001526	-.000985

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.700509	.0050962	.0016237	.0000102	.0038579	-.000780	-.000881
Stddev	.146401	.0005851	.0017848	.0004522	.0006092	.000480	.002098
%RSD	20.89916	11.48137	109.9196	4440.547	15.79228	61.50929	238.2105
#1	-.861833	.0045785	.0035927	-.000324	.0035017	-.001200	-.000403
#2	-.663599	.0049791	.0011661	.000525	.0045613	-.000257	.000938
#3	-.576096	.0057310	.0001123	-.000170	.0035106	-.000884	-.003177

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165759BL Acquired: 12/29/2024 15:18:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS759 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0056781	.0000138	-.008868
Stddev	.0047220	.0002003	.002610
%RSD	83.16033	1450.386	29.43106
#1	.0093772	-.000148	-.010878
#2	.0003595	.000238	-.005919
#3	.0072978	-.000048	-.009808

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2041.342	26005.52	1933.554	1316.409	1845.809
Stddev	1.945	141.49	15.469	4.265	3.916
%RSD	.0952824	.5440742	.8000311	.3240133	.2121484
#1	2042.831	25927.57	1932.063	1314.906	1850.257
#2	2039.141	25920.13	1949.715	1313.098	1844.290
#3	2042.054	26168.84	1918.885	1321.222	1842.880

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165759BS Acquired: 12/29/2024 15:22:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS759 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196275	.0506316	.0174719	.0605038	.1072894	.4148083
Stddev	.0020359	.0008518	.0024766	.0016140	.0052742	.0171628
%RSD	10.37257	1.682413	14.17490	2.667653	4.915826	4.137518
#1	.0188554	.0512765	.0177314	.0590889	.1055359	.3978860
#2	.0180906	.0509523	.0148758	.0601607	.1132170	.4322019
#3	.0219365	.0496660	.0198086	.0622618	.1031154	.4143371

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3980744	.0100016	.0095474	9.698606	.0195880	.1036731
Stddev	.0080376	.0003498	.0000108	.146474	.0005862	.0003566
%RSD	2.019124	3.497139	.1131685	1.510257	2.992918	.3439629
#1	.4034085	.0102748	.0095585	9.796379	.0190501	.1040614
#2	.3888299	.0096074	.0095469	9.530200	.0202129	.1035976
#3	.4019849	.0101226	.0095369	9.769240	.0195010	.1033603

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0490501	.1880015	.0307623	9.831958	.0771451	.0180583
Stddev	.0064490	.0032427	.0002267	.305447	.0003323	.0005514
%RSD	13.14789	1.724829	.7368962	3.106673	.4306976	3.053195
#1	.0521599	.1903348	.0307355	10.01111	.0769598	.0183108
#2	.0416354	.1893710	.0310011	9.47927	.0775287	.0184381
#3	.0533549	.1842988	.0305501	10.00549	.0769467	.0174259

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.040761	.0897449	.1199066	8.325803	.0208218	F .0014744
Stddev	.150053	.0130695	.0004788	.260104	.0014115	.0011167
%RSD	1.659739	14.56290	.3993290	3.124070	6.779204	75.73772
#1	9.198052	.0897278	.1194329	8.533510	.0223771	.0021099
#2	8.899182	.0766839	.1203904	8.034074	.0196221	.0001850
#3	9.025049	.1028228	.1198965	8.409826	.0204661	.0021283

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165759BS Acquired: 12/29/2024 15:22:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS759 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0203317	.1821298	F .4688368	.0111539	.1958039	.1951132
Stddev	.0001236	.0063949	.0083335	.0017601	.0048201	.0032279
%RSD	.6080200	3.511162	1.777492	15.77963	2.461703	1.654392
#1	.0203968	.1788859	.4754047	.0124519	.2004525	.1961285
#2	.0201891	.1780071	.4594623	.0091506	.1961303	.1914997
#3	.0204092	.1894965	.4716434	.0118592	.1908289	.1977114

Elem	Li6707
Units	ppm
Avg	F .0187691
Stddev	.0015178
%RSD	8.086737
#1	.0204318
#2	.0184176
#3	.0174579

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2055.960	25933.45	1955.397	1320.858	1858.986
Stddev	8.245	117.96	40.440	5.042	6.423
%RSD	.4010168	.4548648	2.068139	.3817464	.3455061
#1	2046.446	26033.26	1917.017	1324.236	1851.792
#2	2060.423	25803.27	1997.623	1315.062	1861.018
#3	2061.011	25963.81	1951.551	1323.276	1864.146

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165820BL Acquired: 12/29/2024 15:26:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS820 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002705	.0011539	-.002103	-.007216	-.002143	.0106295	-.001292
Stddev	.004116	.0050871	.001587	.003538	.001971	.0078446	.000369
%RSD	152.1463	440.8698	75.48026	49.02975	91.96824	73.80016	28.56615
#1	.001818	.0067383	-.000311	-.011003	-.001480	.0053032	-.000866
#2	-.006230	-.000060	-.002665	-.003997	-.004361	.0196378	-.001485
#3	-.003703	-.003216	-.003332	-.006647	-.000589	.0069476	-.001525

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000131	-.000050	-.056947	.0002573	.0003312	.0007846	-.005701
Stddev	.000049	.000092	.025046	.0008507	.0005080	.0018987	.030160
%RSD	37.78125	184.2862	43.98024	330.5409	153.3877	242.0073	529.0161
#1	-.000074	.000030	-.084632	.0003337	-.000215	-.000752	-.011626
#2	-.000154	-.000029	-.035862	.0010673	.000419	.000198	-.032458
#3	-.000165	-.000150	-.050348	-.000629	.000790	.002907	.026981

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002096	.0316378	-.000096	-.000024	.0169500	.0000883	-.001888
Stddev	.002536	.0150017	.000097	.000569	.0342302	.0044879	.000466
%RSD	121.0049	47.41713	100.6398	2415.343	201.9481	5083.020	24.70340
#1	.000373	.0143153	-.000018	-.000527	.0560020	.0024344	-.002288
#2	-.001966	.0403150	-.000067	.000594	-.007859	.0029168	-.001376
#3	-.004694	.0402831	-.000205	-.000138	.002707	-.005086	-.001999

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.728831	.0033187	-.003108	.0000072	.0047160	-.000187	-.001878
Stddev	.168203	.0007048	.001263	.0006713	.0036511	.000873	.001688
%RSD	23.07840	21.23652	40.64486	9289.398	77.42063	466.5306	89.84573
#1	-.704128	.0038668	-.003665	.0007657	.0036500	-.001181	-.003627
#2	-.574346	.0035655	-.001662	-.000233	.0087815	.000459	-.000259
#3	-.908019	.0025237	-.003997	-.000511	.0017165	.000160	-.001749

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165820BL Acquired: 12/29/2024 15:26:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS820 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0038422	-.000060	-.010591
Stddev	.0030051	.000446	.000995
%RSD	78.21092	747.0050	9.399430
#1	.0060886	.000313	-.011241
#2	.0004287	.000061	-.011087
#3	.0050095	-.000553	-.009445

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2045.955	25962.04	1923.641	1310.136	1844.175
Stddev	7.231	7.98	4.404	1.560	5.881
%RSD	.3534228	.0307195	.2289442	.1190755	.3188832
#1	2052.927	25953.02	1919.728	1310.019	1850.042
#2	2046.449	25964.97	1928.410	1311.751	1844.202
#3	2038.490	25968.15	1922.785	1308.637	1838.280

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165820BS Acquired: 12/29/2024 15:30:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS820 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173267	.0487259	.0170998	.0648023	.1145190	.4135770
Stddev	.0015323	.0017198	.0021518	.0039010	.0046228	.0216948
%RSD	8.843408	3.529606	12.58368	6.019836	4.036682	5.245651
#1	.0189168	.0472519	.0194757	.0677618	.1120996	.3944796
#2	.0158597	.0483105	.0152821	.0603817	.1116080	.4371661
#3	.0172035	.0506154	.0165416	.0662633	.1198493	.4090854

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4033031	.0100514	.0096594	9.787558	.0200866	.1044018
Stddev	.0047462	.0001995	.0001444	.025454	.0008067	.0010465
%RSD	1.176840	1.984431	1.494456	.2600685	4.015963	1.002408
#1	.4081706	.0098771	.0096837	9.777309	.0209985	.1044983
#2	.3986882	.0100080	.0095045	9.768825	.0194661	.1033104
#3	.4030506	.0102689	.0097901	9.816539	.0197952	.1053968

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0389512	.1941028	.0289552	9.966706	.0767498	.0185795
Stddev	.0033941	.0295096	.0023366	.026869	.0010297	.0002021
%RSD	8.713603	15.20309	8.069711	.2695893	1.341623	1.087856
#1	.0413032	.2270186	.0288790	9.973913	.0767958	.0187487
#2	.0350603	.1700141	.0266576	9.936968	.0756978	.0183557
#3	.0404901	.1852758	.0313289	9.989236	.0777557	.0186341

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.101058	.0944719	.1199000	8.612592	.0223157	F -.002306
Stddev	.085126	.0042317	.0006659	.154643	.0017332	.001926
%RSD	.9353387	4.479270	.5553508	1.795545	7.766795	83.52609
#1	9.198826	.0917734	.1191655	8.612126	.0203173	-.003819
#2	9.060974	.0922933	.1200703	8.767467	.0234089	-.000138
#3	9.043374	.0993489	.1204641	8.458182	.0232210	-.002960

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: PB165820BS Acquired: 12/29/2024 15:30:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS820 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197797	.1862658	F .4725844	.0125189	.1994082	.1980596
Stddev	.0003801	.0060694	.0011337	.0005179	.0041009	.0005211
%RSD	1.921763	3.258454	.2398993	4.136678	2.056524	.2631299
#1	.0201182	.1926606	.4737410	.0128511	.2031186	.1985198
#2	.0198526	.1855516	.4714750	.0119222	.2001010	.1981652
#3	.0193684	.1805851	.4725373	.0127835	.1950051	.1974937

Elem	Li6707
Units	ppm
Avg	F .0142244
Stddev	.0065774
%RSD	46.23985
#1	.0070747
#2	.0155806
#3	.0200180

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2052.216	25990.44	1957.508	1320.326	1856.207
Stddev	2.872	142.51	11.896	1.999	3.034
%RSD	.1399396	.5482995	.6077214	.1514144	.1634576
#1	2050.335	25849.13	1944.550	1318.107	1852.978
#2	2050.791	25988.08	1960.039	1321.987	1858.999
#3	2055.521	26134.12	1967.935	1320.883	1856.646

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-01 Acquired: 12/29/2024 15:34:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1520128	-.114355	.7337660	.1534442	.0521918	76.93617
Stddev	.0038004	.001753	.0035860	.0047819	.0004075	.78974
%RSD	2.500088	1.532570	.4887183	3.116367	.7807885	1.026491
#1	.1543349	-.112661	.7338370	.1578739	.0525334	77.49308
#2	.1540765	-.116161	.7301449	.1483745	.0523014	76.03235
#3	.1476270	-.114243	.7373160	.1540841	.0517408	77.28307

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7040602	.0198936	.0153430	322.9644	.3503315	.0498919
Stddev	.0078354	.0004411	.0000728	2.6901	.0014800	.0012236
%RSD	1.112888	2.217481	.4746761	.8329538	.4224647	2.452563
#1	.7106401	.0200194	.0154268	324.1699	.3504274	.0496725
#2	.6953923	.0194033	.0153072	319.8824	.3517612	.0512104
#3	.7061482	.0202582	.0152951	324.8410	.3488058	.0487929

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4372965	317.5647	5.581443	65.22167	.4830818	-.008478
Stddev	.0028116	2.0428	.056374	.49796	.0013869	.001037
%RSD	.6429544	.6432590	1.010024	.7634908	.2870937	12.22835
#1	.4405301	318.9774	5.612781	65.74526	.4845862	-.008632
#2	.4359301	315.2225	5.516363	64.75407	.4818542	-.009429
#3	.4354292	318.4943	5.615185	65.16568	.4828049	-.007373

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.728889	.2294588	2.459463	9.551623	F 13.58843	.1729652
Stddev	.020973	.0066495	.010386	.214761	.02991	.0043822
%RSD	1.213065	2.897892	.4222915	2.248420	.2201041	2.533566
#1	1.728906	.2362865	2.464739	9.743911	13.59688	.1780162
#2	1.707909	.2290867	2.466153	9.319865	13.55521	.1701764
#3	1.749854	.2230032	2.447498	9.591095	13.61321	.1707030

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-01 Acquired: 12/29/2024 15:34:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0450747	4.560633	10.46359	.0594622	1.148664	.2580198
Stddev	.0005865	.011547	.06879	.0019638	.007514	.0046839
%RSD	1.301201	.2531968	.6574332	3.302579	.6541193	1.815338
#1	.0446358	4.568594	10.45273	.0599797	1.153515	.2591743
#2	.0448475	4.547389	10.40087	.0611153	1.140009	.2528666
#3	.0457408	4.565916	10.53717	.0572914	1.152468	.2620186

Elem	Li6707
Units	ppm
Avg	.0896571
Stddev	.0043556
%RSD	4.858017
#1	.0896311
#2	.0940257
#3	.0853147

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2274.965	28861.35	2238.454	1453.502	1755.474
Stddev	4.642	175.52	19.666	13.423	1.562
%RSD	.2040653	.6081565	.8785425	.9234802	.0889951
#1	2274.033	28658.91	2223.448	1440.770	1755.348
#2	2270.859	28954.11	2260.717	1452.213	1753.979
#3	2280.003	28971.03	2231.197	1467.522	1757.096

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-02 Acquired: 12/29/2024 15:37:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1250496	-.057609	.1082866	.0764064	.0191158	66.70339
Stddev	.0058668	.008949	.0050544	.0011736	.0019318	.33916
%RSD	4.691567	15.53386	4.667596	1.535962	10.10593	.5084662
#1	.1213527	-.067694	.1128650	.0756275	.0184205	66.33871
#2	.1318142	-.050617	.1028628	.0758355	.0176278	67.00937
#3	.1219819	-.054514	.1091319	.0777562	.0212990	66.76210

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5066620	.0131157	.0035600	F 947.3019	.1116257	.0636644
Stddev	.0023748	.0001403	.0000742	4.5955	.0001424	.0010749
%RSD	.4687231	1.069994	2.085218	.4851145	.1275689	1.688388
#1	.5046077	.0129711	.0036441	942.6719	.1115591	.0648758
#2	.5092623	.0132513	.0035324	951.8621	.1117892	.0628246
#3	.5061160	.0131247	.0035036	947.3715	.1115288	.0632928

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1593052	208.3379	2.809598	136.4294	.2581239	-.007176
Stddev	.0055799	1.6483	.014956	.8024	.0006154	.001244
%RSD	3.502623	.7911638	.5323127	.5881774	.2383977	17.33417
#1	.1648848	206.8606	2.802502	135.6575	.2579520	-.006529
#2	.1537250	210.1158	2.826781	137.2593	.2588069	-.008610
#3	.1593059	208.0374	2.799511	136.3714	.2576128	-.006389

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.201917	.1613753	.4805886	9.799476	4.833579	.1427338
Stddev	.010901	.0036295	.0029304	.045888	.005716	.0038797
%RSD	.9069564	2.249089	.6097424	.4682715	.1182544	2.718144
#1	1.204941	.1585997	.4819694	9.771269	4.832527	.1392631
#2	1.210986	.1654825	.4825735	9.852425	4.828462	.1469223
#3	1.189823	.1600438	.4772229	9.774734	4.839748	.1420160

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-02 Acquired: 12/29/2024 15:37:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0376676	1.875643	8.740723	.0327212	1.443594	1.191898
Stddev	.0004383	.008762	.038791	.0028915	.004417	.003524
%RSD	1.163489	.4671360	.4437912	8.836658	.3059740	.2956494
#1	.0381322	1.873560	8.758741	.0294391	1.441549	1.187858
#2	.0372615	1.868111	8.767227	.0348927	1.448663	1.194336
#3	.0376089	1.885259	8.696200	.0338318	1.440570	1.193502

Elem	Li6707
Units	ppm
Avg	.1147511
Stddev	.0022130
%RSD	1.928486
#1	.1166954
#2	.1123430
#3	.1152151

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2209.536	28082.83	2237.847	1407.846	1633.277
Stddev	5.739	167.56	18.163	10.454	4.549
%RSD	.2597529	.5966558	.8116170	.7425658	.2785439
#1	2211.095	28275.81	2243.932	1417.124	1633.276
#2	2214.335	27974.30	2217.423	1396.519	1637.827
#3	2203.179	27998.38	2252.186	1409.893	1628.728

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-03 Acquired: 12/29/2024 15:41:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0365810	.0048219	.0674179	.0082816	-.004523	45.89449
Stddev	.0085648	.0021114	.0019064	.0013165	.002221	.30957
%RSD	23.41316	43.78802	2.827666	15.89689	49.10386	.6745303
#1	.0353217	.0024319	.0682574	.0097873	-.005697	45.60070
#2	.0457057	.0056000	.0652359	.0077095	-.001961	46.21773
#3	.0287156	.0064338	.0687605	.0073479	-.005911	45.86502

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.178367	.0074423	.0035811	F 1481.549	.0958031	.0757690
Stddev	.007060	.0002270	.0000803	21.818	.0008885	.0014602
%RSD	.5991644	3.050366	2.241524	1.472653	.9273748	1.927179
#1	1.171303	.0077027	.0035699	1469.031	.0957911	.0751297
#2	1.185424	.0072860	.0036664	1468.874	.0949207	.0747375
#3	1.178376	.0073382	.0035071	1506.742	.0966975	.0774398

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1003270	109.6242	2.427533	614.8403	.1759820	-.004276
Stddev	.0131467	.5967	.008796	3.4561	.0014698	.001364
%RSD	13.10388	.5443274	.3623533	.5621091	.8351736	31.89364
#1	.1128463	109.0284	2.420887	612.0167	.1749972	-.005837
#2	.1015027	110.2218	2.437508	618.6944	.1752775	-.003677
#3	.0866318	109.6223	2.424204	613.8098	.1776714	-.003314

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.727729	.1575120	.3483177	7.436402	2.812374	.1122150
Stddev	.019342	.0073138	.0008828	.044067	.010342	.0046769
%RSD	1.119529	4.643306	.2534408	.5925860	.3677178	4.167782
#1	1.740086	.1492119	.3480386	7.388304	2.804480	.1158150
#2	1.737662	.1603120	.3493063	7.446067	2.808562	.1139012
#3	1.705438	.1630121	.3476082	7.474833	2.824081	.1069289

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-03 Acquired: 12/29/2024 15:41:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0498131	25.62220	7.973470	.0308859	1.141344	13.13636
Stddev	.0005905	.09033	.067824	.0021599	.005977	.13852
%RSD	1.185381	.3525306	.8506254	6.993257	.5236884	1.054491
#1	.0504416	25.52612	7.920897	.0303301	1.146109	13.02798
#2	.0497279	25.63512	8.050028	.0332694	1.143286	13.08867
#3	.0492699	25.70538	7.949484	.0290582	1.134637	13.29243

Elem	Li6707
Units	ppm
Avg	.0868183
Stddev	.0042005
%RSD	4.838287
#1	.0843833
#2	.0844029
#3	.0916686

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1969.365	25375.67	2035.827	1256.061	1482.990
Stddev	3.772	78.76	10.044	5.344	1.873
%RSD	.1915324	.3103625	.4933578	.4254274	.1263250
#1	1965.329	25445.59	2046.446	1261.647	1482.797
#2	1969.964	25391.06	2026.479	1255.537	1481.221
#3	1972.801	25290.35	2034.557	1250.998	1484.953

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-04 Acquired: 12/29/2024 15:45:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0426554	-.013937	.3026799	.0346444	.0003224	51.47046	.4964841
Stddev	.0039625	.004812	.0032211	.0031793	.0030151	.11699	.0013903
%RSD	9.289495	34.52316	1.064210	9.176821	935.1833	.2273035	.2800379
#1	.0380799	-.008395	.3056779	.0365065	.0037177	51.57487	.4980771
#2	.0449463	-.017043	.2992744	.0309735	-.002042	51.34402	.4955153
#3	.0449399	-.016374	.3030873	.0364533	-.000708	51.49250	.4958597

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095115	.0038448	629.4422	.2602721	.0488833	.1030509	137.1971
Stddev	.0000099	.0000825	1.1875	.0014229	.0009226	.0059265	.6536
%RSD	.1038138	2.144890	.1886518	.5466805	1.887406	5.751060	.4763909
#1	.0095194	.0038255	630.4606	.2599394	.0496913	.1076960	137.7093
#2	.0095004	.0039353	628.1379	.2618318	.0478780	.0963762	136.4610
#3	.0095146	.0037738	629.7280	.2590450	.0490806	.1050805	137.4211

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.957486	183.2359	.1392411	-.003402	1.318546	.1878719	.5334331
Stddev	.018669	.7652	.0015984	.000868	.049079	.0066554	.0015575
%RSD	.3133623	.4176049	1.147936	25.50066	3.722235	3.542529	.2919738
#1	5.977367	184.1027	.1376828	-.002950	1.368049	.1871549	.5348638
#2	5.954762	182.6539	.1408768	-.004403	1.317686	.1816041	.5317741
#3	5.940329	182.9513	.1391636	-.002854	1.269902	.1948568	.5336614

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.562126	3.433210	.0935740	.0184469	4.148562	9.208271	.0291013
Stddev	.066813	.002834	.0025329	.0001775	.007918	.070837	.0016744
%RSD	1.875647	.0825501	2.706786	.9622994	.1908652	.7692773	5.753570
#1	3.535079	3.431515	.0963944	.0182443	4.139443	9.289906	.0299794
#2	3.513076	3.431634	.0914934	.0185212	4.152556	9.163008	.0271705
#3	3.638221	3.436482	.0928342	.0185751	4.153688	9.171901	.0301539

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-04 Acquired: 12/29/2024 15:45:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.437155	2.125955	.0539861
Stddev	.007927	.005396	.0011685
%RSD	.5515697	.2538259	2.164437
#1	1.436742	2.123582	.0546652
#2	1.445280	2.122152	.0546563
#3	1.429442	2.132131	.0526369

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2107.701	26731.14	2086.843	1349.571	1639.920
Stddev	7.016	20.00	8.565	4.708	4.419
%RSD	.3328865	.0748098	.4104122	.3488329	.2694930
#1	2111.240	26749.30	2077.716	1344.337	1640.332
#2	2112.243	26709.71	2094.704	1353.459	1644.120
#3	2099.620	26734.42	2088.110	1350.918	1635.310

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-05 Acquired: 12/29/2024 15:49:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0907209	-.057935	.3447102	.0925555	.0261545	81.14196	.7530780
Stddev	.0069756	.005053	.0044156	.0039698	.0077701	.47130	.0031197
%RSD	7.689068	8.721330	1.280963	4.289066	29.70857	.5808318	.4142564
#1	.0844548	-.053688	.3457647	.0904358	.0273691	80.65738	.7508648
#2	.0982370	-.056594	.3398628	.0900955	.0178486	81.16975	.7566460
#3	.0894709	-.063523	.3485031	.0971352	.0332458	81.59874	.7517232

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0154832	.0058635	734.8743	.4855335	.0516386	.1592939	226.3509
Stddev	.0002050	.0000931	3.7234	.0016088	.0006745	.0129533	.9852
%RSD	1.323920	1.587877	.5066669	.3313380	1.306245	8.131691	.4352452
#1	.0152971	.0058678	730.9216	.4867149	.0522015	.1452268	225.2636
#2	.0154495	.0057683	735.3860	.4861843	.0518235	.1619259	226.6050
#3	.0157029	.0059544	738.3154	.4837013	.0508909	.1707291	227.1842

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.96954	184.4698	.2429159	-.007016	1.326414	.3009380	.8220213
Stddev	.04149	.8730	.0017085	.001191	.028187	.0103696	.0046956
%RSD	.3782364	.4732230	.7033278	16.97380	2.125078	3.445748	.5712259
#1	10.92165	183.5884	.2435649	-.005758	1.354645	.2944902	.8245264
#2	10.99223	184.4868	.2409781	-.008126	1.298271	.2954242	.8249331
#3	10.99473	185.3341	.2442049	-.007164	1.326326	.3128996	.8166043

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.004536	5.230638	.1500797	.0373467	7.793102	10.27644	.0418506
Stddev	.081918	.022903	.0024757	.0001663	.012916	.03405	.0010775
%RSD	1.023400	.4378711	1.649597	.4453619	.1657338	.3313597	2.574663
#1	7.959430	5.216357	.1480544	.0375048	7.779125	10.29559	.0407079
#2	8.099094	5.218501	.1493452	.0371732	7.795587	10.23713	.0428482
#3	7.955083	5.257055	.1528396	.0373622	7.804595	10.29661	.0419959

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-05 Acquired: 12/29/2024 15:49:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.753397	2.761619	.1109831
Stddev	.008859	.014633	.0070253
%RSD	.5052265	.5298700	6.330051
#1	1.744230	2.744841	.1053065
#2	1.754050	2.768276	.1188400
#3	1.761911	2.771740	.1088028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2165.195	27841.88	2174.290	1398.805	1619.035
Stddev	3.829	60.31	11.075	2.743	3.315
%RSD	.1768295	.2165992	.5093499	.1960619	.2047555
#1	2167.388	27826.15	2173.384	1398.300	1622.347
#2	2160.774	27908.50	2185.790	1396.349	1615.717
#3	2167.423	27791.01	2163.697	1401.764	1619.042

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-06 Acquired: 12/29/2024 15:53:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0905375	-.052626	.1003592	.0755028	.0182513	84.07246	.7198279
Stddev	.0033610	.006154	.0020602	.0065437	.0055742	.26813	.0020540
%RSD	3.712260	11.69398	2.052870	8.666835	30.54142	.3189294	.2853508
#1	.0878802	-.048042	.0998307	.0697732	.0223086	83.87778	.7186179
#2	.0894166	-.050215	.1026322	.0826336	.0118954	83.96130	.7186663
#3	.0943157	-.059620	.0986147	.0741016	.0205498	84.37829	.7221996

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0141268	.0050270	609.0391	.1571326	.0805088	.1311824	201.9548
Stddev	.0001520	.0000667	2.9594	.0008401	.0006825	.0081541	.9659
%RSD	1.075828	1.327753	.4859068	.5346710	.8477000	6.215846	.4782901
#1	.0141896	.0049895	607.0022	.1568184	.0812176	.1250745	200.9114
#2	.0142373	.0051040	607.6814	.1564948	.0804526	.1404419	202.1352
#3	.0139535	.0049873	612.4337	.1580845	.0798561	.1280308	202.8178

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.200341	192.5989	.3288065	-.007001	1.400465	.2729048	.4545635
Stddev	.006376	1.2668	.0007985	.000799	.017865	.0107201	.0024874
%RSD	.1992330	.6577580	.2428361	11.40727	1.275652	3.928153	.5472015
#1	3.196235	191.1361	.3288681	-.006850	1.420944	.2706394	.4531767
#2	3.197101	193.3209	.3279791	-.007864	1.392372	.2634984	.4574351
#3	3.207686	193.3396	.3295724	-.006288	1.388079	.2845765	.4530787

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.49007	3.442708	.1719322	.0576632	28.75104	9.205311	.0326919
Stddev	.02849	.010628	.0008980	.0008488	.08197	.059785	.0010605
%RSD	.1966256	.3087176	.5222986	1.472066	.2851036	.6494625	3.243936
#1	14.47935	3.447914	.1729127	.0573465	28.69242	9.204221	.0314737
#2	14.46848	3.430481	.1717342	.0586249	28.71600	9.146078	.0331925
#3	14.52236	3.449731	.1711498	.0570183	28.84471	9.265633	.0334093

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-06 Acquired: 12/29/2024 15:53:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.535200	1.653821	.1937680
Stddev	.009469	.012787	.0011044
%RSD	.6167920	.7731902	.5699723
#1	1.545949	1.647101	.1926041
#2	1.528090	1.645794	.1938987
#3	1.531562	1.668567	.1948013

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2146.252	27375.59	2146.792	1372.053	1636.135
Stddev	7.178	117.47	8.609	9.608	5.860
%RSD	.3344591	.4290934	.4010225	.7002993	.3581796
#1	2142.449	27454.97	2156.046	1376.046	1632.480
#2	2154.532	27240.65	2145.312	1361.092	1642.895
#3	2141.775	27431.15	2139.019	1379.021	1633.031

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-07 Acquired: 12/29/2024 15:57:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1212255	-.120771	.7967258	.1649735	.0662705	60.80136	.9590038
Stddev	.0008250	.005505	.0014217	.0014544	.0032276	.30227	.0056522
%RSD	.6805855	4.558304	.1784418	.8815660	4.870338	.4971400	.5893830
#1	.1213784	-.115042	.7982998	.1654241	.0626283	60.46143	.9525576
#2	.1203347	-.126022	.7955349	.1661492	.0687760	60.90275	.9631115
#3	.1219633	-.121248	.7963428	.1633472	.0674072	61.03990	.9613422

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192560	.0168863	604.8352	.4535815	-.013742	.6605374	343.4090
Stddev	.0002227	.0001724	1.3376	.0012902	.001621	.0054366	1.8056
%RSD	1.156320	1.020885	.2211463	.2844365	11.79248	.8230638	.5257978
#1	.0195087	.0167311	603.3254	.4540862	-.012041	.6553144	341.6006
#2	.0190888	.0170719	605.3082	.4521153	-.015268	.6601327	345.2118
#3	.0191704	.0168559	605.8721	.4545429	-.013916	.6661651	343.4146

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.456129	73.05256	.5451028	-.008538	2.756608	.2263695	3.243893
Stddev	.028280	.40561	.0008909	.000743	.015053	.0097732	.007377
%RSD	.5183091	.5552316	.1634429	8.704499	.5460644	4.317363	.2274137
#1	5.423516	72.62919	.5441640	-.008940	2.740716	.2295483	3.240501
#2	5.471005	73.09080	.5452080	-.008994	2.770651	.2154026	3.238821
#3	5.473865	73.43770	.5459365	-.007681	2.758457	.2341575	3.252355

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.10887	8.796115	.3575308	.0893618	20.45666	9.128190	.0815584
Stddev	.14081	.007648	.0024014	.0005489	.02422	.084768	.0022471
%RSD	1.267575	.0869494	.6716553	.6142825	.1183880	.9286434	2.755177
#1	11.21864	8.788593	.3586212	.0894146	20.44456	9.225226	.0800638
#2	10.95011	8.795869	.3591935	.0887884	20.44089	9.068552	.0804687
#3	11.15787	8.803884	.3547777	.0898825	20.48455	9.090791	.0841425

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-07 Acquired: 12/29/2024 15:57:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28R2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.114830	1.904694	.0968914
Stddev	.017045	.008255	.0049318
%RSD	1.528895	.4334092	5.090078
#1	1.095205	1.903491	.0913280
#2	1.125930	1.897107	.1007266
#3	1.123355	1.913485	.0986195

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2128.572	27300.33	2156.817	1372.069	1714.663
Stddev	2.149	8.72	16.195	1.307	1.116
%RSD	.1009406	.0319442	.7508825	.0952650	.0651009
#1	2126.115	27309.66	2139.201	1372.601	1715.791
#2	2130.100	27292.39	2171.060	1373.025	1714.638
#3	2129.501	27298.94	2160.190	1370.579	1713.559

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-08 Acquired: 12/29/2024 16:00:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0928994	-.091478	.4287764	.1602487	.0429508	83.98955
Stddev	.0027847	.005076	.0008880	.0059867	.0031221	.63408
%RSD	2.997531	5.548766	.2070981	3.735894	7.268930	.7549514
#1	.0899378	-.085620	.4284708	.1668981	.0443956	83.27467
#2	.0932957	-.094571	.4280815	.1585610	.0450888	84.20998
#3	.0954648	-.094243	.4297768	.1552870	.0393680	84.48400

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8855488	.0193838	.0072758	F 813.9699	1.121927	.0162052
Stddev	.0058909	.0002052	.0002220	4.5846	.023971	.0014371
%RSD	.6652314	1.058605	3.051461	.5632450	2.136547	8.868378
#1	.8787860	.0191857	.0073783	808.6788	1.126902	.0176505
#2	.8895637	.0193702	.0074280	816.4651	1.095860	.0147763
#3	.8882967	.0195954	.0070210	816.7657	1.143021	.0161887

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1725837	328.4615	20.65893	247.3017	.4960039	-.007773
Stddev	.0070859	2.1972	.15254	2.1094	.0006072	.001317
%RSD	4.105746	.6689257	.7383790	.8529636	.1224115	16.94793
#1	.1665715	326.0220	20.48464	244.9838	.4965282	-.007245
#2	.1707836	329.0775	20.76807	247.8125	.4961448	-.006802
#3	.1803960	330.2848	20.72409	249.1088	.4953386	-.009273

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.641636	.4032579	1.424002	12.03345	5.436995	.2509270
Stddev	.012765	.0057043	.035918	.15209	.005253	.0045638
%RSD	.7775783	1.414563	2.522303	1.263904	.0966220	1.818768
#1	1.650806	.3968785	1.430776	11.86764	5.431587	.2464282
#2	1.627057	.4078678	1.385179	12.06622	5.442079	.2507998
#3	1.647044	.4050274	1.456050	12.16649	5.437318	.2555531

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-08 Acquired: 12/29/2024 16:00:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0367033	8.409815	10.06602	.0605474	2.126109	1.397344
Stddev	.0009009	.023733	.04379	.0006620	.014665	.005019
%RSD	2.454423	.2822001	.4350217	1.093315	.6897397	.3592082
#1	.0359515	8.435245	10.02204	.0612828	2.109994	1.391849
#2	.0364567	8.405944	10.10962	.0599991	2.129665	1.398492
#3	.0377018	8.388256	10.06640	.0603604	2.138670	1.401689

Elem	Li6707
Units	ppm
Avg	.1304530
Stddev	.0052925
%RSD	4.056990
#1	.1250473
#2	.1306872
#3	.1356244

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2119.761	27326.12	2152.557	1363.691	1610.464
Stddev	5.248	555.28	11.822	25.853	4.279
%RSD	.2475740	2.032065	.5492201	1.895825	.2657096
#1	2113.790	27202.80	2162.369	1354.591	1605.531
#2	2123.643	27932.69	2139.431	1392.864	1613.183
#3	2121.849	26842.86	2155.870	1343.619	1612.677

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-09 Acquired: 12/29/2024 16:04:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0872467	-.121487	.6753172	.2096196	.0697805	85.52539
Stddev	.0098567	.001670	.0024582	.0058343	.0032805	.29030
%RSD	11.29750	1.375032	.3640014	2.783259	4.701182	.3394358
#1	.0939701	-.121472	.6778549	.2103086	.0660368	85.23495
#2	.0759319	-.119825	.6751497	.2150788	.0721529	85.52565
#3	.0918380	-.123166	.6729471	.2034715	.0711517	85.81556

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8337826	.0212383	.0087139	695.7467	1.907807	-.025439
Stddev	.0014589	.0001704	.0000956	2.5416	.005255	.001400
%RSD	.1749767	.8021889	1.097222	.3653028	.2754620	5.501507
#1	.8325620	.0212921	.0088086	692.8239	1.904248	-.023880
#2	.8333874	.0210476	.0086174	697.4374	1.913843	-.026586
#3	.8353984	.0213753	.0087157	696.9788	1.905330	-.025852

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1567225	402.9002	F 37.90778	187.5418	.3339712	-.008636
Stddev	.0028199	1.7848	.13642	.9307	.0012016	.001650
%RSD	1.799318	.4429988	.3598774	.4962812	.3597820	19.10956
#1	.1571362	401.0841	37.76684	186.4760	.3351336	-.009092
#2	.1593128	402.9643	37.91732	187.9546	.3327340	-.010011
#3	.1537186	404.6521	38.03918	188.1947	.3340461	-.006806

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.302057	.6749029	2.378916	9.305069	6.418242	.2415350
Stddev	.017120	.0109189	.005561	.118820	.007173	.0041085
%RSD	1.314869	1.617848	.2337690	1.276939	.1117649	1.700989
#1	1.304277	.6765535	2.373252	9.168588	6.409959	.2368437
#2	1.283935	.6849026	2.384369	9.385469	6.422456	.2432695
#3	1.317959	.6632527	2.379126	9.361150	6.422311	.2444918

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-09 Acquired: 12/29/2024 16:04:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240893	10.74174	9.891989	.0479743	2.153669	.8951375
Stddev	.0003891	.02274	.019380	.0016844	.010452	.0039793
%RSD	1.615390	.2116848	.1959207	3.511103	.4853121	.4445430
#1	.0242719	10.72499	9.909429	.0461062	2.157692	.8905648
#2	.0243536	10.76762	9.871125	.0484392	2.141803	.8978141
#3	.0236425	10.73259	9.895414	.0493774	2.161512	.8970337

Elem	Li6707
Units	ppm
Avg	.1209012
Stddev	.0039371
%RSD	3.256456
#1	.1204549
#2	.1250425
#3	.1172063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2164.110	27547.89	2152.648	1381.674	1713.852
Stddev	5.060	166.92	13.398	9.403	5.444
%RSD	.2338221	.6059340	.6224070	.6805535	.3176683
#1	2161.278	27561.77	2140.066	1383.515	1709.229
#2	2169.952	27374.46	2151.142	1371.486	1719.853
#3	2161.099	27707.43	2166.736	1390.020	1712.474

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-10 Acquired: 12/29/2024 16:08:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1233438	-.283657	.7877129	.3964912	.1374167	67.26736
Stddev	.0021283	.008039	.0008886	.0022962	.0032596	.44663
%RSD	1.725503	2.834166	.1128037	.5791254	2.372077	.6639573
#1	.1228420	-.275442	.7875240	.3979362	.1348892	66.75164
#2	.1256782	-.284021	.7869339	.3938435	.1362651	67.52759
#3	.1215113	-.291508	.7886807	.3976940	.1410958	67.52284

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.109296	.0364090	.0134070	F 1192.291	1.519349	-.151929
Stddev	.004096	.0003584	.0002112	8.639	.002707	.002196
%RSD	.3692214	.9843997	1.575606	.7245793	.1781671	1.445578
#1	1.105381	.0360120	.0136358	1183.075	1.520162	-.149414
#2	1.108956	.0365060	.0132194	1193.592	1.516328	-.153467
#3	1.113551	.0367089	.0133658	1200.206	1.521556	-.152907

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2166293	725.1644	F 34.19231	456.2285	.4687033	-.019766
Stddev	.0065303	5.0896	.27247	3.2847	.0012711	.001040
%RSD	3.014489	.7018486	.7968626	.7199638	.2711954	5.263749
#1	.2184007	719.3750	33.88362	452.4990	.4678285	-.018604
#2	.2093961	727.1835	34.29400	457.4954	.4681200	-.020610
#3	.2220912	728.9345	34.39930	458.6910	.4701613	-.020085

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.131835	.6390615	3.550691	5.585390	5.684797	.3744746
Stddev	.043056	.0098643	.011846	.146237	.007576	.0054847
%RSD	2.019649	1.543555	.3336379	2.618214	.1332697	1.464627
#1	2.082396	.6300852	3.562285	5.416722	5.680927	.3699831
#2	2.161097	.6496220	3.551180	5.676700	5.679937	.3728536
#3	2.152011	.6374773	3.538607	5.662748	5.693526	.3805870

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-10 Acquired: 12/29/2024 16:08:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0270267	11.53060	3.849041	.0862866	1.922720	3.143480
Stddev	.0007108	.02051	.019593	.0017595	.014398	.023631
%RSD	2.629984	.1778546	.5090452	2.039083	.7488543	.7517319
#1	.0272153	11.54072	3.834920	.0850398	1.908218	3.118891
#2	.0262406	11.54408	3.871410	.0882992	1.922931	3.145530
#3	.0276241	11.50700	3.840794	.0855209	1.937012	3.166019

Elem	Li6707
Units	ppm
Avg	.0891354
Stddev	.0007678
%RSD	.8613383
#1	.0890150
#2	.0899562
#3	.0884349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2025.411	26039.07	2067.708	1294.442	1623.123
Stddev	2.504	133.96	10.201	6.286	1.434
%RSD	.1236079	.5144577	.4933458	.4856117	.0883662
#1	2027.600	25922.90	2078.025	1287.480	1624.521
#2	2025.953	26185.61	2057.627	1299.701	1623.193
#3	2022.681	26008.71	2067.471	1296.145	1621.655

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-11 Acquired: 12/29/2024 16:12:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0710352	-.046841	.2250312	.0724108	.0096495	70.22611
Stddev	.0044968	.000233	.0058269	.0016986	.0042036	.15718
%RSD	6.330441	.4983876	2.589360	2.345765	43.56301	.2238176
#1	.0726951	-.046844	.2256925	.0730657	.0123648	70.09058
#2	.0744662	-.047073	.2189019	.0736846	.0117762	70.39842
#3	.0659444	-.046606	.2304992	.0704823	.0048075	70.18935

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5444314	.0127837	.0081541	F 850.0086	.2852432	.0607430
Stddev	.0020308	.0000656	.0001891	1.5820	.0017623	.0006769
%RSD	.3730172	.5129555	2.319293	.1861179	.6178193	1.114350
#1	.5425585	.0127543	.0082427	848.5107	.2864922	.0600467
#2	.5465899	.0128588	.0079370	851.6631	.2832274	.0607837
#3	.5441459	.0127379	.0082828	849.8522	.2860100	.0613986

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1197639	195.1834	6.921009	298.2722	.2483366	-.006056
Stddev	.0054630	.4385	.019902	.5840	.0011242	.001399
%RSD	4.561442	.2246393	.2875572	.1957808	.4526857	23.10610
#1	.1255010	194.8095	6.902732	297.6236	.2495718	-.006081
#2	.1191663	195.6660	6.942212	298.7562	.2480649	-.004645
#3	.1146242	195.0747	6.918083	298.4368	.2473732	-.007443

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.361736	.2285055	.7865815	7.898401	4.535061	.1354716
Stddev	.033063	.0022634	.0071289	.094636	.007295	.0022327
%RSD	2.427992	.9905350	.9063189	1.198166	.1608583	1.648106
#1	1.369915	.2278520	.7897650	7.791001	4.526684	.1362837
#2	1.389941	.2266406	.7915639	7.934640	4.538483	.1371846
#3	1.325351	.2310237	.7784155	7.969561	4.540016	.1329465

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-11 Acquired: 12/29/2024 16:12:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0251028	19.26848	9.239526	.0251781	.6981220	1.225152
Stddev	.0003279	.01322	.084303	.0022719	.0034182	.001347
%RSD	1.306182	.0685893	.9124162	9.023467	.4896346	.1099417
#1	.0248007	19.26167	9.309968	.0277970	.6971065	1.223746
#2	.0254515	19.26006	9.262490	.0237365	.6953265	1.225278
#3	.0250561	19.28371	9.146120	.0240007	.7019329	1.226431

Elem	Li6707
Units	ppm
Avg	.1188568
Stddev	.0040034
%RSD	3.368285
#1	.1229213
#2	.1149174
#3	.1187316

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2161.759	27550.60	2206.860	1383.341	1667.336
Stddev	3.123	40.96	15.044	6.420	3.705
%RSD	.1444865	.1486843	.6817044	.4641192	.2222110
#1	2162.978	27570.08	2192.523	1381.126	1668.484
#2	2164.089	27578.20	2205.533	1378.321	1670.331
#3	2158.210	27503.54	2222.523	1390.575	1663.193

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-12 Acquired: 12/29/2024 16:16:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0821794	-.072342	.2730555	.1374442	.0386800	69.78276
Stddev	.0046171	.004452	.0003371	.0060194	.0016863	.37568
%RSD	5.618263	6.154402	.1234480	4.379538	4.359635	.5383531
#1	.0798761	-.069620	.2731478	.1340552	.0367606	69.39164
#2	.0874950	-.069926	.2726819	.1338834	.0393561	69.81583
#3	.0791672	-.077480	.2733368	.1443942	.0399234	70.14081

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7740375	.0156869	.0053307	F 912.0304	1.462965	.0120932
Stddev	.0052840	.0001035	.0001089	4.4839	.000504	.0012100
%RSD	.6826596	.6595131	2.041937	.4916423	.0344221	10.00536
#1	.7695500	.0156743	.0052940	909.9165	1.463146	.0131835
#2	.7727011	.0157961	.0054532	908.9943	1.462395	.0123046
#3	.7798614	.0155903	.0052450	917.1806	1.463352	.0107914

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1693364	302.8970	F 32.93189	332.2505	.4609489	-.005168
Stddev	.0033648	1.8441	.17396	2.0221	.0011510	.001029
%RSD	1.987072	.6088151	.5282315	.6086153	.2497035	19.91049
#1	.1671332	301.1207	32.76293	330.4795	.4616857	-.005890
#2	.1732096	302.7683	32.92228	331.8182	.4596225	-.005624
#3	.1676665	304.8021	33.11045	334.4538	.4615384	-.003990

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.299028	.5249273	.9072409	5.889143	5.302670	.1787204
Stddev	.010539	.0050543	.0049399	.191993	.012001	.0038737
%RSD	.8112931	.9628634	.5445006	3.260119	.2263260	2.167475
#1	1.292673	.5277158	.9088649	5.709889	5.291963	.1748420
#2	1.293218	.5190929	.9111644	5.865798	5.300406	.1825894
#3	1.311193	.5279731	.9016934	6.091741	5.315643	.1787297

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-12 Acquired: 12/29/2024 16:16:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0285684	10.34207	10.57391	.0385440	1.834368	1.248947
Stddev	.0008846	.03681	.05426	.0019921	.012298	.005368
%RSD	3.096521	.3558823	.5131209	5.168509	.6704028	.4298386
#1	.0285304	10.38442	10.60401	.0408442	1.826339	1.248098
#2	.0294714	10.31781	10.51128	.0374169	1.828239	1.244054
#3	.0277034	10.32398	10.60645	.0373709	1.848525	1.254689

Elem	Li6707
Units	ppm
Avg	.0938924
Stddev	.0029223
%RSD	3.112346
#1	.0955881
#2	.0955710
#3	.0905181

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2068.711	26545.80	2096.493	1329.588	1622.040
Stddev	2.647	166.43	6.013	10.162	3.323
%RSD	.1279317	.6269507	.2868099	.7643101	.2048363
#1	2071.767	26662.89	2101.637	1334.849	1625.680
#2	2067.166	26355.29	2089.882	1317.873	1621.270
#3	2067.202	26619.23	2097.959	1336.040	1619.170

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-13 Acquired: 12/29/2024 16:19:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1698989	-.316460	3.768185	.4728460	.1665677	106.2923
Stddev	.0097054	.004738	.006203	.0039236	.0051111	.3457
%RSD	5.712468	1.497262	.1646205	.8297781	3.068496	.3252586
#1	.1737913	-.311023	3.775330	.4710703	.1607949	105.9003
#2	.1588515	-.318643	3.764174	.4773435	.1705173	106.5539
#3	.1770540	-.319712	3.765051	.4701242	.1683908	106.4225

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.438905	.0419877	.0288317	F 819.4573	2.720998	-.166615
Stddev	.005600	.0004697	.0001151	2.8119	.006806	.001822
%RSD	.3892167	1.118702	.3991187	.3431409	.2501202	1.093495
#1	1.434725	.0415933	.0289138	816.5140	2.716665	-.164911
#2	1.445269	.0425074	.0287002	822.1161	2.728842	-.168535
#3	1.436723	.0418624	.0288812	819.7418	2.717486	-.166398

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5206783	F 831.2306	F 57.21027	161.5501	1.041686	-.008839
Stddev	.0022344	3.6421	.27695	.9946	.001321	.000972
%RSD	.4291408	.4381630	.4840921	.6156611	.1267914	11.00086
#1	.5231568	827.3624	56.90527	160.4548	1.042398	-.008422
#2	.5200599	834.5940	57.44604	162.3968	1.040162	-.008145
#3	.5188181	831.7354	57.27948	161.7988	1.042498	-.009950

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.735369	.9381872	8.275796	12.48497	9.601501	.5602573
Stddev	.028158	.0125884	.025525	.16346	.020456	.0082074
%RSD	1.029387	1.341776	.3084338	1.309237	.2130508	1.464928
#1	2.751321	.9281611	8.288814	12.44829	9.621128	.5541266
#2	2.751928	.9523148	8.246386	12.34297	9.580306	.5570641
#3	2.702857	.9340857	8.292187	12.66365	9.603070	.5695814

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-13 Acquired: 12/29/2024 16:19:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0607256	12.00383	11.35553	.1029707	3.731582	1.149618
Stddev	.0003588	.02450	.12414	.0030447	.028965	.002181
%RSD	.5909282	.2041118	1.093238	2.956835	.7762152	.1896817
#1	.0603252	12.00559	11.34781	.0995412	3.698274	1.147824
#2	.0608336	11.97850	11.48335	.1040153	3.745599	1.152045
#3	.0610181	12.02741	11.23542	.1053556	3.750872	1.148985

Elem	Li6707
Units	ppm
Avg	.1366422
Stddev	.0022633
%RSD	1.656373
#1	.1351813
#2	.1354959
#3	.1392493

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2136.279	27499.36	2192.671	1360.534	1701.157
Stddev	5.412	22.95	16.187	4.728	1.921
%RSD	.2533281	.0834395	.7382292	.3475070	.1129170
#1	2134.848	27501.81	2192.241	1356.235	1701.150
#2	2131.726	27520.99	2176.704	1365.598	1699.239
#3	2142.262	27475.29	2209.069	1359.768	1703.081

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-14 Acquired: 12/29/2024 16:23:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2105650	-.542454	3.688998	.7892641	.2860411	83.31458
Stddev	.0028743	.005874	.002139	.0134992	.0060915	.70313
%RSD	1.365042	1.082805	.0579841	1.710353	2.129576	.8439446
#1	.2074654	-.536713	3.688545	.7797279	.2793234	82.51257
#2	.2131424	-.548452	3.691326	.8047104	.2875942	83.82502
#3	.2110873	-.542198	3.687121	.7833541	.2912057	83.60615

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.262614	.0635723	.0331841	783.4707	3.957529	-.409001
Stddev	.008445	.0005410	.0000265	6.0907	.009404	.004815
%RSD	.6688146	.8510485	.0797895	.7773987	.2376332	1.177256
#1	1.253217	.0629560	.0332115	776.5708	3.964934	-.403549
#2	1.269568	.0639689	.0331823	788.0995	3.946948	-.412670
#3	1.265057	.0637920	.0331586	785.7419	3.960706	-.410784

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3291084	F 1348.409	F 88.05868	140.8640	.9270732	-.025127
Stddev	.0054439	12.821	.82070	1.5423	.0014256	.001458
%RSD	1.654134	.9507919	.9319941	1.094880	.1537763	5.802129
#1	.3247047	1333.978	87.13631	139.1479	.9287193	-.026512
#2	.3274256	1358.482	88.70822	142.1342	.9262613	-.025263
#3	.3351950	1352.769	88.33150	141.3098	.9262391	-.023605

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.293860	1.191217	12.90347	7.977485	9.178486	.7751744
Stddev	.047021	.008599	.02082	.266405	.011388	.0018799
%RSD	1.427538	.7218964	.1613332	3.339457	.1240680	.2425089
#1	3.250128	1.189178	12.87985	7.670891	9.185995	.7763938
#2	3.343594	1.183820	12.91143	8.109066	9.184080	.7730095
#3	3.287859	1.200652	12.91914	8.152498	9.165384	.7761199

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-14 Acquired: 12/29/2024 16:23:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0617913	8.682588	11.62219	.2061775	6.016531	.4407533
Stddev	.0003779	.004492	.16317	.0018480	.051122	.0015711
%RSD	.6115808	.0517313	1.403986	.8963026	.8497003	.3564600
#1	.0618447	8.687773	11.46050	.2059807	5.957559	.4418127
#2	.0621396	8.680105	11.78681	.2081159	6.048311	.4389482
#3	.0613895	8.679887	11.61925	.2044357	6.043722	.4414991

Elem	Li6707
Units	ppm
Avg	.0628529
Stddev	.0025058
%RSD	3.986779
#1	.0600084
#2	.0638159
#3	.0647343

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2000.605	25868.94	2031.648	1275.786	1721.480
Stddev	11.455	165.71	20.736	6.976	6.865
%RSD	.5725994	.6405663	1.020634	.5468395	.3987970
#1	1988.154	25694.23	2050.779	1267.836	1714.115
#2	2010.698	26023.87	2009.614	1280.888	1727.702
#3	2002.964	25888.71	2034.552	1278.633	1722.621

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-15 Acquired: 12/29/2024 16:27:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1714936	-.357062	2.895117	.5205464	.1864668	107.0085
Stddev	.0025949	.006027	.006826	.0113089	.0045017	.2269
%RSD	1.513115	1.687854	.2357915	2.172512	2.414213	.2120244
#1	.1708889	-.362295	2.902726	.5166140	.1867624	106.7478
#2	.1743375	-.350473	2.889530	.5332966	.1818247	107.1616
#3	.1692545	-.358419	2.893096	.5117286	.1908135	107.1159

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.023643	.0464311	.0245096	666.8682	3.531904	-.227032
Stddev	.002446	.0003526	.0000931	1.2687	.010064	.000472
%RSD	.2389840	.7593277	.3799164	.1902419	.2849528	.2080648
#1	1.020905	.0461988	.0245438	667.0816	3.543523	-.227412
#2	1.025614	.0462577	.0244042	665.5064	3.526274	-.227182
#3	1.024410	.0468368	.0245807	668.0167	3.525915	-.226503

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3167008	F 906.7910	F 52.64921	121.0856	.8311132	-.014273
Stddev	.0109635	1.4694	.08402	.1651	.0033746	.001006
%RSD	3.461791	.1620426	.1595790	.1363532	.4060368	7.045574
#1	.3209963	905.7018	52.56414	120.8967	.8298997	-.015072
#2	.3248662	906.2090	52.65136	121.2023	.8285132	-.013144
#3	.3042400	908.4622	52.73213	121.1578	.8349268	-.014603

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.240929	.8140259	9.064176	13.05238	6.977790	.5710232
Stddev	.020366	.0078145	.055772	.13572	.025169	.0039390
%RSD	.6284052	.9599789	.6153016	1.039847	.3607028	.6898220
#1	3.264238	.8052069	9.069175	12.94578	6.988782	.5670843
#2	3.226571	.8200891	9.006073	13.00620	6.948995	.5749623
#3	3.231979	.8167818	9.117280	13.20517	6.995594	.5710230

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-15 Acquired: 12/29/2024 16:27:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0630377	7.258091	9.603550	.1439812	4.315936	.7567360
Stddev	.0006134	.024358	.069125	.0034186	.013456	.0050135
%RSD	.9731122	.3356035	.7197857	2.374313	.3117758	.6625108
#1	.0636236	7.270767	9.609675	.1400390	4.302658	.7583831
#2	.0624000	7.230009	9.531566	.1457764	4.315585	.7511062
#3	.0630895	7.273497	9.669409	.1461282	4.329564	.7607187

Elem	Li6707
Units	ppm
Avg	.1224794
Stddev	.0069170
%RSD	5.647488
#1	.1145632
#2	.1273567
#3	.1255183

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2098.883	27051.85	2141.284	1340.524	1719.834
Stddev	4.105	161.20	21.191	10.319	1.649
%RSD	.1955955	.5958951	.9896276	.7697499	.0958978
#1	2099.849	26878.85	2130.145	1333.458	1717.931
#2	2094.381	27197.84	2165.722	1352.366	1720.847
#3	2102.419	27078.86	2127.987	1335.749	1720.724

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-16 Acquired: 12/29/2024 16:31:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1548122	-.299471	3.594244	.4314796	.1576839	106.4137
Stddev	.0062860	.005042	.005911	.0108066	.0023795	.2544
%RSD	4.060374	1.683542	.1644586	2.504549	1.509061	.2390636
#1	.1475542	-.300432	3.595264	.4268467	.1551647	106.1790
#2	.1585091	-.294018	3.587889	.4237619	.1598934	106.3780
#3	.1583732	-.303964	3.599579	.4438303	.1579935	106.6840

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.218681	.0470075	.0241351	737.3563	2.691355	-.172584
Stddev	.001598	.0000796	.0002777	2.1050	.005245	.001690
%RSD	.1311245	.1694194	1.150449	.2854855	.1948943	.9791761
#1	1.220177	.0470392	.0238156	735.1032	2.685556	-.172738
#2	1.216997	.0469169	.0243182	737.6930	2.692740	-.170822
#3	1.218867	.0470664	.0242715	739.2727	2.695769	-.174192

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3264726	782.7414	F 38.63187	167.5911	1.057934	-.013071
Stddev	.0057460	3.5920	.15596	.6676	.001421	.001253
%RSD	1.760017	.4589043	.4037206	.3983218	.1343132	9.587320
#1	.3218516	780.9824	38.53699	167.0119	1.056645	-.012262
#2	.3246600	780.3678	38.54675	167.4403	1.059457	-.012437
#3	.3329064	786.8739	38.81188	168.3212	1.057699	-.014515

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.192530	.5746208	7.772294	11.65793	6.175780	.6147846
Stddev	.022341	.0061767	.021246	.11969	.005062	.0088415
%RSD	.6997751	1.074922	.2733528	1.026708	.0819649	1.438149
#1	3.183893	.5817522	7.794735	11.77310	6.177364	.6101093
#2	3.175797	.5709592	7.769657	11.53417	6.179860	.6092622
#3	3.217900	.5711509	7.752489	11.66651	6.170115	.6249822

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-16 Acquired: 12/29/2024 16:31:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0878420	9.513447	6.806024	.1328586	2.665227	.9053097
Stddev	.0004515	.015666	.015981	.0009676	.008784	.0057781
%RSD	.5140202	.1646741	.2348054	.7282832	.3295629	.6382456
#1	.0874810	9.517769	6.821577	.1317430	2.658842	.8998666
#2	.0883483	9.496074	6.806848	.1334692	2.661594	.9113728
#3	.0876967	9.526499	6.789647	.1333636	2.675244	.9046896

Elem	Li6707
Units	ppm
Avg	.1305721
Stddev	.0018206
%RSD	1.394316
#1	.1326676
#2	.1293786
#3	.1296702

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2183.067	28067.68	2207.526	1388.338	1679.005
Stddev	6.926	55.79	7.141	4.149	7.051
%RSD	.3172732	.1987867	.3234786	.2988517	.4199444
#1	2190.908	28117.35	2199.923	1385.619	1686.688
#2	2180.510	28007.31	2208.564	1386.282	1677.498
#3	2177.782	28078.38	2214.091	1393.114	1672.830

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV043 Acquired: 12/29/2024 16:34:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV043 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.040751	4.778462	24.57775	5.116052	5.043271	410.4654	10.28852
Stddev	.025686	.006335	.04074	.013762	.028391	1.5429	.03921
%RSD	.5095694	.1325696	.1657398	.2690033	.5629470	.3758834	.3811387
#1	5.013656	4.780849	24.53707	5.115821	5.061756	409.1453	10.25137
#2	5.064748	4.783256	24.57763	5.102407	5.010581	412.1615	10.32952
#3	5.043848	4.771281	24.61854	5.129929	5.057475	410.0893	10.28466

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5081406	2.485340	405.3793	15.34583	2.404856	14.81647	404.9870
Stddev	.0037642	.003203	1.4567	.01476	.001324	.04294	1.8329
%RSD	.7407722	.1288716	.3593341	.0961704	.0550623	.2897883	.4525883
#1	.5117425	2.482527	404.2199	15.33072	2.403328	14.79805	404.1913
#2	.5084464	2.484667	407.0143	15.36021	2.405560	14.86555	407.0833
#3	.5042328	2.488826	404.9037	15.34656	2.405679	14.78583	403.6864

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.62255	398.9632	2.505031	1.264587	416.5131	2.480746	15.19669
Stddev	.06724	1.1198	.004871	.002590	4.0614	.007412	.04172
%RSD	.4598701	.2806720	.1944452	.2047720	.9751064	.2987857	.2745602
#1	14.55384	397.8932	2.499432	1.263455	420.8685	2.486280	15.19356
#2	14.68823	400.1269	2.507371	1.262755	415.8417	2.483632	15.23989
#3	14.62559	398.8694	2.508291	1.267549	412.8292	2.472325	15.15662

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	150.5079	4.983527	4.976643	5.005320	5.097884	4.806856	4.977243
Stddev	.6627	.008057	.036423	.013635	.010550	.048642	.009583
%RSD	.4403062	.1616820	.7318748	.2724163	.2069449	1.011927	.1925341
#1	150.0989	4.987708	5.006470	5.005838	5.093996	4.849325	4.966315
#2	151.2725	4.974238	4.987410	4.991434	5.109826	4.817454	4.981205
#3	150.1523	4.988634	4.936051	5.018690	5.089831	4.753789	4.984210

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV043 Acquired: 12/29/2024 16:34:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV043 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.015399	4.691415	5.129890
Stddev	.025581	.021229	.023754
%RSD	.5100566	.4524981	.4630433
#1	4.992657	4.676516	5.103440
#2	5.043095	4.715721	5.149403
#3	5.010445	4.682006	5.136826

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1801.179	23482.87	1914.657	1130.201	1534.204
Stddev	5.790	82.05	20.115	5.228	1.567
%RSD	.3214503	.3494239	1.050574	.4625698	.1021435
#1	1799.497	23510.74	1900.318	1129.119	1533.551
#2	1807.624	23390.51	1906.002	1125.598	1535.992
#3	1796.417	23547.37	1937.651	1135.885	1533.069

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB043 Acquired: 12/29/2024 16:38:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB043 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006994	-.000799	.0001900	-.002569	-.002507	-.000018	-.001008
Stddev	.002818	.001813	.0000952	.004675	.003739	.036792	.000501
%RSD	40.29777	226.8982	50.08170	181.9686	149.1682	206910.3	49.72365
#1	-.009764	.001293	.0000952	-.006947	.001716	.031527	-.001506
#2	-.007087	-.001906	.0002855	-.003116	-.003839	-.040435	-.000503
#3	-.004130	-.001783	.0001894	.002355	-.005396	.008854	-.001015

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000099	.0000946	-.020152	.0005146	.0001979	-.000757	.0080228
Stddev	.000191	.0000744	.057950	.0016475	.0005312	.000691	.0317354
%RSD	193.3749	78.67318	287.5559	320.1354	268.3695	91.21351	395.5647
#1	-.000318	.0001801	-.032962	.0007508	-.000411	-.000153	-.012216
#2	-.000011	.0000450	-.070626	.0020313	.000563	-.000608	.044598
#3	.000033	.0000586	.043130	-.001238	.000442	-.001511	-.008313

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016414	-.011597	.0001441	.0008719	.0334810	-.003452	.0048631
Stddev	.0006553	.150971	.0001980	.0005442	.0267231	.006970	.0007599
%RSD	39.92091	1301.780	137.4010	62.41735	79.81565	201.9271	15.62515
#1	.0021067	-.123320	.0001198	.0003289	.0495967	.003276	.0049465
#2	.0019255	.160155	-.000041	.0008695	.0026342	-.010640	.0055779
#3	.0008920	-.071627	.000353	.0014174	.0482120	-.002991	.0040650

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.641701	.0042423	.0097053	.0006730	.0095583	.0004800	-.000479
Stddev	.138521	.0034140	.0003813	.0001194	.0033085	.0007099	.001199
%RSD	21.58650	80.47451	3.928616	17.73616	34.61401	147.9082	250.3375
#1	-.739008	.0032192	.0092750	.0005954	.0133659	.0012695	-.000223
#2	-.702985	.0080509	.0100011	.0006131	.0079249	-.000106	.000571
#3	-.483109	.0014569	.0098399	.0008104	.0073842	.000276	-.001786

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB043 Acquired: 12/29/2024 16:38:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB043 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0025742	.0000739	.0099799
Stddev	.0001850	.0002039	.0024604
%RSD	7.188111	275.9478	24.65399
#1	.0023649	.0001830	.0124809
#2	.0026415	-.000161	.0098968
#3	.0027162	.000200	.0075621

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2056.031	25939.38	1943.336	1316.434	1853.954
Stddev	7.935	172.71	5.496	5.626	3.589
%RSD	.3859290	.6658068	.2827988	.4274017	.1936066
#1	2055.347	25841.64	1938.182	1311.213	1853.704
#2	2064.286	25837.70	1949.119	1315.696	1857.662
#3	2048.461	26138.79	1942.708	1322.393	1850.496

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-17 Acquired: 12/29/2024 16:42:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1565062	-.312162	3.541979	.4432969	.1652043	107.0531
Stddev	.0055346	.003436	.004628	.0019744	.0032151	.1772
%RSD	3.536323	1.100824	.1306569	.4453994	1.946147	.1655705
#1	.1627730	-.308776	3.543838	.4455604	.1649194	106.9540
#2	.1544576	-.312063	3.545389	.4424013	.1621412	106.9476
#3	.1522881	-.315646	3.536711	.4419289	.1685524	107.2578

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.222674	.0469997	.0245821	731.8645	2.662414	-.178380
Stddev	.004062	.0004851	.0001512	.4977	.004388	.000980
%RSD	.3322195	1.032112	.6150818	.0680060	.1648069	.5493519
#1	1.219335	.0473322	.0247476	731.6281	2.667435	-.177266
#2	1.221492	.0464431	.0245475	732.4364	2.660488	-.178763
#3	1.227197	.0472239	.0244512	731.5291	2.659318	-.179111

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3348800	F 800.3546	F 39.59305	165.2442	1.046704	-.012294
Stddev	.0059083	1.6818	.11663	.5652	.000830	.000273
%RSD	1.764307	.2101271	.2945843	.3420502	.0792548	2.220322
#1	.3280595	798.5144	39.47976	164.7264	1.047614	-.012386
#2	.3381522	800.7374	39.58662	165.1591	1.046507	-.011986
#3	.3384283	801.8119	39.71276	165.8471	1.045990	-.012508

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.117924	.5908416	7.802462	11.76620	6.323216	.6152794
Stddev	.060579	.0037880	.032663	.18297	.006579	.0072263
%RSD	1.942913	.6411119	.4186280	1.555010	.1040475	1.174474
#1	3.185838	.5874756	7.771115	11.87809	6.320549	.6070396
#2	3.098475	.5901058	7.799973	11.86545	6.330710	.6205390
#3	3.069459	.5949435	7.836299	11.55506	6.318390	.6182595

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-17 Acquired: 12/29/2024 16:42:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0864459	9.514196	7.570461	.1348524	2.777057	.8920451
Stddev	.0006116	.019106	.108092	.0020784	.009073	.0048475
%RSD	.7074581	.2008115	1.427815	1.541280	.3267136	.5434120
#1	.0869306	9.502335	7.686517	.1357126	2.769351	.8941818
#2	.0857588	9.504019	7.472657	.1363627	2.774763	.8954571
#3	.0866482	9.536236	7.552210	.1324819	2.787057	.8864963

Elem	Li6707
Units	ppm
Avg	.1375781
Stddev	.0020667
%RSD	1.502212
#1	.1368590
#2	.1359669
#3	.1399083

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2201.530	28287.25	2263.814	1402.103	1695.067
Stddev	5.655	81.57	23.406	7.368	2.392
%RSD	.2568661	.2883701	1.033934	.5254924	.1411246
#1	2196.159	28355.06	2238.228	1410.568	1692.673
#2	2201.000	28196.73	2284.150	1398.603	1695.071
#3	2207.432	28309.96	2269.062	1397.137	1697.458

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-16LX5 Acquired: 12/29/2024 16:46:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0263444	-.043924	.7563803	.0734027	.0245087	23.21854	.2693969
Stddev	.0063305	.006325	.0016474	.0041602	.0082947	.06191	.0005573
%RSD	24.02993	14.39904	.2177971	5.667670	33.84388	.2666191	.2068493
#1	.0308543	-.038909	.7564157	.0752966	.0188723	23.16750	.2700274
#2	.0191073	-.051029	.7547155	.0762789	.0206204	23.20072	.2691929
#3	.0290714	-.041834	.7580097	.0686325	.0340332	23.28740	.2689705

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110952	.0044138	166.1263	.6131448	-.013560	.0677796	180.2319
Stddev	.0002076	.0000258	.3635	.0032488	.000454	.0048507	.3146
%RSD	1.870855	.5846564	.2187868	.5298542	3.344343	7.156526	.1745411
#1	.0108556	.0044398	165.7067	.6095516	-.013078	.0679448	179.9601
#2	.0112201	.0044134	166.3418	.6158748	-.013978	.0725455	180.1591
#3	.0112100	.0043882	166.3304	.6140079	-.013625	.0628484	180.5765

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.896867	38.15982	.2193250	-.002044	.6758453	.1275816	1.765612
Stddev	.008576	.09552	.0006749	.001287	.0127149	.0159131	.004276
%RSD	.0963975	.2503192	.3077024	62.99518	1.881340	12.47288	.2421805
#1	8.887169	38.07545	.2191389	-.002322	.6832337	.1187396	1.760852
#2	8.899980	38.14048	.2187628	-.003169	.6831387	.1459522	1.766856
#3	8.903453	38.26353	.2200735	-.000640	.6611634	.1180530	1.769129

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.761471	1.250675	.1471338	.0214114	1.933712	1.578627	.0295241
Stddev	.136419	.003489	.0026150	.0003610	.007306	.004701	.0018422
%RSD	7.744611	.2789582	1.777317	1.686108	.3778300	.2977612	6.239497
#1	1.606948	1.248928	.1489502	.0209963	1.932701	1.582645	.0316140
#2	1.865229	1.254692	.1441366	.0215857	1.941471	1.579779	.0288228
#3	1.812236	1.248404	.1483147	.0216523	1.926965	1.573458	.0281357

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-16LX5 Acquired: 12/29/2024 16:46:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5985035	.1885449	.0181878
Stddev	.0016498	.0014749	.0061331
%RSD	.2756533	.7822304	33.72082
#1	.5966162	.1870515	.0112285
#2	.5996717	.1885829	.0205313
#3	.5992226	.1900004	.0228037

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2083.371	26490.13	2016.926	1335.245	1783.402
Stddev	5.680	95.12	10.864	7.518	3.680
%RSD	.2726504	.3590923	.5386545	.5630473	.2063195
#1	2082.510	26505.82	2004.417	1335.074	1786.458
#2	2089.433	26576.43	2022.365	1342.847	1784.430
#3	2078.171	26388.13	2023.997	1327.813	1779.318

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-18 Acquired: 12/29/2024 16:50:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2251348	-.220051	3.529650	.5750394	.3141646	117.9797
Stddev	.0016568	.003887	.004292	.0057158	.0043410	.5836
%RSD	.7359325	1.766374	.1216086	.9939860	1.381759	.4946371
#1	.2243494	-.216421	3.534252	.5685058	.3091525	117.5262
#2	.2270383	-.219580	3.528942	.5791151	.3167277	117.7747
#3	.2240167	-.224152	3.525756	.5774974	.3166136	118.6381

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.563460	.1276777	.1127731	742.9466	2.878114	.7578773
Stddev	.026079	.0004245	.0001436	2.9076	.010021	.0017915
%RSD	.5714845	.3324603	.1273244	.3913655	.3481754	.2363829
#1	4.536984	.1280226	.1129387	740.6878	2.871107	.7593599
#2	4.564271	.1272036	.1126959	741.9248	2.873643	.7558867
#3	4.589124	.1278068	.1126845	746.2272	2.889592	.7583853

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6913940	750.7614	F 38.18642	177.2660	1.942318	.0531505
Stddev	.0084400	3.4083	.21614	1.2778	.003373	.0010506
%RSD	1.220728	.4539740	.5660159	.7208415	.1736677	1.976642
#1	.6967885	747.6091	38.01380	176.3617	1.944136	.0532172
#2	.6957258	750.2972	38.11662	176.7083	1.938426	.0520682
#3	.6816676	754.3780	38.42884	178.7278	1.944393	.0541662

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.124274	1.391919	8.172312	11.10647	6.035639	.6071294
Stddev	.030107	.018523	.039018	.10126	.007443	.0028960
%RSD	.9636560	1.330740	.4774406	.9116902	.1233226	.4769935
#1	3.123273	1.374752	8.130806	11.09619	6.042274	.6040622
#2	3.154870	1.389454	8.208243	11.01075	6.027590	.6075095
#3	3.094680	1.411550	8.177887	11.21248	6.037054	.6098166

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-18 Acquired: 12/29/2024 16:50:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0836385	9.607657	8.508262	.1273485	2.698781	.9138359
Stddev	.0006844	.024169	.049124	.0018435	.019732	.0033698
%RSD	.8183428	.2515595	.5773697	1.447573	.7311330	.3687556
#1	.0828715	9.601102	8.562545	.1284069	2.679163	.9148905
#2	.0838571	9.587442	8.466866	.1284188	2.698554	.9100649
#3	.0841870	9.634428	8.495374	.1252199	2.718624	.9165523

Elem	Li6707
Units	ppm
Avg	.1310306
Stddev	.0028649
%RSD	2.186428
#1	.1277396
#2	.1329675
#3	.1323846

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2243.895	28989.56	2304.808	1435.828	1693.706
Stddev	1.484	86.64	15.431	8.206	1.082
%RSD	.0661166	.2988764	.6695222	.5715262	.0638590
#1	2245.469	29006.01	2290.533	1444.722	1694.189
#2	2243.694	29066.80	2321.180	1434.213	1692.467
#3	2242.522	28895.88	2302.709	1428.550	1694.462

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-19 Acquired: 12/29/2024 16:54:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1306435	-.164033	1.066895	.2395401	.0804187	98.19822	.8614221
Stddev	.0058170	.003957	.007679	.0099239	.0049697	.40094	.0028957
%RSD	4.452584	2.412126	.7197086	4.142903	6.179768	.4083013	.3361592
#1	.1373235	-.166175	1.075596	.2282599	.0805702	97.79081	.8581531
#2	.1279126	-.166457	1.064019	.2469270	.0853109	98.21148	.8636653
#3	.1266945	-.159467	1.061070	.2434333	.0753750	98.59237	.8624480

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0266682	.0118927	601.8534	1.552901	-.021727	.2144498	467.2594
Stddev	.0002967	.0002794	2.5593	.003601	.001821	.0020863	1.7401
%RSD	1.112421	2.349386	.4252415	.2318837	8.383427	.9728448	.3724116
#1	.0264282	.0122060	599.1927	1.551327	-.019632	.2124416	465.3452
#2	.0265764	.0116693	602.0700	1.550355	-.022932	.2166062	467.6872
#3	.0269999	.0118028	604.2976	1.557021	-.022618	.2143017	468.7457

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.43782	124.9092	.4824245	-.009816	1.494986	.4416486	3.272286
Stddev	.05839	.6775	.0048965	.000928	.019975	.0084794	.016386
%RSD	.2856895	.5423609	1.014982	9.449355	1.336139	1.919946	.5007421
#1	20.37517	124.3251	.4880686	-.010178	1.478083	.4346010	3.261810
#2	20.44756	124.7507	.4793131	-.008762	1.517029	.4510587	3.263880
#3	20.49072	125.6519	.4798917	-.010508	1.489847	.4392861	3.291169

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.18790	6.128005	.2648888	.0445028	8.139966	11.18304	.0741714
Stddev	.10174	.054801	.0026854	.0006161	.063595	.12497	.0014116
%RSD	.5919467	.8942734	1.013788	1.384460	.7812692	1.117516	1.903124
#1	17.13399	6.189869	.2671854	.0451995	8.210445	11.09295	.0753682
#2	17.12444	6.085547	.2655448	.0442790	8.086870	11.13046	.0745313
#3	17.30525	6.108600	.2619362	.0440298	8.122582	11.32571	.0726148

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-19 Acquired: 12/29/2024 16:54:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.008286	1.033438	.1477982
Stddev	.012153	.004232	.0028135
%RSD	.6051494	.4094794	1.903611
#1	1.995763	1.029357	.1448062
#2	2.020032	1.033151	.1481979
#3	2.009063	1.037806	.1503905

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2185.063	28055.35	2210.889	1404.983	1671.237
Stddev	16.681	98.51	17.354	5.057	15.164
%RSD	.7634196	.3511264	.7849156	.3599239	.9073258
#1	2167.736	28116.35	2229.146	1410.493	1653.915
#2	2186.439	27941.71	2208.914	1400.554	1677.690
#3	2201.013	28108.00	2194.608	1403.902	1682.108

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-20 Acquired: 12/29/2024 16:57:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1064848	-.092700	.5385924	.1273918	.0434944	95.89800	.8331574
Stddev	.0068497	.005860	.0030342	.0032535	.0012695	.35458	.0041956
%RSD	6.432548	6.320954	.5633648	2.553957	2.918783	.3697492	.5035802
#1	.1077319	-.089078	.5355964	.1269104	.0448282	95.57617	.8283835
#2	.0990972	-.099461	.5385174	.1244058	.0433542	95.83971	.8362591
#3	.1126252	-.089562	.5416635	.1308592	.0423008	96.27812	.8348295

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0178334	.0053571	409.3777	.4071739	.0564361	.1596200	275.6547
Stddev	.0003133	.0002001	.8781	.0006017	.0011470	.0087569	.9903
%RSD	1.756737	3.735674	.2144869	.1477675	2.032372	5.486062	.3592574
#1	.0176603	.0053816	408.6868	.4072407	.0571387	.1503316	274.7482
#2	.0176448	.0051459	409.0805	.4077394	.0570570	.1608035	275.5043
#3	.0181951	.0055439	410.3658	.4065416	.0551125	.1677250	276.7116

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.556875	94.62799	.3438039	-.009248	1.093671	.3157508	1.001412
Stddev	.039925	.30113	.0009612	.000689	.040881	.0014851	.004770
%RSD	.4665826	.3182255	.2795909	7.448286	3.737974	.4703252	.4763678
#1	8.513330	94.36453	.3427155	-.009846	1.132552	.3174654	1.001363
#2	8.565538	94.56320	.3441593	-.009405	1.051047	.3149154	.996667
#3	8.591757	94.95624	.3445368	-.008495	1.097414	.3148716	1.006207

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.82294	4.533430	.1624832	.0308983	3.756077	10.73951	.0403655
Stddev	.15579	.019317	.0022178	.0005382	.005430	.09989	.0006195
%RSD	1.051040	.4261079	1.364957	1.741963	.1445555	.9301134	1.534670
#1	14.70104	4.520049	.1648049	.0313786	3.751726	10.68626	.0408167
#2	14.76931	4.524666	.1622584	.0309997	3.762161	10.67753	.0406206
#3	14.99846	4.555576	.1603864	.0303166	3.754342	10.85474	.0396592

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-20 Acquired: 12/29/2024 16:57:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.441838	.9187025	.1409069
Stddev	.004350	.0018735	.0048513
%RSD	.3017110	.2039307	3.442886
#1	1.441929	.9171628	.1355268
#2	1.437443	.9181563	.1449482
#3	1.446142	.9207884	.1422456

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2275.864	29002.44	2252.560	1453.706	1711.930
Stddev	6.169	176.25	13.239	6.736	3.278
%RSD	.2710531	.6077221	.5877249	.4633978	.1914559
#1	2271.548	28837.52	2249.336	1445.959	1708.962
#2	2273.115	28981.63	2267.113	1456.976	1711.379
#3	2282.929	29188.18	2241.231	1458.184	1715.448

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-21 Acquired: 12/29/2024 17:01:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4967143	-.720178	6.931045	.9177734	.3908774	56.67533
Stddev	.0067472	.004300	.009391	.0079416	.0002428	.07566
%RSD	1.358370	.5971370	.1354962	.8653074	.0621195	.1335003
#1	.5043462	-.723268	6.931380	.9248591	.3910457	56.76252
#2	.4942547	-.715267	6.921490	.9192717	.3909875	56.62692
#3	.4915419	-.722000	6.940264	.9091894	.3905990	56.63654

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.352089	.0787248	.0381368	437.1918	3.647811	-.481393
Stddev	.004441	.0005369	.0003135	.0963	.006152	.001420
%RSD	.1324781	.6820342	.8220456	.0220272	.1686625	.2948949
#1	3.355682	.0792003	.0377753	437.2971	3.642631	-.483006
#2	3.347125	.0788317	.0383325	437.1082	3.646192	-.480844
#3	3.353462	.0781425	.0383028	437.1701	3.654612	-.480331

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.62336	F 1607.658	F 36.25129	71.48660	2.049449	-.032592
Stddev	.04572	2.033	.01294	.13436	.001378	.001429
%RSD	.3126323	.1264431	.0356892	.1879577	.0672240	4.384817
#1	14.59528	1609.841	36.26487	71.55947	2.048664	-.032770
#2	14.59869	1607.313	36.24990	71.56878	2.048643	-.033924
#3	14.67611	1605.820	36.23911	71.33154	2.051040	-.031083

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.764365	.3544963	19.85889	5.032803	6.029844	.7967639
Stddev	.048305	.0110796	.01430	.076372	.008222	.0041431
%RSD	1.747431	3.125437	.0720177	1.517492	.1363626	.5199886
#1	2.790450	.3442380	19.84873	5.114068	6.027522	.8010083
#2	2.794020	.3662460	19.87524	5.021832	6.023032	.7927302
#3	2.708625	.3530050	19.85269	4.962510	6.038977	.7965533

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5156-21 Acquired: 12/29/2024 17:01:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4229032	20.81200	9.703838	.5148905	1.917687	-.452748
Stddev	.0020481	.01908	.025035	.0018493	.008724	.002745
%RSD	.4842983	.0916649	.2579859	.3591597	.4549213	.6063589
#1	.4224512	20.79053	9.711697	.5143207	1.923607	-.454110
#2	.4211189	20.81851	9.724000	.5133931	1.907668	-.454546
#3	.4251396	20.82698	9.675817	.5169576	1.921786	-.449588

Elem	Li6707
Units	ppm
Avg	.0621483
Stddev	.0043035
%RSD	6.924643
#1	.0580779
#2	.0666521
#3	.0617148

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2039.440	26578.85	2096.301	1297.792	1801.868
Stddev	5.232	48.18	10.709	.994	5.417
%RSD	.2565546	.1812875	.5108358	.0765718	.3006553
#1	2043.567	26527.78	2086.037	1297.449	1804.962
#2	2033.556	26623.50	2095.462	1298.912	1795.612
#3	2041.199	26585.27	2107.405	1297.015	1805.029

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-22 Acquired: 12/29/2024 17:05:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3511673	-.507950	4.546946	.6494055	.2609206	68.03090
Stddev	.0034848	.005040	.007348	.0138705	.0034831	.23417
%RSD	.9923438	.9922777	.1616100	2.135870	1.334915	.3442152
#1	.3489480	-.513437	4.543088	.6536745	.2648083	67.76878
#2	.3493700	-.506884	4.542330	.6606397	.2580845	68.21946
#3	.3551838	-.503527	4.555420	.6339023	.2598690	68.10446

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.480215	.0591188	.0254222	398.6619	2.600919	-.287344
Stddev	.016049	.0004192	.0000547	1.4815	.004399	.002335
%RSD	.4611596	.7090024	.2151231	.3716096	.1691481	.8126106
#1	3.463186	.0595948	.0253596	396.9624	2.601076	-.285926
#2	3.495061	.0589569	.0254462	399.6803	2.605237	-.290039
#3	3.482399	.0588048	.0254608	399.3431	2.596443	-.286066

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.232073	F 1163.590	26.41999	76.64479	1.580247	-.025217
Stddev	.045744	3.439	.08084	.33171	.002356	.000693
%RSD	.6325186	.2955151	.3059773	.4327901	.1491096	2.749232
#1	7.179843	1160.130	26.34773	76.41255	1.577528	-.025965
#2	7.265009	1167.007	26.50729	77.02469	1.581540	-.025089
#3	7.251367	1163.634	26.40495	76.49713	1.581674	-.024596

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.927748	.3633115	12.38119	7.350972	6.690996	.5525290
Stddev	.024734	.0045295	.01134	.107412	.012933	.0064468
%RSD	1.283051	1.246714	.0916053	1.461195	.1932956	1.166780
#1	1.950842	.3605086	12.39428	7.289510	6.685322	.5454966
#2	1.901649	.3685370	12.37422	7.474999	6.681870	.5581595
#3	1.930753	.3608888	12.37508	7.288407	6.705797	.5539309

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5156-22 Acquired: 12/29/2024 17:05:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2951002	19.78050	10.25923	.3076701	1.677962	.1840807
Stddev	.0015309	.04914	.04531	.0026845	.006442	.0030472
%RSD	.5187665	.2484504	.4416565	.8725217	.3839097	1.655359
#1	.2959165	19.72964	10.27549	.3060099	1.672083	.1810836
#2	.2933342	19.78412	10.20803	.3107672	1.684848	.1839829
#3	.2960500	19.82773	10.29417	.3062333	1.676956	.1871756

Elem	Li6707
Units	ppm
Avg	.0682150
Stddev	.0021880
%RSD	3.207506
#1	.0659317
#2	.0702932
#3	.0684201

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2110.913	27267.56	2147.893	1348.445	1784.242
Stddev	4.718	181.14	6.841	8.780	3.031
%RSD	.2235243	.6643195	.3184764	.6511490	.1698692
#1	2112.214	27401.97	2155.732	1355.487	1785.926
#2	2114.845	27061.56	2144.816	1338.607	1786.057
#3	2105.681	27339.14	2143.132	1351.240	1780.743

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5259-01 Acquired: 12/29/2024 17:09:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0987993	-.076692	.3430993	.0976151	.0251121	93.17755	.8988717
Stddev	.0076981	.004475	.0010072	.0040847	.0027292	1.02693	.0095170
%RSD	7.791610	5.834987	.2935669	4.184491	10.86786	1.102123	1.058773
#1	.1076057	-.074513	.3432526	.0948809	.0221127	92.01353	.8878989
#2	.0954429	-.073724	.3440211	.1023105	.0274490	93.56363	.9038357
#3	.0933494	-.081840	.3420242	.0956538	.0257746	93.95549	.9048804

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165141	.0049370	514.5833	.2158649	.0550524	.1429592	241.1320
Stddev	.0001467	.0000524	5.9421	.0014183	.0006990	.0095605	2.6293
%RSD	.8885311	1.061058	1.154732	.6570285	1.269767	6.687546	1.090411
#1	.0163963	.0049912	507.8275	.2160807	.0552002	.1342282	238.2052
#2	.0164675	.0048867	516.9232	.2143510	.0556656	.1414739	241.8964
#3	.0166785	.0049332	518.9993	.2171628	.0542912	.1531753	243.2945

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.932285	104.7265	.2973663	-.008950	.8625360	.2337395	.9095359
Stddev	.052506	1.2393	.0004715	.000580	.0059616	.0022784	.0007697
%RSD	1.064543	1.183407	.1585478	6.485720	.6911687	.9747732	.0846221
#1	4.872393	103.2984	.2976787	-.009586	.8567170	.2341190	.9091644
#2	4.954073	105.3613	.2975962	-.008813	.8622604	.2358043	.9104209
#3	4.970390	105.5198	.2968240	-.008450	.8686306	.2312951	.9090225

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.96908	3.997773	.1401738	.0258708	3.440314	8.148813	.0378501
Stddev	.11218	.003140	.0008749	.0007116	.014882	.005077	.0020935
%RSD	.9372418	.0785508	.6241525	2.750791	.4325824	.0623005	5.530934
#1	11.84129	3.998334	.1393583	.0259553	3.453664	8.143012	.0371358
#2	12.01468	3.994390	.1400652	.0251207	3.424268	8.152445	.0362073
#3	12.05128	4.000595	.1410980	.0265365	3.443009	8.150980	.0402073

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5259-01 Acquired: 12/29/2024 17:09:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.342370	.7639181	.1392223
Stddev	.017965	.0097594	.0095151
%RSD	1.338274	1.277550	6.834492
#1	1.323279	.7531087	.1289859
#2	1.344888	.7665637	.1477973
#3	1.358942	.7720820	.1408838

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2188.257	27751.51	2188.014	1401.793	1672.396
Stddev	.721	77.75	7.720	7.054	2.035
%RSD	.0329369	.2801691	.3528394	.5032291	.1216793
#1	2189.012	27815.12	2193.720	1409.899	1674.461
#2	2188.183	27664.84	2179.229	1397.048	1670.393
#3	2187.576	27774.58	2191.091	1398.431	1672.333

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5259-02 Acquired: 12/29/2024 17:13:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1295908	-.174676	1.134989	.2346449	.0733079	94.16052	1.015833
Stddev	.0084323	.003936	.004704	.0023943	.0039695	.31566	.003735
%RSD	6.506853	2.253041	.4144730	1.020392	5.414888	.3352372	.3676330
#1	.1392643	-.178018	1.138324	.2367586	.0769921	94.19966	1.017433
#2	.1257143	-.175672	1.129608	.2320447	.0691042	93.82712	1.011565
#3	.1237940	-.170339	1.137033	.2351314	.0738275	94.45479	1.018501

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0259603	.0098774	364.9651	.5465014	.0085199	.2092180	446.3814
Stddev	.0002774	.0000911	.5354	.0003665	.0010057	.0041139	1.1417
%RSD	1.068499	.9218718	.1467018	.0670590	11.80474	1.966346	.2557751
#1	.0258346	.0098281	364.8676	.5467531	.0074394	.2129350	446.4881
#2	.0262783	.0098216	364.4851	.5466701	.0086914	.2047978	445.1900
#3	.0257680	.0099825	365.5426	.5460809	.0094289	.2099214	447.4660

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.29290	91.81720	.4689004	-.010707	.9329247	.2894605	2.932744
Stddev	.03971	.35414	.0011146	.001883	.0036695	.0067296	.018701
%RSD	.3230458	.3856966	.2377080	17.58651	.3933374	2.324881	.6376728
#1	12.30903	92.04021	.4695136	-.010706	.9322153	.2972312	2.954006
#2	12.24766	91.40886	.4676139	-.012591	.9296616	.2855876	2.918845
#3	12.32201	92.00254	.4695738	-.008825	.9368971	.2855628	2.925380

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.17714	5.103893	.2221791	.0348462	4.020301	8.637962	.0629596
Stddev	.16029	.010962	.0038220	.0008534	.017660	.030831	.0018712
%RSD	1.056159	.2147765	1.720219	2.449101	.4392770	.3569201	2.972092
#1	15.23432	5.106276	.2184152	.0356307	4.007582	8.673414	.0648365
#2	15.30101	5.091936	.2220654	.0339375	4.012856	8.623043	.0610942
#3	14.99610	5.113468	.2260566	.0349704	4.040464	8.617428	.0629480

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5259-02 Acquired: 12/29/2024 17:13:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.406295	.2328848	.1404920
Stddev	.011871	.0008298	.0011168
%RSD	.8441135	.3563103	.7949137
#1	1.417793	.2321350	.1395012
#2	1.394084	.2337764	.1417022
#3	1.407008	.2327430	.1402725

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2247.061	28531.03	2216.759	1430.210	1739.631
Stddev	2.913	68.29	2.924	6.178	6.058
%RSD	.1296375	.2393561	.1319053	.4319765	.3482171
#1	2246.062	28609.83	2214.358	1427.819	1739.332
#2	2250.342	28494.13	2220.015	1437.226	1745.833
#3	2244.779	28489.12	2215.904	1425.584	1733.729

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5259-03 Acquired: 12/29/2024 17:16:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0986349	-.082380	.4647881	.1082163	.0305001	93.69871	.8454523
Stddev	.0048571	.003089	.0010931	.0034688	.0009498	1.04735	.0080649
%RSD	4.924350	3.750049	.2351897	3.205411	3.114117	1.117790	.9539120
#1	.1004103	-.085128	.4650933	.1083386	.0315649	92.96876	.8405069
#2	.1023546	-.079036	.4635748	.1116223	.0301953	93.22861	.8410912
#3	.0931399	-.082976	.4656962	.1046880	.0297401	94.89875	.8547587

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0167341	.0068255	345.9116	.2789433	.0621546	.2125064	246.4134
Stddev	.0001166	.0001429	3.5932	.0008220	.0004552	.0106427	2.7797
%RSD	.6964890	2.093167	1.038770	.2946964	.7324378	5.008167	1.128049
#1	.0168142	.0069533	343.3206	.2786822	.0622281	.2234190	244.0390
#2	.0166004	.0066713	344.4007	.2798642	.0625685	.2119443	245.7302
#3	.0167878	.0068520	350.0136	.2782835	.0616670	.2021559	249.4709

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.246960	158.8554	.3330611	-.007817	1.012396	.2842552	.9261150
Stddev	.044611	1.7359	.0001159	.001578	.007849	.0048596	.0060835
%RSD	.8502263	1.092777	.0348096	20.18912	.7752742	1.709597	.6568882
#1	5.214924	157.4858	.3329453	-.009639	1.003829	.2897301	.9302747
#2	5.228044	158.2726	.3330609	-.006938	1.014120	.2825827	.9289375
#3	5.297913	160.8077	.3331772	-.006874	1.019240	.2804526	.9191329

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.34262	5.671484	.1730135	.0158285	6.716635	8.357574	.0495687
Stddev	.36256	.010495	.0014815	.0006008	.003370	.091145	.0029215
%RSD	2.527835	.1850451	.8562747	3.795824	.0501720	1.090569	5.893785
#1	14.24640	5.662014	.1713381	.0151842	6.713584	8.392167	.0498472
#2	14.03788	5.682767	.1741505	.0159278	6.716068	8.254197	.0523410
#3	14.74358	5.669671	.1735518	.0163735	6.720252	8.426359	.0465180

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-03 Acquired: 12/29/2024 17:16:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.712112	.1614496	.1710526
Stddev	.010517	.0019879	.0047256
%RSD	.6142905	1.231276	2.762683
#1	1.703949	.1612371	.1693254
#2	1.708406	.1595765	.1674335
#3	1.723980	.1635352	.1763989

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2248.796	28491.16	2218.896	1432.200	1706.024
Stddev	9.636	96.47	17.303	10.988	6.931
%RSD	.4285168	.3385871	.7797988	.7672045	.4062571
#1	2254.745	28472.32	2205.067	1425.564	1710.733
#2	2253.965	28405.50	2238.299	1426.152	1709.274
#3	2237.677	28595.66	2213.320	1444.883	1698.065

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-04 Acquired: 12/29/2024 17:20:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1130479	-.097175	.4716401	.1250680	.0333910	107.8557	1.075208
Stddev	.0034470	.002769	.0021764	.0039591	.0015744	.2243	.001202
%RSD	3.049188	2.849474	.4614596	3.165529	4.714982	.2079350	.1118276
#1	.1149000	-.099486	.4713645	.1296191	.0351516	107.8927	1.075826
#2	.1151729	-.097933	.4696147	.1231664	.0329031	107.6152	1.073822
#3	.1090707	-.094106	.4739413	.1224185	.0321183	108.0591	1.075976

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184437	.0085173	341.4624	.3197246	.0691399	.2537111	269.7834
Stddev	.0001394	.0000395	.9850	.0018692	.0008233	.0017271	.5860
%RSD	.7557631	.4635402	.2884552	.5846256	1.190723	.6807306	.2172023
#1	.0185166	.0085578	341.6211	.3183057	.0682459	.2526893	269.7023
#2	.0182830	.0085150	340.4077	.3218425	.0693071	.2527389	269.2422
#3	.0185316	.0084789	342.3584	.3190254	.0698668	.2557052	270.4057

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.041010	159.7454	.3867222	-.007082	1.199695	.3486641	1.270426
Stddev	.008954	.5762	.0002263	.000657	.017197	.0070294	.005569
%RSD	.1271750	.3607008	.0585137	9.272321	1.433420	2.016092	.4383265
#1	7.049201	160.0341	.3865652	-.007776	1.217249	.3547108	1.271569
#2	7.031450	159.0819	.3866198	-.006470	1.198957	.3503300	1.264374
#3	7.042380	160.1201	.3869816	-.007001	1.182880	.3409514	1.275334

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.86729	6.506028	.1859211	.0142806	6.576077	8.706874	.0487716
Stddev	.02613	.012575	.0005193	.0006961	.013996	.016831	.0023841
%RSD	.1646915	.1932783	.2792920	4.874340	.2128293	.1933119	4.888342
#1	15.84583	6.493467	.1854865	.0150404	6.560050	8.714716	.0490897
#2	15.85966	6.506002	.1857805	.0136736	6.585890	8.687552	.0462444
#3	15.89639	6.518616	.1864961	.0141278	6.582291	8.718352	.0509807

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-04 Acquired: 12/29/2024 17:20:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.137974	.1654266	.2029151
Stddev	.009780	.0007491	.0052157
%RSD	.4574377	.4528028	2.570370
#1	2.137271	.1651759	.2089028
#2	2.128564	.1648350	.1993606
#3	2.148086	.1662688	.2004821

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2278.207	28990.35	2258.787	1456.983	1706.586
Stddev	5.033	208.28	18.432	3.674	1.108
%RSD	.2209020	.7184580	.8160143	.2521423	.0648961
#1	2278.798	28775.16	2237.571	1452.885	1706.727
#2	2282.918	29004.92	2267.938	1458.084	1707.616
#3	2272.905	29190.96	2270.854	1459.981	1705.415

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-05 Acquired: 12/29/2024 17:24:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X0D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1103860	-.090208	.4621304	.1227657	.0334676	107.8915	1.076856
Stddev	.0010761	.003568	.0017247	.0050034	.0023634	.3171	.003252
%RSD	.9748642	3.954769	.3732042	4.075549	7.061612	.2938696	.3019960
#1	.1113002	-.089337	.4641113	.1250260	.0353531	107.6874	1.076001
#2	.1106578	-.094131	.4609618	.1170310	.0342333	107.7303	1.074117
#3	.1092001	-.087158	.4613182	.1262402	.0308163	108.2567	1.080450

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184301	.0080669	362.0089	.3089226	.0712286	.2600519	268.2656
Stddev	.0001268	.0001113	.4638	.0002803	.0006959	.0152217	.8742
%RSD	.6880783	1.379910	.1281105	.0907326	.9769268	5.853338	.3258701
#1	.0182871	.0081588	361.4959	.3087190	.0714404	.2473846	267.4632
#2	.0184741	.0079431	362.1326	.3088065	.0717939	.2769380	268.1365
#3	.0185290	.0080988	362.3984	.3092423	.0704514	.2558329	269.1972

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.969848	165.4199	.3918818	-.005994	1.237311	.3318881	1.195493
Stddev	.020645	.0314	.0014540	.000517	.043930	.0122834	.001964
%RSD	.2962011	.0189893	.3710365	8.628036	3.550433	3.701061	.1643154
#1	6.956750	165.4193	.3910175	-.006095	1.269264	.3240359	1.195255
#2	6.959148	165.3887	.3910673	-.005433	1.187216	.3255849	1.193659
#3	6.993646	165.4516	.3935605	-.006453	1.255454	.3460435	1.197566

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.87181	6.345141	.1822628	.0153536	6.917372	8.652582	.0483906
Stddev	.11354	.010182	.0024597	.0012780	.033640	.086218	.0011631
%RSD	.7153868	.1604659	1.349536	8.323789	.4863052	.9964387	2.403455
#1	15.79175	6.356280	.1803840	.0141100	6.953351	8.637922	.0470647
#2	16.00175	6.342831	.1850468	.0166634	6.912062	8.574634	.0492382
#3	15.82190	6.336313	.1813574	.0152875	6.886704	8.745189	.0488690

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-05 Acquired: 12/29/2024 17:24:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X0D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.103669	.1804362	.2070019
Stddev	.002707	.0013109	.0015378
%RSD	.1286914	.7265110	.7428959
#1	2.103714	.1796529	.2083997
#2	2.100939	.1819495	.2072514
#3	2.106353	.1797061	.2053546

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2252.968	28749.85	2237.593	1444.700	1686.684
Stddev	8.476	173.79	6.725	5.495	4.716
%RSD	.3761991	.6045052	.3005456	.3803431	.2796128
#1	2255.629	28704.94	2235.815	1441.632	1687.429
#2	2259.794	28602.91	2245.028	1441.424	1690.983
#3	2243.481	28941.69	2231.935	1451.044	1681.640

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-04LX5 Acquired: 12/29/2024 17:28:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X0L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153466	-.001206	.0911412	.0083576	-.001539	22.87812	.2275279
Stddev	.0056117	.005195	.0016823	.0059960	.002302	.22651	.0034843
%RSD	36.56661	430.7508	1.845805	71.74310	149.5392	.9900914	1.531374
#1	.0216407	-.002041	.0925663	.0152420	.000941	22.62789	.2238690
#2	.0135338	-.005933	.0892854	.0055512	-.003607	22.93729	.2308064
#3	.0108654	.004356	.0915717	.0042794	-.001951	23.06917	.2279083

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040277	.0013218	73.63540	.0687182	.0335082	.0594352	58.71571
Stddev	.0000638	.0001200	.35904	.0008983	.0007566	.0103281	.24020
%RSD	1.584036	9.080748	.4875981	1.307255	2.258094	17.37701	.4090845
#1	.0040595	.0014577	73.22518	.0697509	.0330434	.0480424	58.45030
#2	.0040694	.0012773	73.78856	.0682858	.0343812	.0681849	58.77869
#3	.0039543	.0012304	73.89248	.0681178	.0330998	.0620783	58.91814

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.538197	34.67625	.0724015	-.001405	.2662563	.0660381	.2748262
Stddev	.012630	.10454	.0003171	.000654	.0149111	.0096229	.0014974
%RSD	.8210824	.3014692	.4380247	46.54552	5.600265	14.57175	.5448637
#1	1.523624	34.55704	.0722114	-.001955	.2502748	.0680411	.2756982
#2	1.545960	34.75226	.0727676	-.001578	.2797953	.0745018	.2756834
#3	1.545007	34.71946	.0722254	-.000682	.2686989	.0555713	.2730972

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.415792	1.209985	.0387325	.0042565	1.239067	1.890219	.0112958
Stddev	.170906	.003294	.0009228	.0001019	.005219	.010192	.0007484
%RSD	7.074519	.2722020	2.382586	2.393493	.4211987	.5392078	6.625250
#1	2.381371	1.213416	.0393113	.0043168	1.242868	1.878940	.0107034
#2	2.264717	1.209689	.0376683	.0043138	1.233117	1.898768	.0110471
#3	2.601289	1.206849	.0392181	.0041389	1.241216	1.892949	.0121368

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-04LX5 Acquired: 12/29/2024 17:28:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X0L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.4571055	.0335634	.0269332
Stddev	.0063288	.0005966	.0030711
%RSD	1.384526	1.777473	11.40283
#1	.4497987	.0334872	.0234814
#2	.4608639	.0330086	.0293631
#3	.4606539	.0341944	.0279552

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2102.121	26792.04	2015.329	1347.705	1808.534
Stddev	2.234	73.65	10.372	2.013	3.546
%RSD	.1062890	.2749045	.5146355	.1493793	.1960698
#1	2101.927	26722.54	2027.124	1348.182	1804.467
#2	2104.446	26869.24	2007.634	1345.496	1810.975
#3	2099.990	26784.35	2011.230	1349.436	1810.161

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-06 Acquired: 12/29/2024 17:32:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X0S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1907840	-.019720	.4945836	.2793942	.2036294	110.0521	4.576582
Stddev	.0068089	.003468	.0016868	.0027506	.0031579	.5679	.024498
%RSD	3.568881	17.58537	.3410627	.9844680	1.550794	.5160482	.5352801
#1	.1974947	-.017326	.4927722	.2763218	.2072757	109.4298	4.550827
#2	.1838811	-.018138	.4961095	.2816275	.2018271	110.1841	4.579329
#3	.1909761	-.023697	.4948692	.2802333	.2017853	110.5424	4.599591

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1033578	.1024699	335.6689	.6682148	1.030349	.6541943	267.7370
Stddev	.0003293	.0000839	1.8809	.0002867	.002331	.0053781	1.7279
%RSD	.3186058	.0818496	.5603556	.0429032	.2262062	.8220945	.6453571
#1	.1037181	.1023762	333.7139	.6682685	1.028042	.6499062	265.8890
#2	.1032830	.1025381	335.8270	.6679050	1.030303	.6524483	268.0098
#3	.1030724	.1024955	337.4658	.6684708	1.032702	.6602285	269.3122

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.802588	157.7879	1.335841	.0549893	1.219370	1.208292	2.081770
Stddev	.056294	.9887	.001836	.0006394	.022256	.017151	.008315
%RSD	.7214789	.6266311	.1374209	1.162706	1.825201	1.419438	.3994405
#1	7.743512	156.8450	1.333841	.0556825	1.193671	1.191791	2.090614
#2	7.808642	157.7019	1.336234	.0544227	1.232176	1.226026	2.080588
#3	7.855611	158.8169	1.337449	.0548626	1.232263	1.207059	2.074110

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.57687	6.325039	.1891224	.0142675	6.405161	8.277557	.0495970
Stddev	.18891	.012863	.0017445	.0006627	.021468	.028725	.0015984
%RSD	1.212741	.2033736	.9224183	4.644790	.3351702	.3470198	3.222718
#1	15.41741	6.310217	.1896406	.0141842	6.380599	8.248834	.0492167
#2	15.52769	6.331619	.1871775	.0136504	6.420340	8.306284	.0513512
#3	15.78550	6.333282	.1905491	.0149679	6.414546	8.277553	.0482231

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-06 Acquired: 12/29/2024 17:32:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X0S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.105810	.1566334	.2012656
Stddev	.010664	.0006963	.0019092
%RSD	.5064185	.4445397	.9485892
#1	2.094187	.1569976	.1990616
#2	2.108103	.1558306	.2023267
#3	2.115142	.1570721	.2024085

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2256.084	28706.38	2243.507	1442.928	1701.277
Stddev	4.833	34.54	6.508	7.398	4.051
%RSD	.2142035	.1203077	.2901010	.5126949	.2381407
#1	2253.233	28732.69	2250.580	1434.695	1700.997
#2	2261.663	28719.18	2242.170	1445.072	1705.462
#3	2253.354	28667.27	2237.771	1449.017	1697.374

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-07 Acquired: 12/29/2024 17:35:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0863387	-.077595	.8220103	.1043016	.0324149	79.15451	.9305905
Stddev	.0018659	.002994	.0049410	.0044370	.0004157	.14690	.0009980
%RSD	2.161144	3.857874	.6010861	4.254047	1.282321	.1855809	.1072458
#1	.0878132	-.074150	.8230541	.1068771	.0326716	79.00977	.9306891
#2	.0869618	-.079560	.8166308	.0991782	.0326377	79.15028	.9295468
#3	.0842409	-.079075	.8263460	.1068496	.0319353	79.30347	.9315355

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0160847	.0075413	408.3003	.2897992	.0453207	.2021870	241.5967
Stddev	.0003735	.0001845	1.0047	.0037050	.0004803	.0071436	.6094
%RSD	2.322275	2.446878	.2460606	1.278478	1.059776	3.533184	.2522231
#1	.0161398	.0073284	407.3104	.2894683	.0448126	.1967238	241.2050
#2	.0164277	.0076548	408.2712	.2862707	.0457673	.2102709	241.2864
#3	.0156867	.0076407	409.3192	.2936585	.0453823	.1995664	242.2988

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.898080	155.4475	.2939613	-.006717	1.121713	.2454776	1.318970
Stddev	.030436	.7290	.0001038	.000896	.025883	.0121810	.014426
%RSD	.4412187	.4689646	.0353014	13.34286	2.307466	4.962157	1.093745
#1	6.880941	155.0461	.2939740	-.005749	1.107288	.2570133	1.307742
#2	6.880077	155.0074	.2940581	-.006882	1.106257	.2327404	1.313926
#3	6.933220	156.2890	.2938517	-.007518	1.151594	.2466791	1.335240

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.09407	5.285910	.1783099	.0160460	6.701492	7.906903	.0513319
Stddev	.00948	.007882	.0017917	.0006617	.011454	.040992	.0022681
%RSD	.0783557	.1491119	1.004846	4.123752	.1709182	.5184303	4.418459
#1	12.09264	5.286358	.1763825	.0167725	6.697671	7.861429	.0536120
#2	12.08540	5.277814	.1786225	.0158879	6.692436	7.918260	.0490760
#3	12.10418	5.293559	.1799248	.0154777	6.714368	7.941018	.0513078

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-07 Acquired: 12/29/2024 17:35:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.951648	.2491917	.1220353
Stddev	.009444	.0018114	.0029213
%RSD	.4838740	.7269274	2.393802
#1	1.953130	.2490789	.1201958
#2	1.941551	.2510569	.1254038
#3	1.960262	.2474393	.1205064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2190.828	27859.52	2202.142	1406.979	1683.093
Stddev	1.109	218.65	6.705	13.813	2.093
%RSD	.0506253	.7848165	.3044964	.9817413	.1243445
#1	2189.568	27937.43	2209.531	1416.949	1683.356
#2	2191.656	28028.53	2200.453	1412.775	1680.881
#3	2191.259	27612.58	2196.443	1391.212	1685.042

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-08 Acquired: 12/29/2024 17:39:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0895888	-.080940	.7734217	.1137833	.0332073	82.91920	.9882115
Stddev	.0004555	.004749	.0005885	.0093802	.0031196	.27827	.0006053
%RSD	.5084806	5.867530	.0760942	8.243962	9.394356	.3355920	.0612538
#1	.0894133	-.079832	.7732696	.1048850	.0340899	82.61676	.9875251
#2	.0901060	-.086146	.7740714	.1235808	.0297415	82.97644	.9886691
#3	.0892471	-.076843	.7729242	.1128842	.0357905	83.16440	.9884403

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0167804	.0063638	384.5716	.2750789	.0461213	.2111722	251.2640
Stddev	.0000740	.0001267	1.5350	.0018819	.0006200	.0015028	.6758
%RSD	.4412072	1.990708	.3991366	.6841335	1.344328	.7116288	.2689530
#1	.0167318	.0064058	382.9262	.2765668	.0464859	.2112566	250.4836
#2	.0167439	.0064641	384.8238	.2729634	.0454054	.2096290	251.6511
#3	.0168656	.0062214	385.9649	.2757066	.0464726	.2126309	251.6571

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.579128	156.2344	.2900070	-.007251	1.160222	.2461575	1.245333
Stddev	.018573	.3721	.0011322	.000378	.020110	.0111853	.005102
%RSD	.2822961	.2381752	.3903979	5.209744	1.733275	4.543973	.4097272
#1	6.559179	155.8555	.2888857	-.007688	1.163337	.2439199	1.250943
#2	6.595919	156.5993	.2911497	-.007033	1.138737	.2582925	1.244088
#3	6.582288	156.2485	.2899856	-.007034	1.178593	.2362601	1.240969

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.75909	5.044821	.1787314	.0162591	6.311972	7.874473	.0515634
Stddev	.03998	.012783	.0013053	.0009269	.009544	.048418	.0028723
%RSD	.3133369	.2533859	.7303088	5.700468	.1512098	.6148785	5.570462
#1	12.79757	5.057298	.1791906	.0173262	6.322305	7.845891	.0505883
#2	12.71776	5.031753	.1797451	.0156551	6.310124	7.847151	.0493056
#3	12.76195	5.045413	.1772586	.0157960	6.303487	7.930377	.0547964

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5259-08 Acquired: 12/29/2024 17:39:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.006460	.2308197	.1312973
Stddev	.006106	.0023935	.0039715
%RSD	.3043203	1.036980	3.024807
#1	2.008817	.2290386	.1300205
#2	1.999527	.2298801	.1357502
#3	2.011037	.2335405	.1281213

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2194.366	27854.35	2173.333	1410.782	1675.901
Stddev	3.877	36.11	9.887	.983	4.424
%RSD	.1767017	.1296493	.4549235	.0696742	.2639900
#1	2194.041	27813.07	2179.002	1409.786	1673.133
#2	2198.396	27869.89	2179.079	1411.752	1681.004
#3	2190.661	27880.09	2161.916	1410.807	1673.567

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-09 Acquired: 12/29/2024 17:43:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0941924	-.062364	.7758513	.0806491	.0220995	85.59464	.8653597
Stddev	.0033079	.005650	.0027712	.0034332	.0023925	.29282	.0036805
%RSD	3.511832	9.059876	.3571798	4.256981	10.82600	.3420963	.4253112
#1	.0903753	-.056679	.7730216	.0838543	.0243595	85.81319	.8664285
#2	.0962200	-.062435	.7759724	.0810667	.0195935	85.26194	.8612631
#3	.0959819	-.067978	.7785600	.0770261	.0223456	85.70879	.8683874

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151149	.0058496	458.2917	.2033659	.0730071	.1879673	219.0847
Stddev	.0001272	.0000913	2.3245	.0012583	.0004899	.0052493	1.4178
%RSD	.8412659	1.561133	.5072163	.6187218	.6710211	2.792669	.6471565
#1	.0152402	.0057448	459.6436	.2033741	.0735723	.1832627	219.7889
#2	.0149860	.0058916	455.6075	.2046200	.0727043	.1870097	217.4527
#3	.0151184	.0059124	459.6238	.2021035	.0727446	.1936294	220.0127

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.486283	191.4832	.3044508	-.008163	1.120007	.2414210	1.324175
Stddev	.029200	1.3415	.0013190	.000873	.008670	.0112119	.006234
%RSD	.5322300	.7006007	.4332369	10.69652	.7741459	4.644109	.4708107
#1	5.508713	192.4599	.3031871	-.007179	1.127863	.2493359	1.322000
#2	5.453267	189.9536	.3043463	-.008847	1.110704	.2463360	1.331206
#3	5.496869	192.0362	.3058189	-.008461	1.121454	.2285910	1.319320

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.71625	6.395720	.1676513	.0185891	9.870818	7.510571	.0476956
Stddev	.09083	.002808	.0015798	.0003923	.007378	.075004	.0011668
%RSD	.7142589	.0438974	.9422903	2.110565	.0747457	.9986428	2.446387
#1	12.79163	6.397916	.1666639	.0184685	9.863071	7.574703	.0486642
#2	12.74171	6.392557	.1668167	.0182712	9.877761	7.428098	.0464002
#3	12.61541	6.396687	.1694733	.0190275	9.871622	7.528914	.0480223

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5259-09 Acquired: 12/29/2024 17:43:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.696396	.2758485	.1564223
Stddev	.003904	.0004020	.0049217
%RSD	.2301262	.1457216	3.146447
#1	1.700819	.2753862	.1612557
#2	1.693430	.2761158	.1565943
#3	1.694941	.2760435	.1514168

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2224.457	28271.38	2220.012	1425.540	1667.502
Stddev	6.883	134.95	17.674	8.162	6.560
%RSD	.3094435	.4773518	.7961399	.5725508	.3934208
#1	2225.650	28408.21	2210.121	1434.130	1666.640
#2	2230.667	28138.38	2240.417	1417.888	1674.451
#3	2217.056	28267.55	2209.498	1424.600	1661.416

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-10 Acquired: 12/29/2024 17:47:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1251329	-.085847	.3688924	.1126948	.0331680	97.33741	.9971083
Stddev	.0059045	.007099	.0052093	.0049126	.0028349	.21187	.0015658
%RSD	4.718624	8.269341	1.412135	4.359248	8.547070	.2176631	.1570347
#1	.1305608	-.090557	.3714870	.1177966	.0309072	97.43927	.9988989
#2	.1188458	-.077682	.3628954	.1122915	.0322481	97.09385	.9959962
#3	.1259920	-.089301	.3722948	.1079962	.0363486	97.47911	.9964297

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0179745	.0059914	392.5755	.2291024	.0741366	.2018160	260.4693
Stddev	.0000763	.0000297	.5812	.0012985	.0003937	.0068668	.2550
%RSD	.4243290	.4959880	.1480409	.5667745	.5310757	3.402497	.0978905
#1	.0180475	.0059594	392.9808	.2281541	.0738194	.2073921	260.6950
#2	.0179808	.0059967	391.9096	.2285707	.0745772	.1941460	260.1927
#3	.0178953	.0060182	392.8361	.2305823	.0740130	.2039099	260.5201

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.857565	201.6378	.3618652	-.008812	1.226272	.2738035	.8769305
Stddev	.015829	.2415	.0002658	.000330	.019124	.0093514	.0036012
%RSD	.2702271	.1197856	.0734461	3.746142	1.559557	3.415368	.4106579
#1	5.875756	201.8877	.3619921	-.009144	1.245515	.2793514	.8772223
#2	5.850010	201.4056	.3615598	-.008484	1.207269	.2790523	.8731923
#3	5.846929	201.6200	.3620438	-.008808	1.226032	.2630068	.8803768

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.93454	6.007716	.1880970	.0168173	8.674513	8.565528	.0425892
Stddev	.06547	.010251	.0017823	.0005136	.009075	.013480	.0027031
%RSD	.4383571	.1706321	.9475193	3.053917	.1046176	.1573698	6.346897
#1	14.93410	6.016446	.1865539	.0169113	8.676075	8.550479	.0453435
#2	15.00023	5.996428	.1876894	.0172775	8.682706	8.569611	.0399404
#3	14.86930	6.010274	.1900478	.0162633	8.664759	8.576494	.0424837

Reviewed By:mohan
On:12/31/2024
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Inst Id :P5

Sample Name: P5259-10 Acquired: 12/29/2024 17:47:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	2.045446	.2190882	.1800258
Stddev	.005786	.0006731	.0029284
%RSD	.2828590	.3072184	1.626631
#1	2.048790	.2186125	.1833153
#2	2.048783	.2187938	.1777030
#3	2.038765	.2198583	.1790590

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2265.241	28923.19	2268.211	1457.882	1673.333
Stddev	5.535	40.94	1.603	5.000	5.814
%RSD	.2443597	.1415521	.0706630	.3429965	.3474510
#1	2258.964	28916.47	2267.079	1453.162	1666.811
#2	2267.335	28967.07	2270.045	1463.122	1675.214
#3	2269.423	28886.02	2267.509	1457.360	1677.973

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-11 Acquired: 12/29/2024 17:51:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1044187	-.077101	.4274597	.0993797	.0289079	80.30434	.8790992
Stddev	.0073725	.005811	.0026977	.0060095	.0026387	.44421	.0043992
%RSD	7.060489	7.536862	.6311032	6.046976	9.127978	.5531637	.5004222
#1	.1054035	-.077253	.4274299	.1028336	.0307965	80.11722	.8784457
#2	.1112493	-.071216	.4247770	.1028650	.0258929	80.81150	.8837886
#3	.0966033	-.082835	.4301722	.0924406	.0300343	79.98429	.8750633

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157824	.0056021	368.5532	.2101865	.0594188	.1797367	241.5758
Stddev	.0000513	.0000395	2.0176	.0003975	.0007225	.0030227	1.4113
%RSD	.3248584	.7048096	.5474469	.1891305	1.215879	1.681725	.5841987
#1	.0157527	.0055810	368.4793	.2097733	.0601445	.1831790	241.6404
#2	.0158416	.0055776	370.6069	.2102202	.0586996	.1785148	242.9537
#3	.0157528	.0056476	366.5736	.2105662	.0594121	.1775162	240.1333

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.833855	174.9491	.3170104	-.006708	1.057994	.2471737	.9741054
Stddev	.039109	.9628	.0006486	.001563	.007953	.0011088	.0018345
%RSD	.6703759	.5503111	.2045845	23.30075	.7516769	.4485736	.1883312
#1	5.842169	175.1099	.3163429	-.007277	1.065523	.2460129	.9759999
#2	5.868138	175.8213	.3176382	-.004941	1.058781	.2472863	.9739789
#3	5.791258	173.9160	.3170500	-.007908	1.049677	.2482218	.9723374

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.68812	5.702998	.1727477	.0154787	7.918243	7.811714	.0394501
Stddev	.06391	.005150	.0016263	.0005312	.007894	.083810	.0012375
%RSD	.5036655	.0903057	.9414299	3.431976	.0996968	1.072871	3.136962
#1	12.63248	5.705216	.1729127	.0148733	7.910068	7.820312	.0408617
#2	12.67397	5.697110	.1742852	.0158670	7.918839	7.890893	.0389369
#3	12.75792	5.706667	.1710452	.0156958	7.925823	7.723936	.0385517

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-11 Acquired: 12/29/2024 17:51:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.666155	.2194505	.1424098
Stddev	.003910	.0013885	.0013612
%RSD	.2346824	.6326924	.9558344
#1	1.664091	.2178563	.1439360
#2	1.670665	.2201007	.1419721
#3	1.663710	.2203946	.1413213

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2237.773	28549.67	2225.535	1441.347	1700.681
Stddev	3.787	74.02	25.450	7.601	3.208
%RSD	.1692323	.2592555	1.143547	.5273878	.1886498
#1	2240.216	28541.76	2223.141	1433.776	1704.085
#2	2239.691	28479.92	2201.366	1441.285	1700.246
#3	2233.410	28627.32	2252.097	1448.979	1697.713

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-12 Acquired: 12/29/2024 17:54:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0918771	-.050627	.1620647	.0712380	.0160653	70.16074
Stddev	.0064683	.002840	.0027033	.0032391	.0033924	.31300
%RSD	7.040147	5.609005	1.668059	4.546932	21.11641	.4461134
#1	.0844358	-.052090	.1620843	.0687807	.0176419	69.98735
#2	.0950425	-.047354	.1593517	.0700246	.0183825	69.97280
#3	.0961531	-.052437	.1647582	.0749086	.0121715	70.52205

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5754866	.0137430	.0046055	F 825.8897	.1406261	.0832025
Stddev	.0037174	.0000587	.0001707	3.0948	.0004718	.0007568
%RSD	.6459654	.4271055	3.705800	.3747266	.3355145	.9096421
#1	.5735113	.0138108	.0047470	823.9080	.1401653	.0823926
#2	.5731739	.0137086	.0044160	824.3051	.1411082	.0838919
#3	.5797748	.0137096	.0046536	829.4559	.1406048	.0833230

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1611398	212.1937	5.386691	123.7485	.3022782	-.007719
Stddev	.0053339	1.1290	.026832	.7010	.0020401	.001070
%RSD	3.310091	.5320436	.4981114	.5664898	.6749113	13.86462
#1	.1668398	211.4904	5.379433	123.5369	.3013962	-.006909
#2	.1603103	211.5947	5.364235	123.1776	.3008273	-.008932
#3	.1562693	213.4959	5.416405	124.5309	.3046109	-.007316

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.086482	.1746039	.8715976	10.16549	4.964601	.1391744
Stddev	.020928	.0122002	.0055061	.20257	.001672	.0025738
%RSD	1.926256	6.987354	.6317291	1.992715	.0336699	1.849315
#1	1.080379	.1848254	.8779504	10.19985	4.962703	.1416061
#2	1.109783	.1778887	.8681993	9.94794	4.965251	.1364789
#3	1.069283	.1610976	.8686432	10.34869	4.965851	.1394381

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: P5259-12 Acquired: 12/29/2024 17:54:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0467937	4.514573	5.830811	.0326384	1.246876	.7947924
Stddev	.0008353	.015279	.024155	.0025199	.004684	.0031909
%RSD	1.784984	.3384358	.4142730	7.720582	.3756639	.4014764
#1	.0468529	4.497132	5.803032	.0313287	1.247410	.7911100
#2	.0475977	4.525596	5.842518	.0310431	1.241948	.7967426
#3	.0459304	4.520992	5.846882	.0355435	1.251271	.7965246

Elem	Li6707
Units	ppm
Avg	.1112811
Stddev	.0011645
%RSD	1.046399
#1	.1117865
#2	.1121075
#3	.1099494

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2216.766	28268.70	2208.884	1424.768	1644.892
Stddev	4.537	75.77	14.121	8.183	2.290
%RSD	.2046734	.2680178	.6392618	.5743391	.1392290
#1	2214.425	28229.45	2219.422	1415.812	1647.013
#2	2213.877	28356.03	2214.389	1431.854	1642.464
#3	2221.995	28220.61	2192.840	1426.636	1645.199

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV044 Acquired: 12/29/2024 17:58:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV044 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.997641	4.696708	24.17842	4.993035	4.952793	403.6991	10.15368
Stddev	.012294	.011499	.02500	.011820	.015737	6.1380	.13011
%RSD	.2459962	.2448367	.1034156	.2367325	.3177334	1.520432	1.281386
#1	4.993777	4.709642	24.20114	4.990767	4.940688	397.7253	10.02226
#2	5.011402	4.692840	24.15163	4.982514	4.947109	403.3828	10.15635
#3	4.987743	4.687641	24.18249	5.005825	4.970582	409.9891	10.28243

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5078485	2.445948	398.8455	15.16513	2.364660	14.42709	399.0387
Stddev	.0094579	.002438	6.3049	.16053	.005369	.23383	6.8144
%RSD	1.862354	.0996565	1.580779	1.058527	.2270662	1.620800	1.707698
#1	.4983665	2.448436	393.2611	15.34001	2.370845	14.25905	392.3557
#2	.5078970	2.443564	397.5926	15.13091	2.361946	14.32808	398.7832
#3	.5172821	2.445844	405.6827	15.02448	2.361190	14.69414	405.9772

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.42097	394.5939	2.464388	1.253121	416.9955	2.431132	15.06693
Stddev	.21116	6.3272	.000227	.009777	5.6136	.036577	.13656
%RSD	1.464229	1.603478	.0092231	.7801901	1.346201	1.504526	.9063800
#1	14.20526	388.5018	2.464649	1.261853	410.6123	2.398234	15.21675
#2	14.43039	394.1473	2.464231	1.254953	419.2103	2.424644	15.03459
#3	14.62725	401.1326	2.464285	1.242558	421.1638	2.470519	14.94943

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	147.2654	4.902996	4.934779	4.919580	5.033266	4.767148	4.892227
Stddev	1.9970	.004997	.083299	.012189	.015122	.076244	.001913
%RSD	1.356031	.1019093	1.687999	.2477724	.3004388	1.599366	.0391060
#1	145.6414	4.897980	4.846279	4.920065	5.020297	4.687893	4.894396
#2	146.6597	4.907973	4.946401	4.907156	5.029624	4.773575	4.890777
#3	149.4951	4.903036	5.011656	4.931520	5.049876	4.839975	4.891509

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCV044 Acquired: 12/29/2024 17:58:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV044 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	4.976348	4.567802	5.019727
Stddev	.064433	.070724	.065898
%RSD	1.294791	1.548310	1.312780
#1	4.912240	4.513961	4.954363
#2	4.975701	4.541545	5.018671
#3	5.041102	4.647899	5.086146

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1823.234	23537.52	1908.875	1136.741	1548.919
Stddev	4.965	256.32	29.154	10.213	3.480
%RSD	.2723017	1.088988	1.527288	.8984582	.2246837
#1	1820.544	23255.94	1938.228	1125.698	1546.018
#2	1828.963	23599.34	1908.472	1138.681	1552.778
#3	1820.194	23757.27	1879.924	1145.846	1547.962

Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB044 Acquired: 12/29/2024 18:02:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB044 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018628	-.000448	-.000178	-.002523	-.001245	.0263250	-.001299
Stddev	.0054550	.002452	.001130	.003326	.003515	.0157688	.000568
%RSD	292.8418	547.2525	634.9760	131.8334	282.3574	59.90049	43.70864
#1	.0075255	-.003104	.001005	-.005566	-.005291	.0403218	-.000667
#2	-.003358	.000030	-.001247	-.003028	.001054	.0294123	-.001465
#3	.001421	.001730	-.000291	.001027	.000503	.0092409	-.001766

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000029	.0000206	-.008948	.0012540	.0003186	.0035703	.0147125
Stddev	.000186	.0001362	.040971	.0007191	.0002791	.0065072	.0182569
%RSD	638.3659	660.0060	457.8759	57.34672	87.61118	182.2615	124.0917
#1	-.000155	-.000038	-.039217	.0011459	.0005246	-.001369	.0349454
#2	-.000118	-.000076	-.025302	.0005950	.0004304	.010944	.0097229
#3	.000185	.000176	.037674	.0020210	.0000009	.001136	-.000531

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000686	-.031948	.0001575	-.001114	.0217957	-.016227	.0020284
Stddev	.0019835	.052125	.0001893	.000369	.0396693	.004114	.0004017
%RSD	2891.343	163.1564	120.2474	33.10638	182.0050	25.35253	19.80266
#1	.0006876	.026965	-.000047	-.000822	.0675746	-.013759	.0024869
#2	-.002151	-.050729	.000327	-.000992	.0002781	-.020976	.0018594
#3	.001669	-.072079	.000193	-.001529	-.002465	-.013946	.0017388

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.706642	.0023178	.0084426	.0003582	.0010466	.0001459	-.000912
Stddev	.154996	.0022101	.0014053	.0004151	.0009821	.0001489	.000912
%RSD	21.93415	95.35250	16.64540	115.9008	93.83528	102.0865	100.0867
#1	-.556712	.0048689	.0068476	.0007121	.0007631	.0001981	-.001844
#2	-.696964	.0009852	.0094986	-.000099	.0021392	-.000022	-.000870
#3	-.866251	.0010993	.0089815	.000461	.0002374	.000262	-.000021

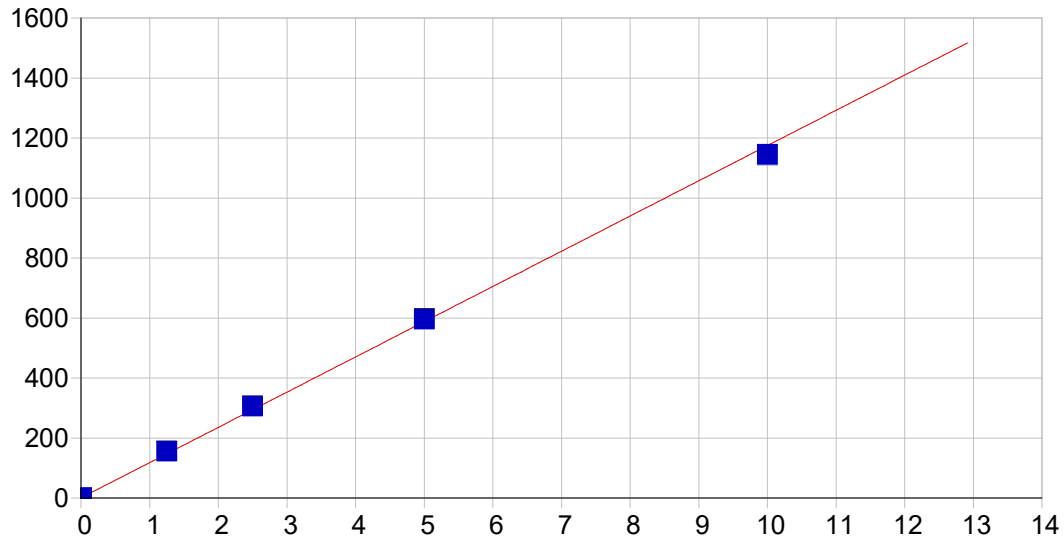
Reviewed By:mohan
On:12/31/2024
11:25:59 PM
Inst Id :P5

Sample Name: CCB044 Acquired: 12/29/2024 18:02:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v49) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB044 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0017787	.0004469	.0039576
Stddev	.0022376	.0003187	.0049237
%RSD	125.8022	71.31866	124.4102
#1	-.000803	.0004363	.0019896
#2	.002980	.0007708	.0003224
#3	.003159	.0001336	.0095610

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2042.382	26107.22	1946.258	1322.909	1848.260
Stddev	4.800	275.28	9.904	14.303	1.000
%RSD	.2350374	1.054418	.5088495	1.081190	.0540905
#1	2037.337	26070.37	1948.056	1319.783	1849.402
#2	2042.914	26399.06	1955.140	1338.517	1847.542
#3	2046.893	25852.22	1935.579	1310.428	1847.836

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



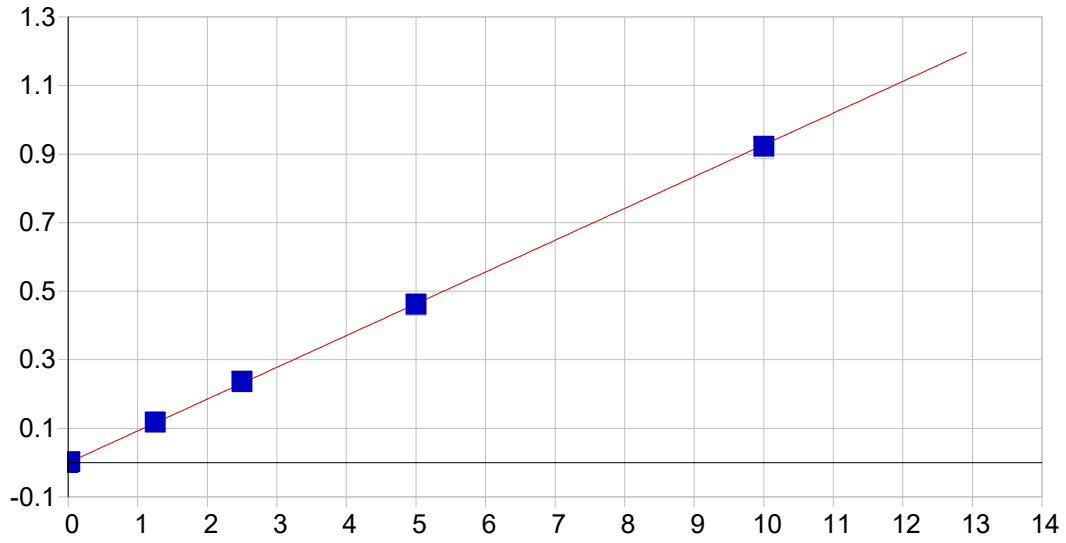
As 189.042 {478}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.487541	Re-Slope:	1.000000
A1 (Gain):	117.421288	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999548	Status:	OK.
Std Error of Est:	0.058949		
Predicted MDL:	0.006092		
Predicted MQL:	0.020308		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.48771	.366	1
S1	.01000	.00763	-.002	-23.7	1.3820	.511	1
S2	1.2500	1.3236	.074	5.89	155.29	.349	1
S3	2.5000	2.6043	.104	4.17	305.05	.377	1
S4	5.0000	5.0772	.077	1.54	594.19	.796	1
S5	10.000	9.7473	-.253	-2.53	1140.1	.765	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



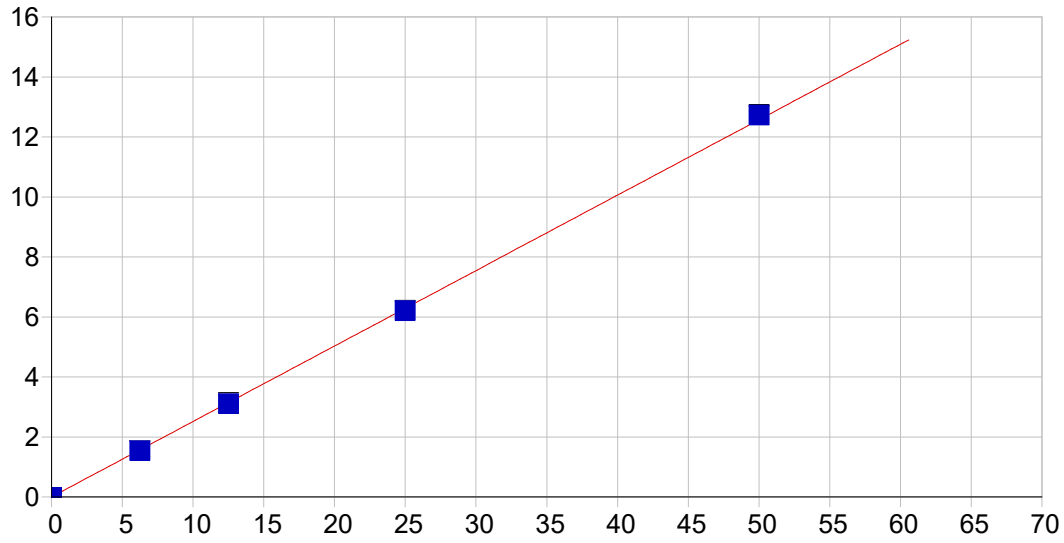
Tl 190.856 {477}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000178	Re-Slope:	1.000000
A1 (Gain):	0.092687	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.003364		
Predicted MQL:	0.011214		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00018	.000	1
S1	.02500	.02740	.002	9.61	.00228	.000	1
S2	1.2500	1.2724	.022	1.79	.11676	.000	1
S3	2.5000	2.5488	.049	1.95	.23407	.002	1
S4	5.0000	4.9764	-.024	-.472	.45709	.002	1
S5	10.000	9.9501	-.050	-.499	.91411	.001	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



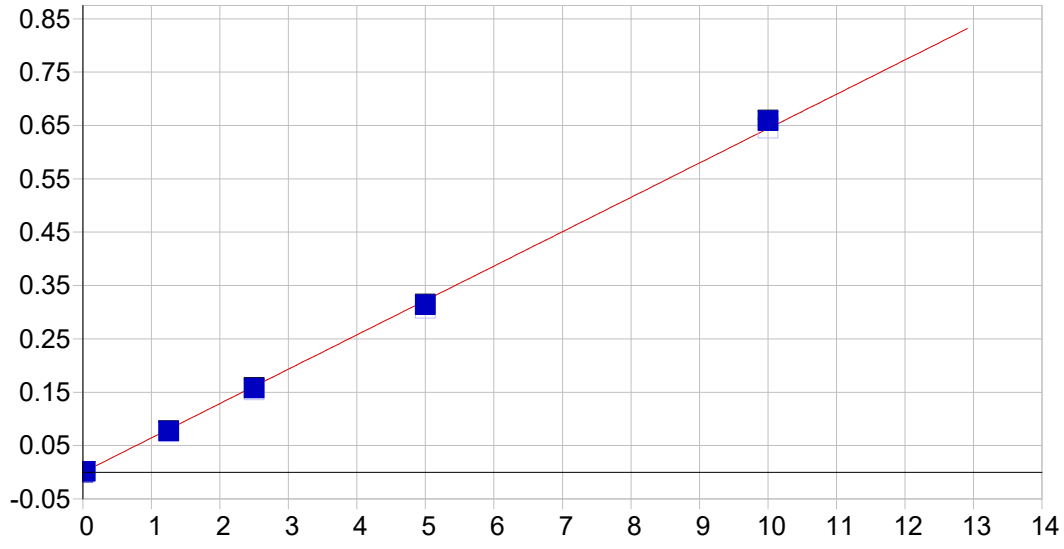
Pb 220.353 {453}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000232	Re-Slope:	1.000000
A1 (Gain):	0.251458	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000123		
Predicted MDL:	0.002610		
Predicted MQL:	0.008701		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00023	.000	1
S1	.01000	.01046	.000	4.55	.00285	.000	1
S2	6.2500	6.1203	-.130	-2.08	1.5375	.002	1
S3	12.500	12.360	-.140	-1.12	3.1049	.033	1
S4	25.000	24.669	-.331	-1.32	6.1967	.019	1
S5	50.000	50.600	.600	1.20	12.710	.018	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



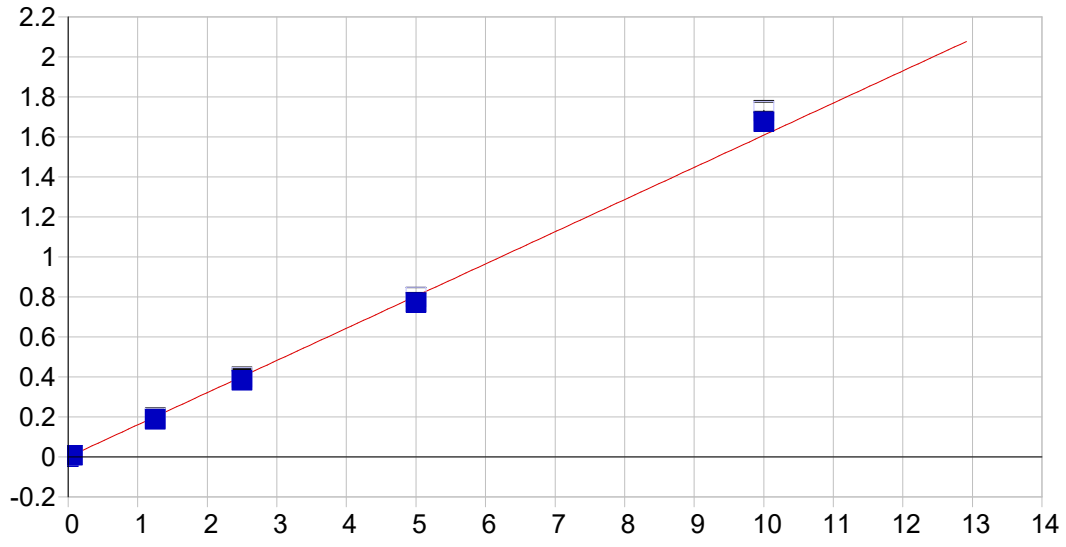
Se 196.090 {472}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000074	Re-Slope:	1.000000
A1 (Gain):	0.064417	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999649	Status:	OK.
Std Error of Est:	0.000052		
Predicted MDL:	0.006553		
Predicted MQL:	0.021842		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00007	.000	1
S1	.03500	.02902	-.006	-17.1	.00179	.000	1
S2	1.2500	1.1970	-.053	-4.24	.07522	.001	1
S3	2.5000	2.4479	-.052	-2.08	.15399	.001	1
S4	5.0000	4.8798	-.120	-2.40	.30702	.001	1
S5	10.000	10.231	.231	2.31	.64451	.001	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



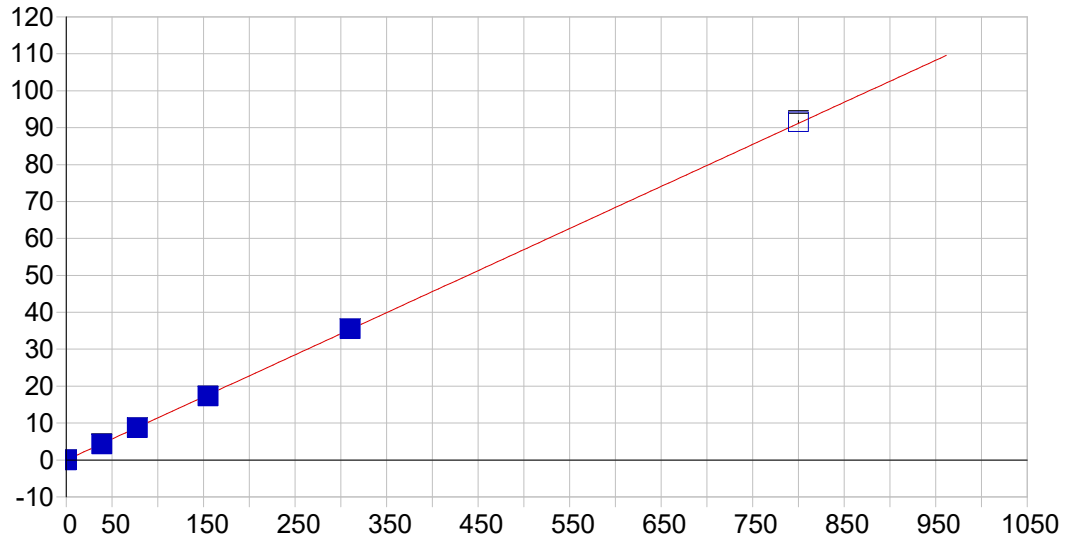
Sb 206.833 {463}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000312	Re-Slope:	1.000000
A1 (Gain):	0.160865	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999083	Status:	OK.
Std Error of Est:	0.000293		
Predicted MDL:	0.003552		
Predicted MQL:	0.011838		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00031	.000	1
S1	.06000	.05564	-.004	-7.27	.00864	.001	1
S2	1.2500	1.1671	-.083	-6.63	.19415	.000	1
S3	2.5000	2.3809	-.119	-4.76	.39614	.004	1
S4	5.0000	4.7946	-.205	-4.11	.79786	.001	1
S5	10.000	10.412	.412	4.12	1.7283	.004	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



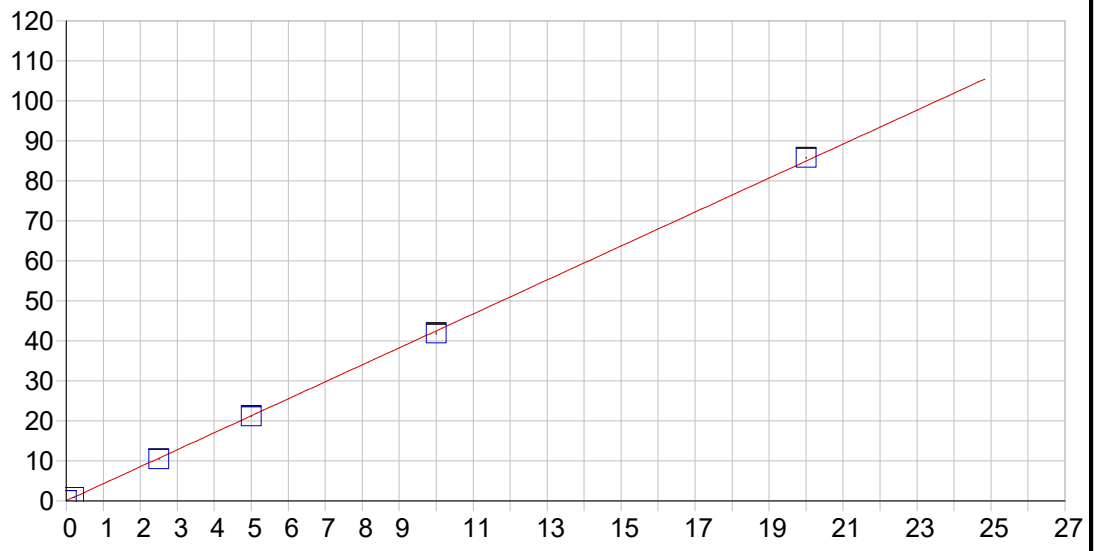
Al 396.152 { 85}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000875	Re-Slope:	1.000000
A1 (Gain):	0.113968	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.000702		
Predicted MDL:	0.024766		
Predicted MQL:	0.082552		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00088	.004	1
S1	.20000	.19692	-.003	-1.54	.02336	.004	1
S2	38.750	37.889	-.861	-2.22	4.3239	.022	1
S3	77.500	76.718	-.782	-1.01	8.7538	.052	1
S4	155.00	151.41	-3.59	-2.32	17.276	.046	1
S5	310.00	311.86	1.86	.599	35.581	.036	1
S6	800.00	803.38	3.38	.423	91.561	.340	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



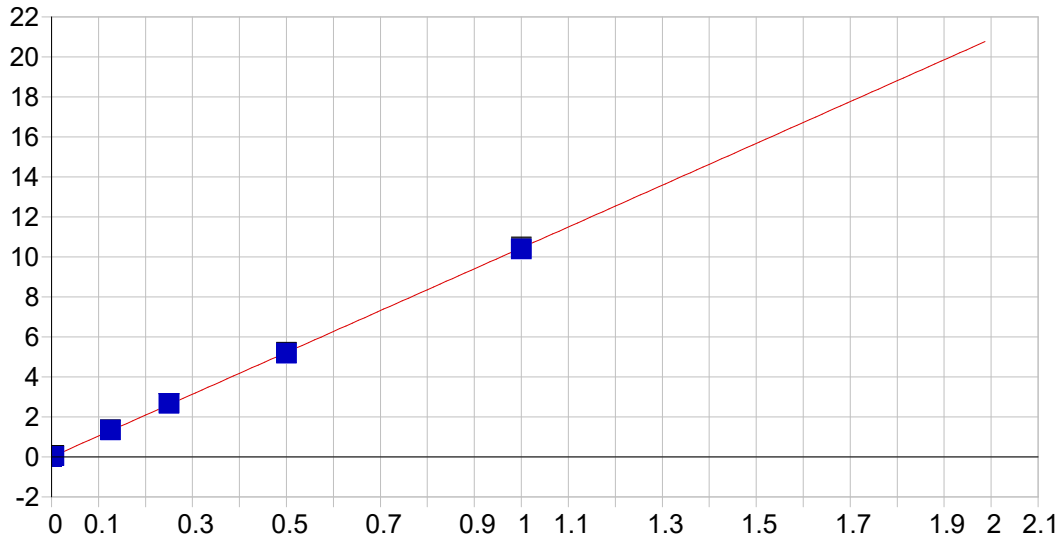
Ba 493.409 { 68}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.053605	Re-Slope:	1.000000
A1 (Gain):	4.245252	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.005162		
Predicted MDL:	0.001435		
Predicted MQL:	0.004784		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.05361	.002	1
S1	.20000	.20272	.003	1.36	.91421	.000	1
S2	2.5000	2.4567	-.043	-1.73	10.483	.032	1
S3	5.0000	4.9861	-.014	-.278	21.221	.148	1
S4	10.000	9.8546	-.145	-1.45	41.889	.180	1
S5	20.000	20.200	.200	.999	85.807	.127	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



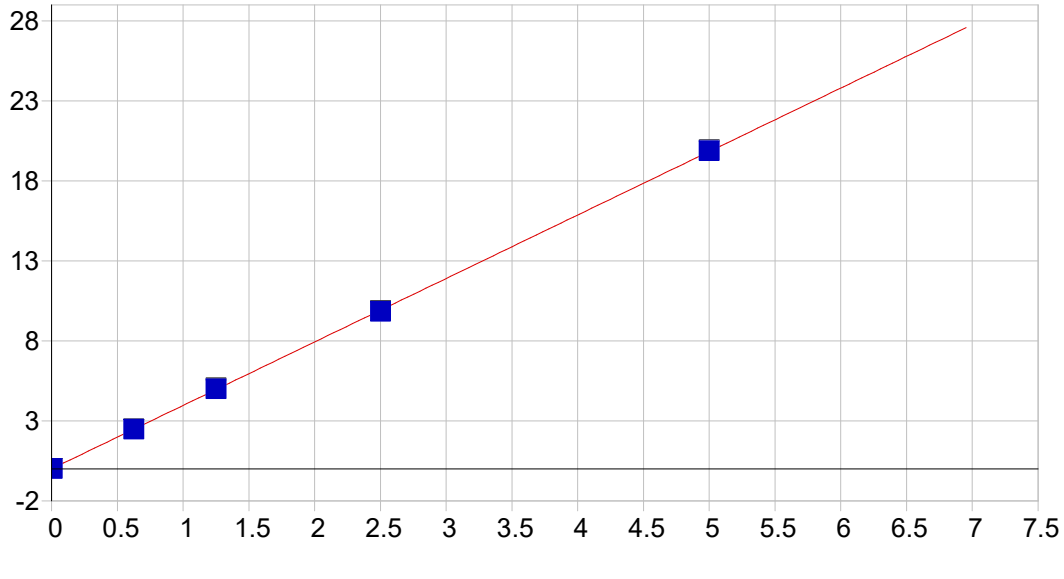
Be 234.861 {144}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000173	Re-Slope:	1.000000
A1 (Gain):	10.450081	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000477		
Predicted MDL:	0.000141		
Predicted MQL:	0.000469		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00018	.001	1
S1	.00500	.00532	.000	6.46	.05540	.002	1
S2	.12500	.12825	.003	2.60	1.3341	.006	1
S3	.25000	.25540	.005	2.16	2.6568	.005	1
S4	.50000	.49601	-.004	-.799	5.1591	.043	1
S5	1.0000	.99502	-.005	-.498	10.350	.101	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



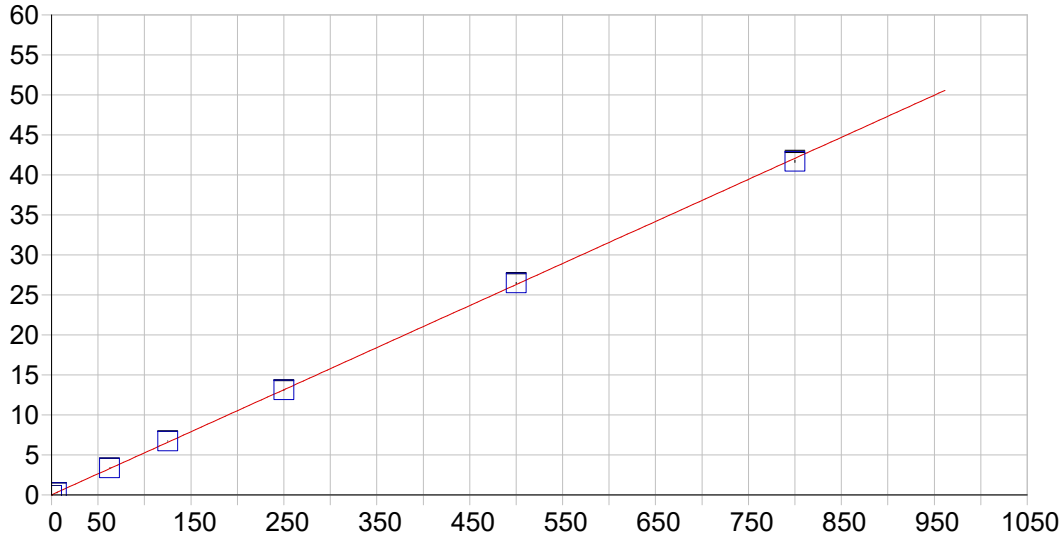
Cd 214.438 {457}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000151	Re-Slope:	1.000000
A1 (Gain):	3.967115	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000162		
Predicted MDL:	0.000112		
Predicted MQL:	0.000372		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00015	.000	1
S1	.00500	.00494	-.000	-1.24	.01982	.000	1
S2	.62500	.62359	-.001	-.226	2.4778	.003	1
S3	1.2500	1.2579	.008	.633	4.9981	.056	1
S4	2.5000	2.4813	-.019	-.747	9.8590	.027	1
S5	5.0000	5.0122	.012	.245	19.915	.032	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



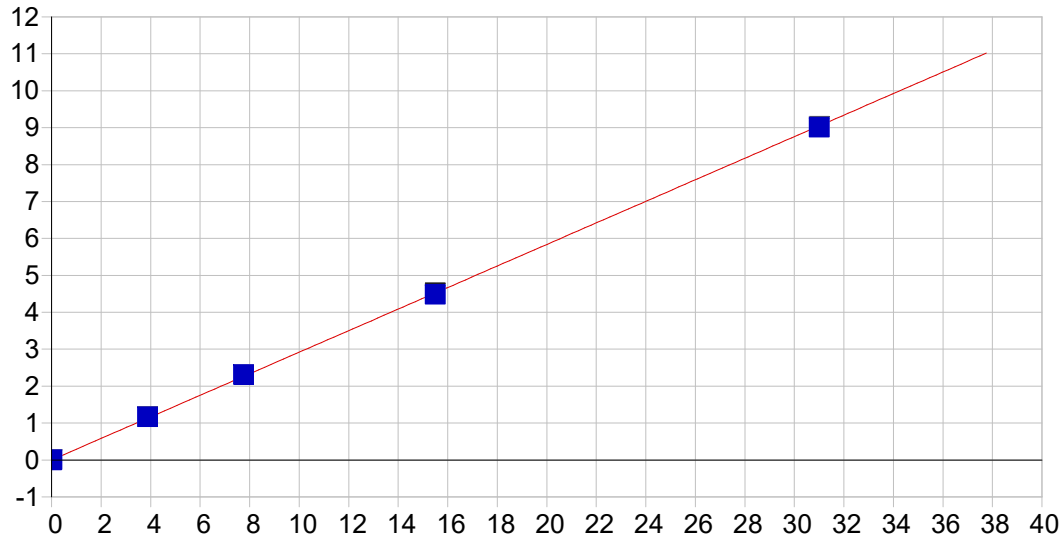
Ca 373.690 { 90}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005249	Re-Slope:	1.000000
A1 (Gain):	0.052583	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.001892		
Predicted MDL:	0.035846		
Predicted MQL:	0.119486		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00025	-.000	.000	.00524	.000	1
S1	5.0000	5.0615	.061	1.23	.27139	.003	1
S2	62.500	63.753	1.25	2.01	3.3576	.009	1
S3	125.00	127.86	2.86	2.29	6.7287	.027	1
S4	250.00	249.14	-.856	-.342	13.106	.057	1
S5	500.00	503.75	3.75	.751	26.494	.078	1
S6	800.00	792.92	-7.08	-.885	41.699	.136	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



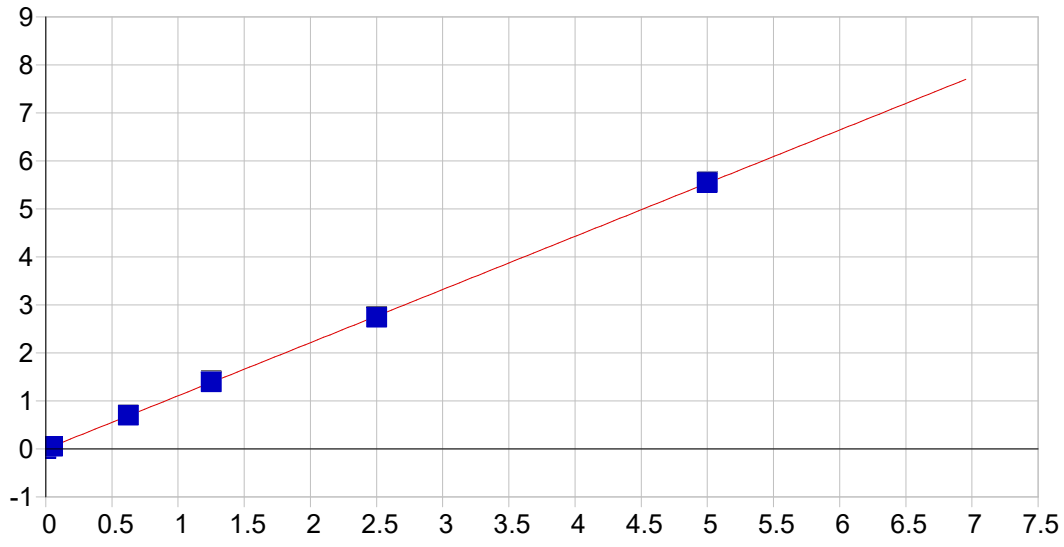
Cr 267.716 {126}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000123	Re-Slope:	1.000000
A1 (Gain):	0.291879	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999926	Status:	OK.
Std Error of Est:	0.000105		
Predicted MDL:	0.000838		
Predicted MQL:	0.002792		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00012	.000	1
S1	.01000	.01079	.001	7.89	.00303	.000	1
S2	3.8750	3.9911	.116	3.00	1.1657	.001	1
S3	7.7500	7.9095	.159	2.06	2.3102	.002	1
S4	15.500	15.363	-.137	-.887	4.4874	.036	1
S5	31.000	30.861	-.139	-.448	9.0146	.021	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



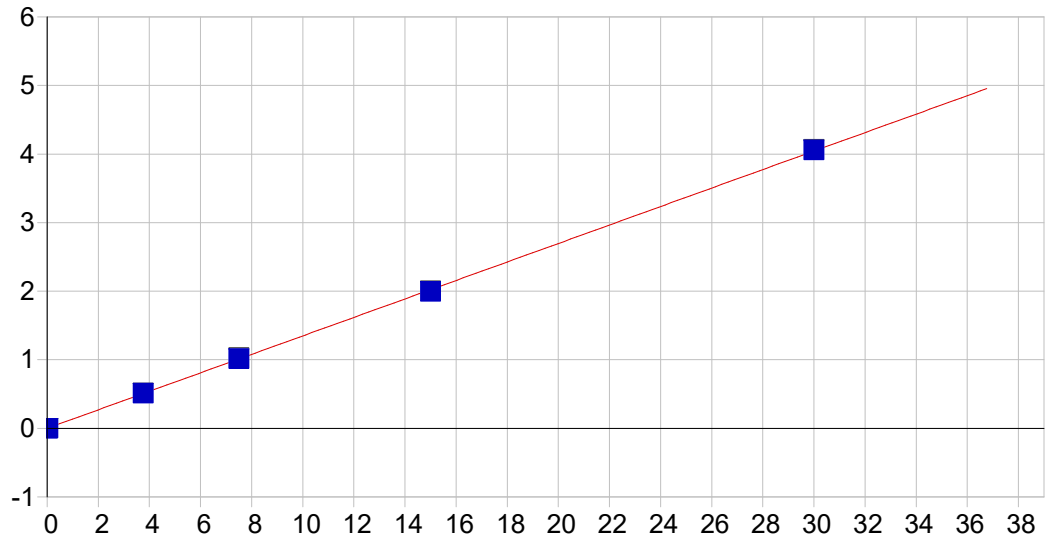
Co 228.616 {448}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000442	Re-Slope:	1.000000
A1 (Gain):	1.107243	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000202		
Predicted MDL:	0.000431		
Predicted MQL:	0.001438		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00044	.000	1
S1	.05000	.05071	.001	1.42	.05588	.001	1
S2	.62500	.63052	.006	.883	.69992	.001	1
S3	1.2500	1.2609	.011	.869	1.4001	.016	1
S4	2.5000	2.4738	-.026	-1.05	2.7476	.008	1
S5	5.0000	5.0091	.009	.181	5.5637	.012	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



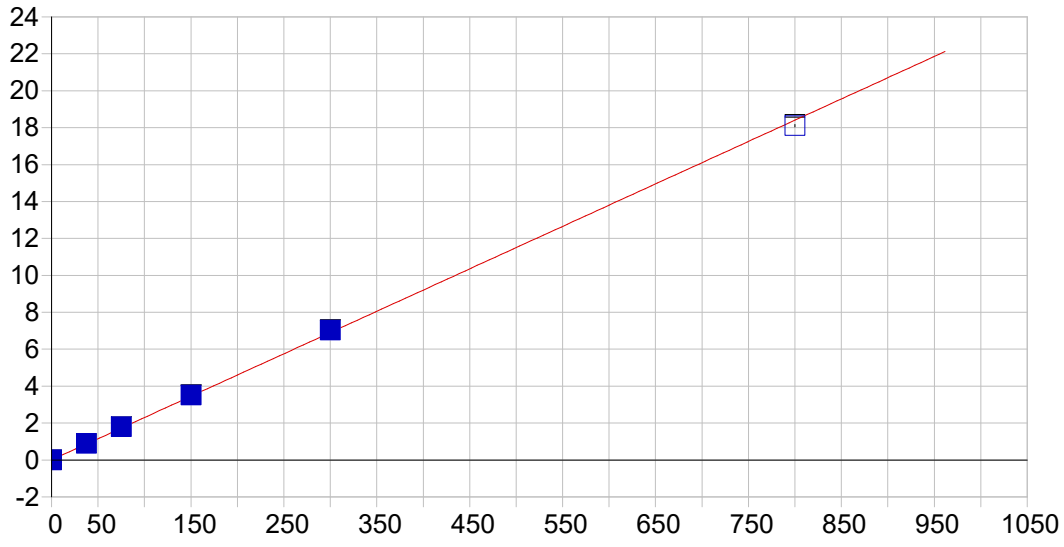
Cu 324.754 {104}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000698	Re-Slope:	1.000000
A1 (Gain):	0.134754	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000064		
Predicted MDL:	0.009928		
Predicted MQL:	0.033093		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00070	.001	1
S1	.02500	.03233	.007	29.3	.00505	.001	1
S2	3.7500	3.7869	.037	.984	.51094	.001	1
S3	7.5000	7.5440	.044	.586	1.0172	.006	1
S4	15.000	14.796	-.204	-1.36	1.9943	.007	1
S5	30.000	30.116	.116	.387	4.0585	.009	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



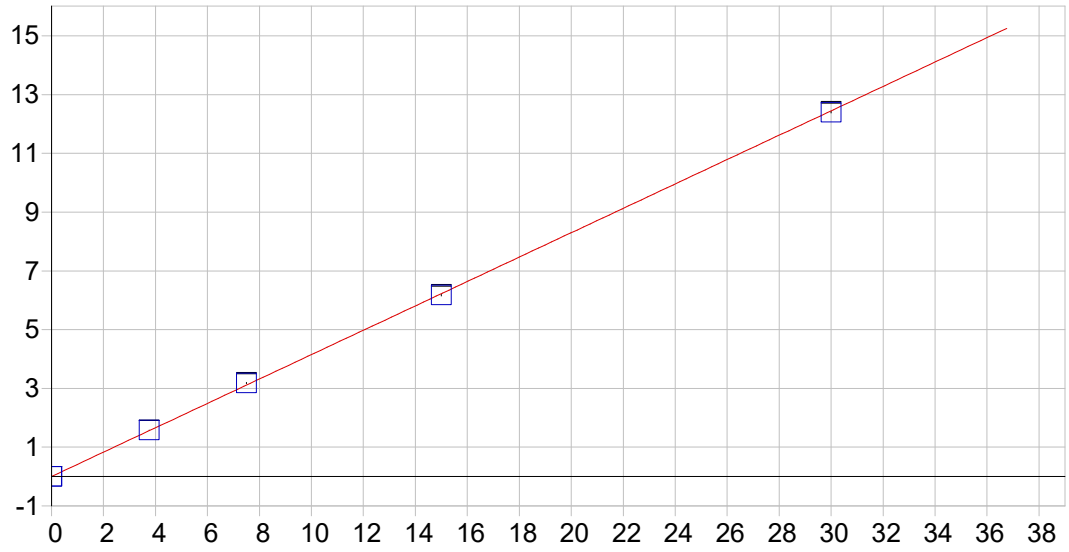
Fe 259.837 {130}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000335	Re-Slope:	1.000000
A1 (Gain):	0.023007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999784	Status:	OK.
Std Error of Est:	0.000209		
Predicted MDL:	0.030909		
Predicted MQL:	0.103030		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00033	.001	1
S1	.10000	.07923	-.021	-20.8	.00216	.001	1
S2	37.500	38.915	1.41	3.77	.89583	.003	1
S3	75.000	78.396	3.40	4.53	1.8044	.011	1
S4	150.00	152.69	2.69	1.79	3.5140	.010	1
S5	300.00	305.77	5.77	1.92	7.0366	.023	1
S6	800.00	786.75	-13.2	-1.66	18.101	.066	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



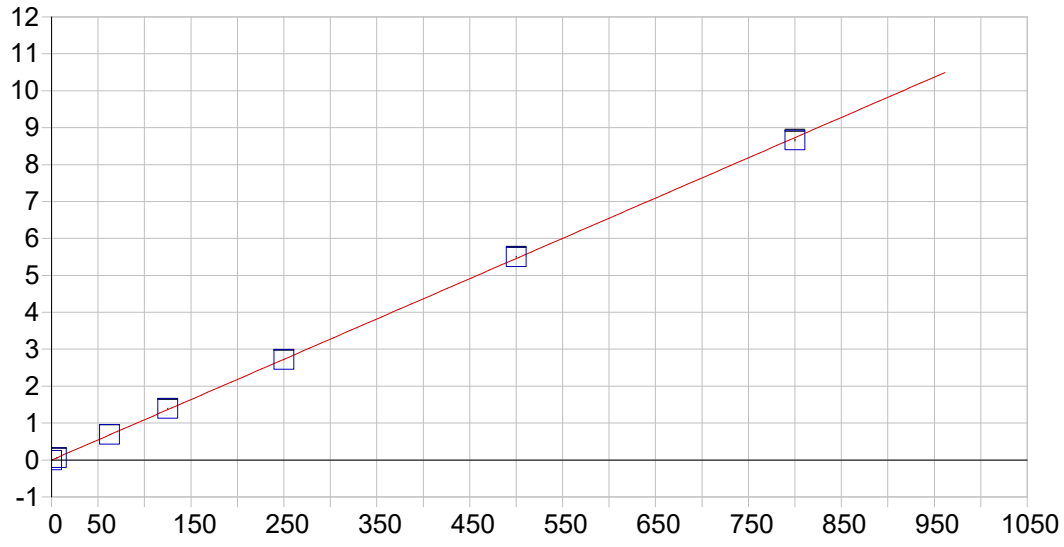
Mn 257.610 {131}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000007	Re-Slope:	1.000000
A1 (Gain):	0.414990	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999945	Status:	OK.
Std Error of Est:	0.000155		
Predicted MDL:	0.001440		
Predicted MQL:	0.004801		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00001	.001	1
S1	.01500	.01584	.001	5.58	.00658	.000	1
S2	3.7500	3.8023	.052	1.40	1.5779	.005	1
S3	7.5000	7.6753	.175	2.34	3.1852	.022	1
S4	15.000	14.886	-.114	-.757	6.1778	.027	1
S5	30.000	29.885	-.115	-.383	12.402	.029	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



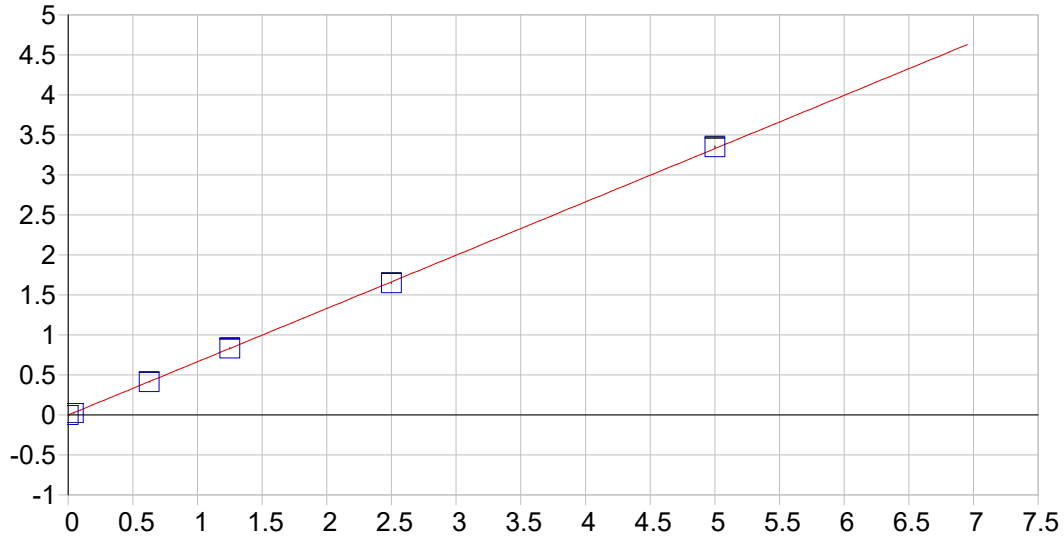
Mg 279.079 {121}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001169	Re-Slope:	1.000000
A1 (Gain):	0.010916	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000352		
Predicted MDL:	0.082729		
Predicted MQL:	0.275763		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00030	-.000	.000	-.00117	.001	1
S1	5.0000	5.1700	.170	3.40	.05527	.000	1
S2	62.500	63.240	.740	1.18	.68914	.000	1
S3	125.00	127.33	2.33	1.87	1.3888	.012	1
S4	250.00	248.82	-1.18	-.473	2.7148	.010	1
S5	500.00	504.23	4.23	.846	5.5028	.016	1
S6	800.00	793.71	-6.29	-.786	8.6628	.025	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



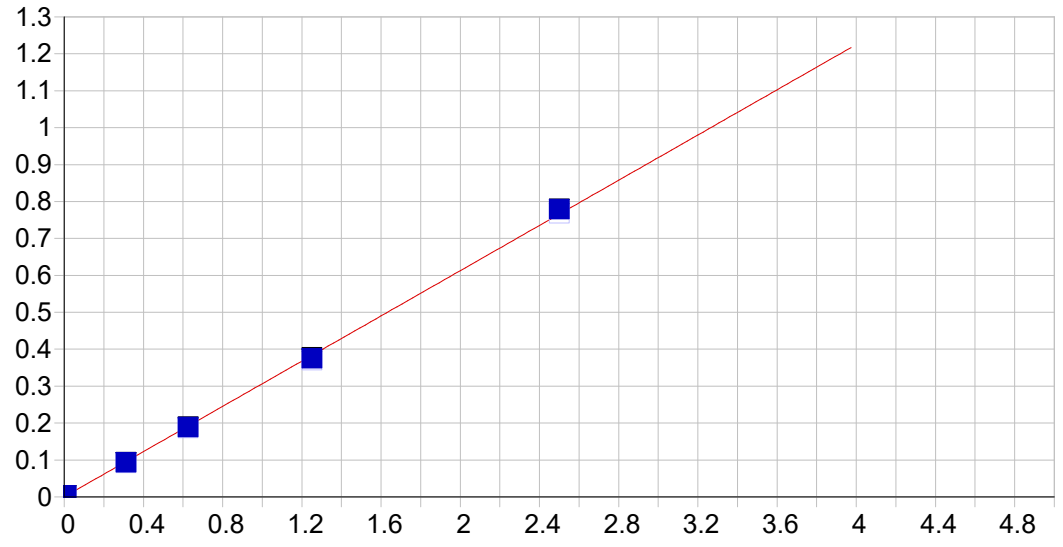
Ni 231.604 {446}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001016	Re-Slope:	1.000000
A1 (Gain):	0.665882	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000115		
Predicted MDL:	0.000743		
Predicted MQL:	0.002475		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00102	.000	1
S1	.04000	.03859	-.001	-3.54	.02468	.001	1
S2	.62500	.61828	-.007	-1.07	.41069	.000	1
S3	1.2500	1.2512	.001	.094	.83212	.009	1
S4	2.5000	2.4775	-.023	-.901	1.6487	.003	1
S5	5.0000	5.0295	.029	.590	3.3480	.011	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



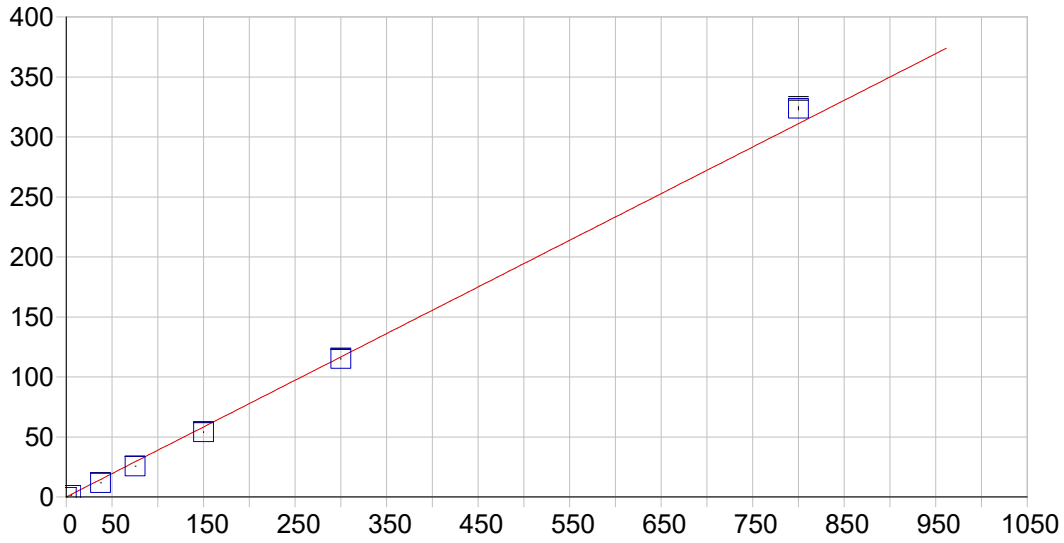
Ag 328.068 {103}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000378	Re-Slope:	1.000000
A1 (Gain):	0.306197	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999823	Status:	OK.
Std Error of Est:	0.000048		
Predicted MDL:	0.001408		
Predicted MQL:	0.004694		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00038	.000	1
S1	.01000	.01034	.000	3.36	.00354	.000	1
S2	.31250	.30442	-.008	-2.58	.09221	.000	1
S3	.62500	.61524	-.010	-1.56	.18601	.001	1
S4	1.2500	1.2247	-.025	-2.02	.36987	.003	1
S5	2.5000	2.5428	.043	1.71	.76795	.001	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



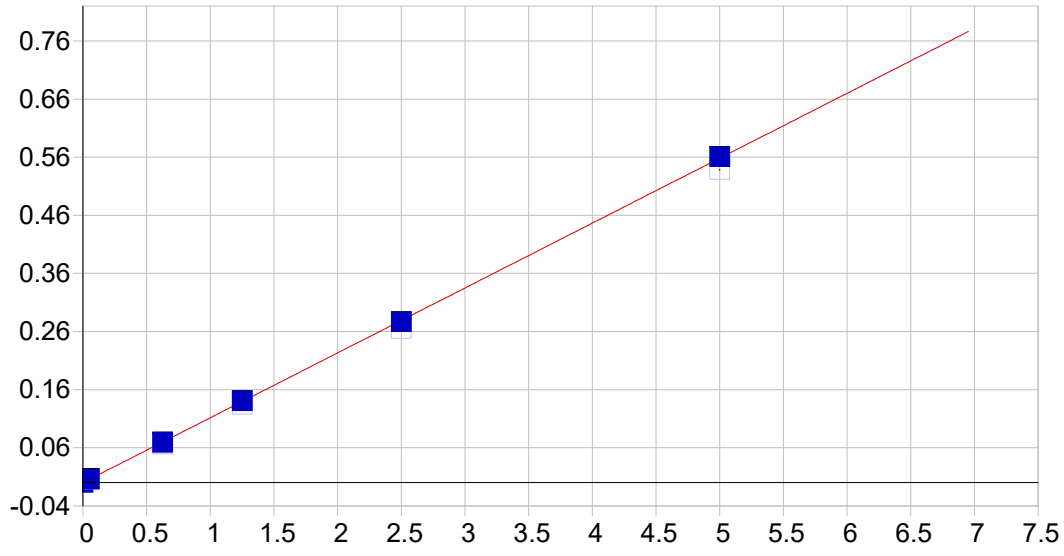
Na 818.326 { 41}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006771	Re-Slope:	1.000000
A1 (Gain):	0.388794	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998069	Status:	OK.
Std Error of Est:	0.074804		
Predicted MDL:	0.024427		
Predicted MQL:	0.081424		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00338	.003	.000	.00809	.008	1
S1	5.0000	3.4397	-1.56	-31.2	1.3441	.018	1
S2	37.500	30.223	-7.28	-19.4	11.757	.037	1
S3	75.000	65.587	-9.41	-12.6	25.506	.035	1
S4	150.00	138.97	-11.0	-7.35	54.039	.366	1
S5	300.00	296.33	-3.67	-1.22	115.22	.528	1
S6	800.00	832.94	32.9	4.12	323.85	1.50	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



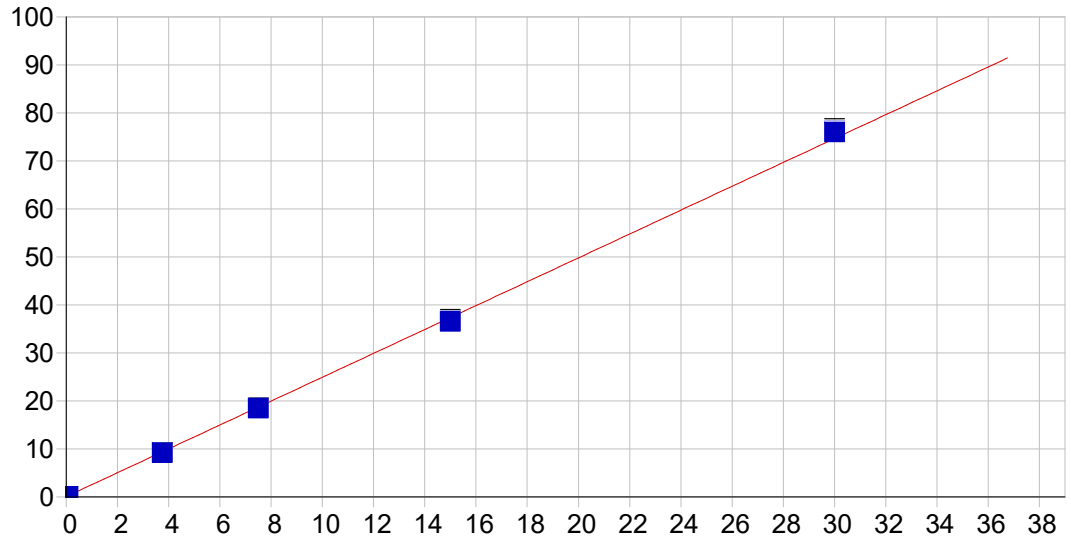
V 292.402 {115}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000002	Re-Slope:	1.000000
A1 (Gain):	0.111652	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999976	Status:	OK.
Std Error of Est:	0.000020		
Predicted MDL:	0.009828		
Predicted MQL:	0.032760		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00000	.000	1
S1	.05000	.04957	-.000	-.863	.00552	.002	1
S2	.62500	.61975	-.005	-.839	.06640	.001	1
S3	1.2500	1.2573	.007	.585	.13479	.001	1
S4	2.5000	2.4760	-.024	-.962	.26526	.001	1
S5	5.0000	5.0224	.022	.449	.53839	.001	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



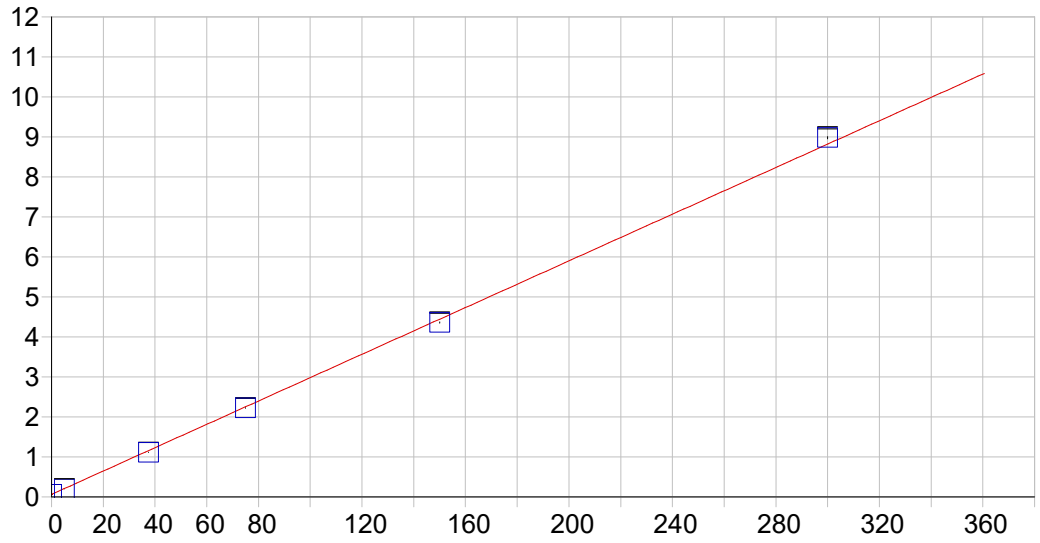
Zn 213.856 {158}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.070515	Re-Slope:	1.000000
A1 (Gain):	2.486116	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999817	Status:	OK.
Std Error of Est:	0.003397		
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	.07052	.000	1
S1	.06000	.05901	-.001	-1.65	.21769	.003	1
S2	3.7500	3.6616	-.088	-2.36	9.2194	.074	1
S3	7.5000	7.3918	-.108	-1.44	18.539	.042	1
S4	15.000	14.663	-.337	-2.25	36.707	.266	1
S5	30.000	30.535	.535	1.78	76.348	.417	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



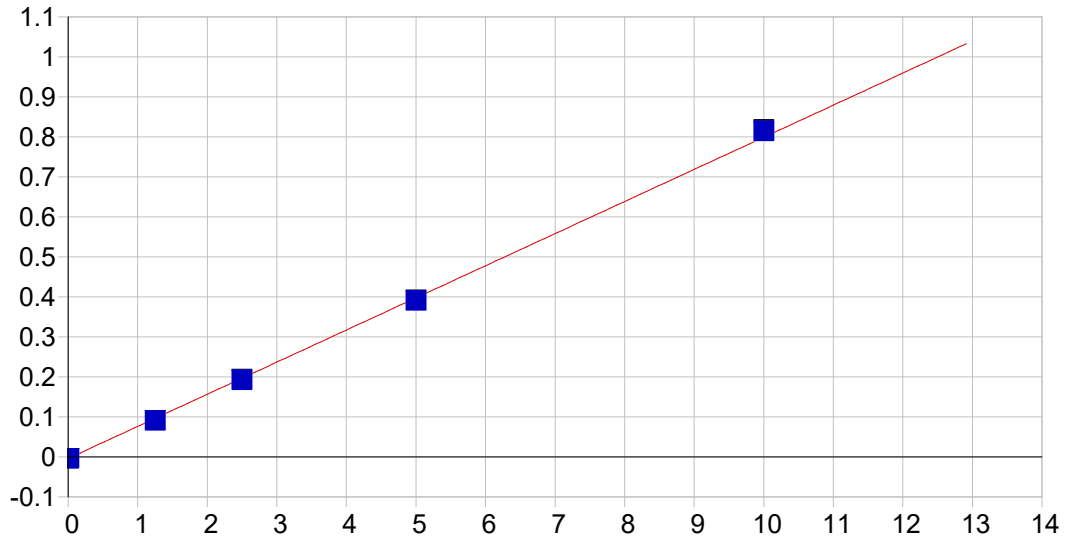
K 769.896 { 44}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.063542	Re-Slope:	1.000000
A1 (Gain):	0.029187	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999790	Status:	OK.
Std Error of Est:	0.001234		
Predicted MDL:	0.139000		
Predicted MQL:	0.463334		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00053	.001	.000	.06356	.003	1
S1	5.0000	4.7361	-.264	-5.28	.20177	.004	1
S2	37.500	36.018	-1.48	-3.95	1.1148	.003	1
S3	75.000	73.917	-1.08	-1.44	2.2209	.007	1
S4	150.00	147.30	-2.70	-1.80	4.3628	.017	1
S5	300.00	305.53	5.53	1.84	8.9808	.025	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



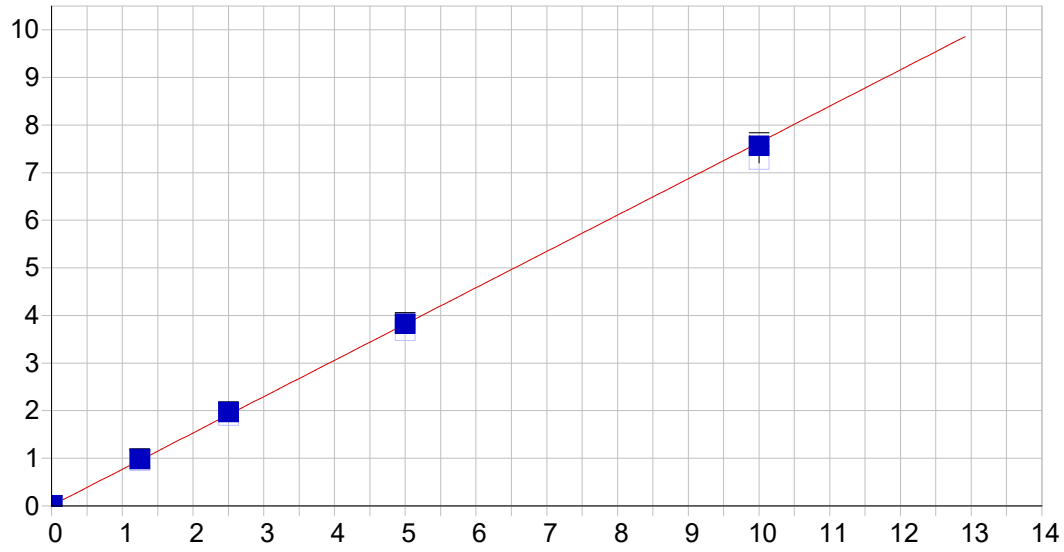
P 177.495 {490}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003951	Re-Slope:	1.000000
A1 (Gain):	0.080303	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999733	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.003405		
Predicted MQL:	0.011350		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00395	.000	1
S1	.01000	.00769	-.002	-23.1	-.00333	.000	1
S2	1.2500	1.1868	-.063	-5.05	.09121	.000	1
S3	2.5000	2.4484	-.052	-2.07	.19237	.002	1
S4	5.0000	4.9194	-.081	-1.61	.39050	.001	1
S5	10.000	10.198	.198	1.98	.81379	.003	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



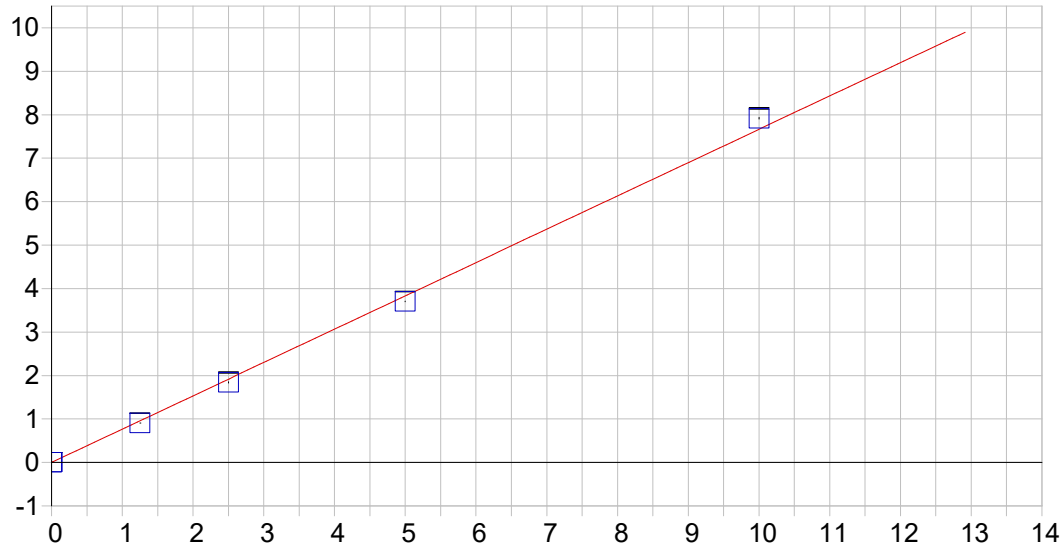
B 249.678 {135}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006534	Re-Slope:	1.000000
A1 (Gain):	0.762832	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999296	Status:	OK.
Std Error of Est:	0.000462		
Predicted MDL:	0.002176		
Predicted MQL:	0.007255		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00654	.002	1
S1	.01000	-.00434	-.014	-143.	.00318	.001	1
S2	1.2500	1.2817	.032	2.54	.94803	.001	1
S3	2.5000	2.5736	.074	2.94	1.8972	.006	1
S4	5.0000	5.0044	.004	.089	3.6790	.025	1
S5	10.000	9.9050	-.095	-.950	7.2723	.067	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



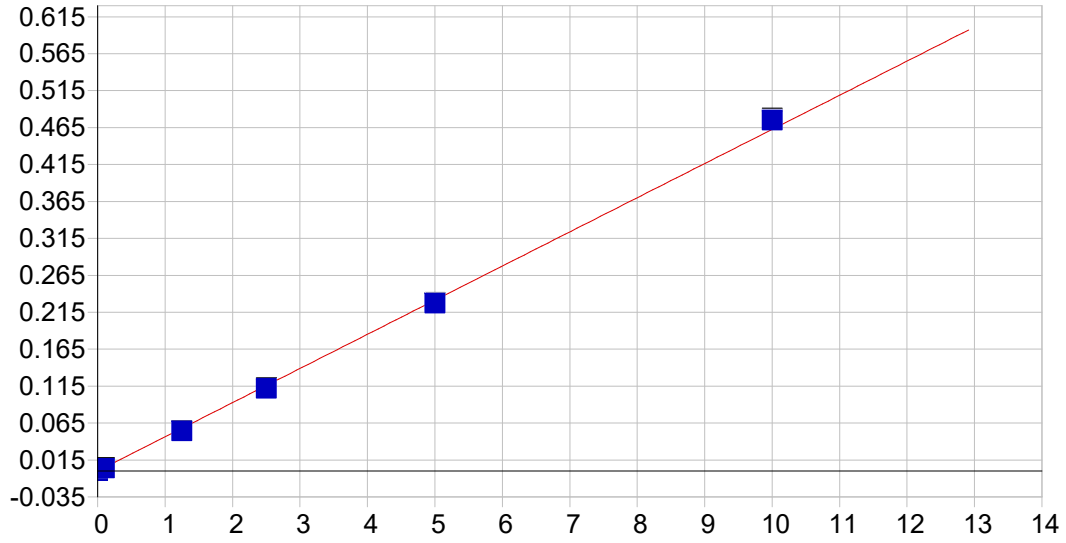
Mo 202.030 {467}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000025	Re-Slope:	1.000000
A1 (Gain):	0.766525	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999370	Status:	OK.
Std Error of Est:	0.000456		
Predicted MDL:	0.000537		
Predicted MQL:	0.001789		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00002	.000	1
S1	.01000	.00944	-.001	-5.57	.00721	.000	1
S2	1.2500	1.1830	-.067	-5.36	.90680	.004	1
S3	2.5000	2.4057	-.094	-3.77	1.8440	.014	1
S4	5.0000	4.8325	-.168	-3.35	3.7042	.008	1
S5	10.000	10.329	.329	3.29	7.9177	.019	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



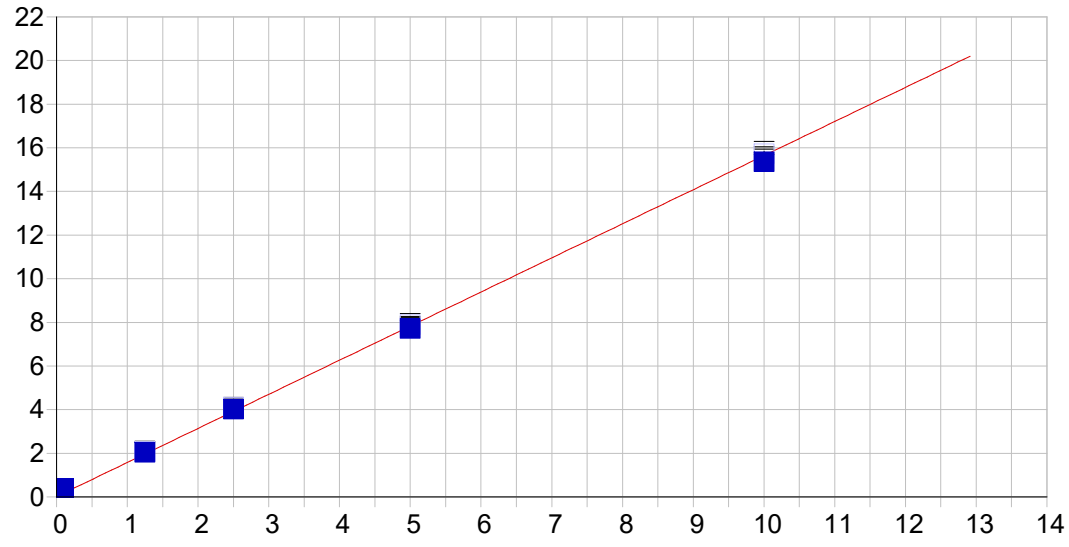
S 182.034 {485}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000099	Re-Slope:	1.000000
A1 (Gain):	0.046242	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999510	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.005146		
Predicted MQL:	0.017152		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00010	.000	1
S1	.10000	.08812	-.012	-11.9	.00417	.000	1
S2	1.2500	1.1663	-.084	-6.69	.05422	.000	1
S3	2.5000	2.4155	-.084	-3.38	.11217	.001	1
S4	5.0000	4.9120	-.088	-1.76	.22798	.001	1
S5	10.000	10.268	.268	2.68	.47640	.002	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



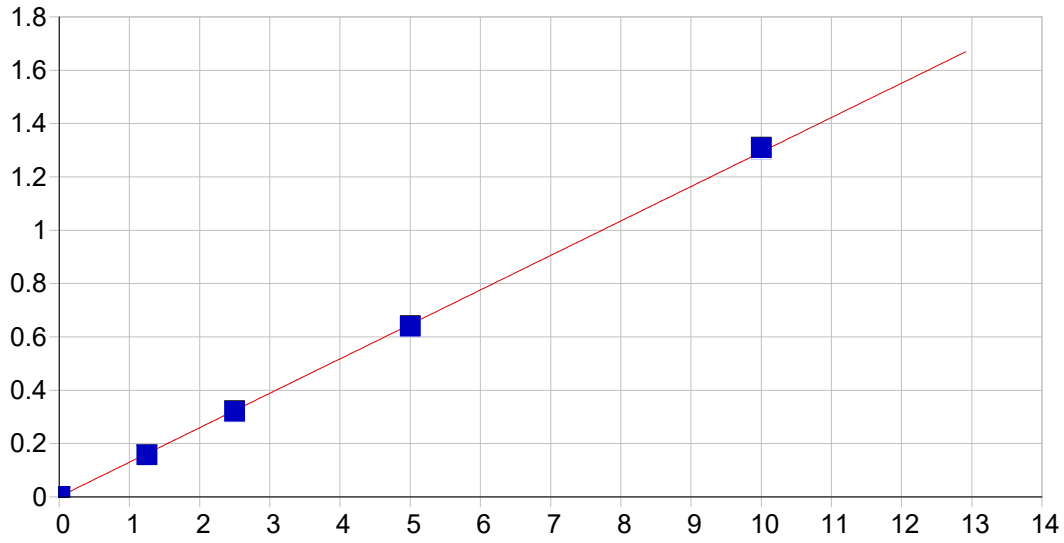
Si 251.611 {134}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.013342	Re-Slope:	1.000000
A1 (Gain):	1.563030	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.994404	Status:	OK.
Std Error of Est:	0.009024		
Predicted MDL:	0.001097		
Predicted MQL:	0.003655		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.01311	.003	1
S1	.10000	.24651	.147	147.	.40085	.003	1
S2	1.2500	1.2974	.047	3.79	2.0855	.005	1
S3	2.5000	2.5611	.061	2.44	4.1051	.007	1
S4	5.0000	4.9262	-.074	-1.48	7.8905	.066	1
S5	10.000	9.8201	-.180	-1.80	15.717	.129	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



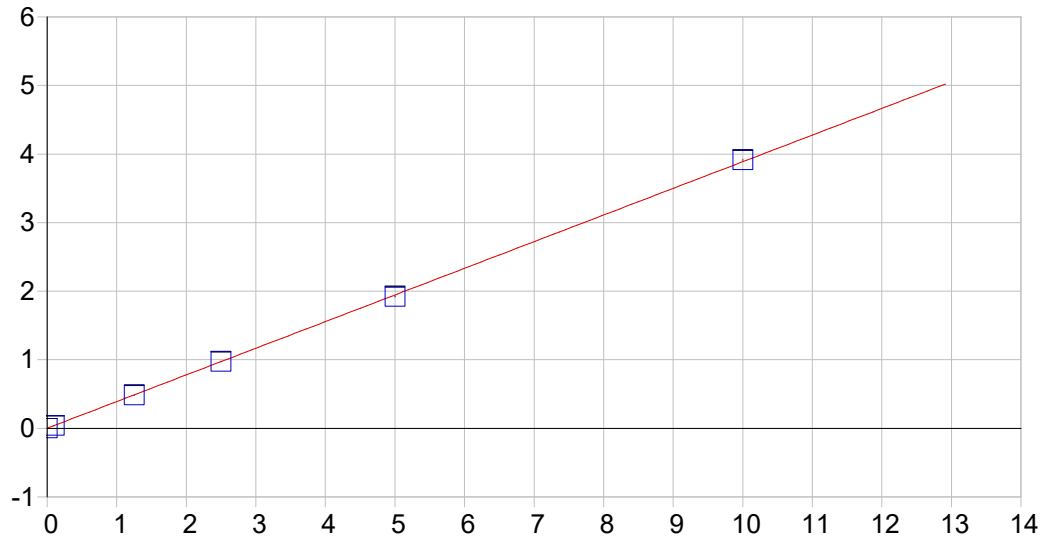
Sn 189.989 {478}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000797	Re-Slope:	1.000000
A1 (Gain):	0.129221	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999898	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.001670		
Predicted MQL:	0.005568		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00080	.000	1
S1	.00700	.00560	-.001	-20.1	.00148	.000	1
S2	1.2500	1.2142	-.036	-2.86	.15689	.000	1
S3	2.5000	2.4716	-.028	-1.14	.31856	.003	1
S4	5.0000	4.9428	-.057	-1.14	.63628	.002	1
S5	10.000	10.123	.123	1.23	1.3024	.003	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



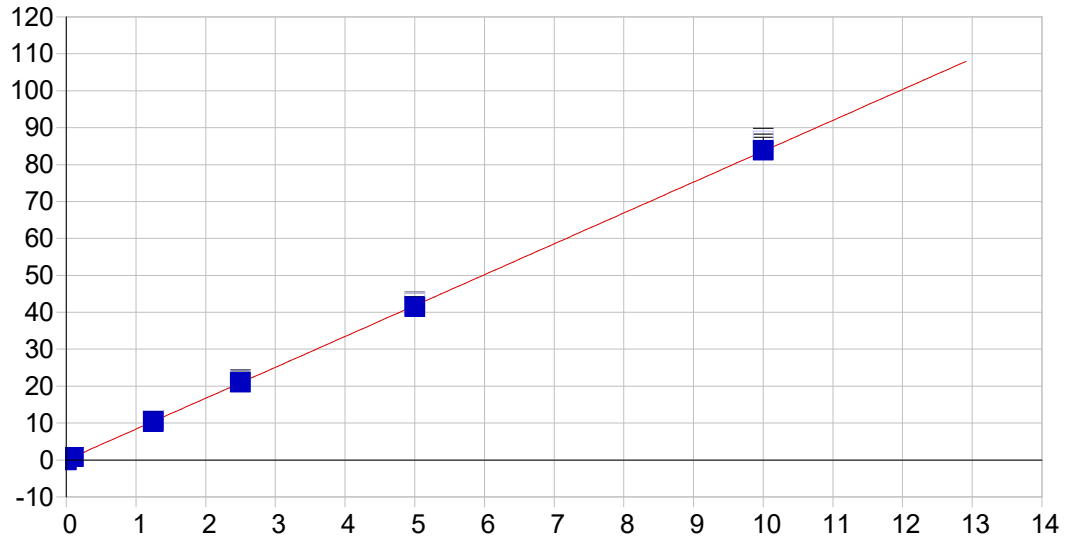
Ti 336.121 {100}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002097	Re-Slope:	1.000000
A1 (Gain):	0.388603	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000173		
Predicted MDL:	0.004024		
Predicted MQL:	0.013415		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00210	.002	1
S1	.10000	.09714	-.003	-2.86	.03985	.002	1
S2	1.2500	1.2373	-.013	-1.02	.48291	.004	1
S3	2.5000	2.5026	.003	.103	.97461	.005	1
S4	5.0000	4.9439	-.056	-1.12	1.9233	.008	1
S5	10.000	10.069	.069	.691	3.9150	.005	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



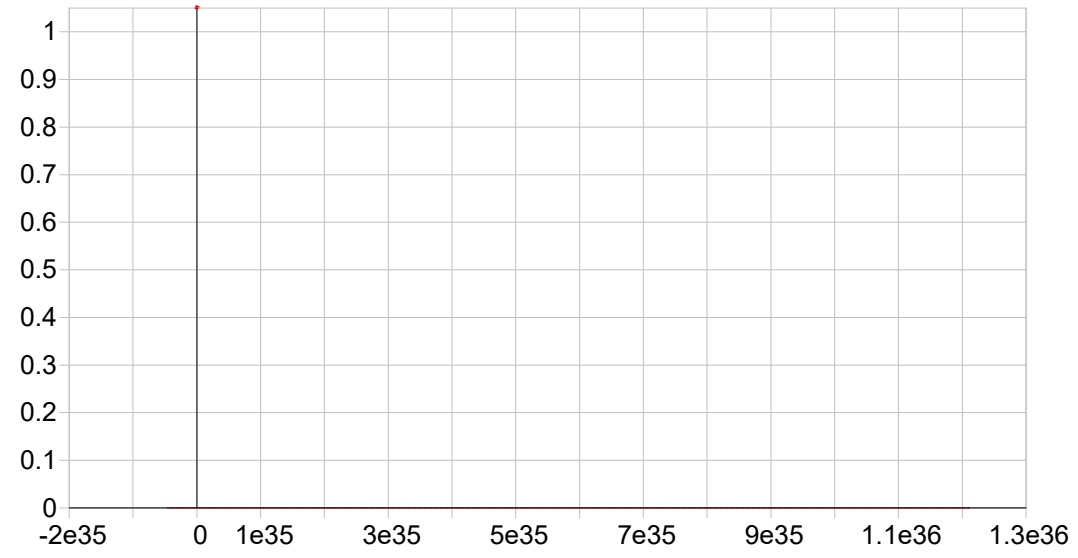
Sr 407.771 { 83}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001176	Re-Slope:	1.000000
A1 (Gain):	8.362116	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.002942		
Predicted MDL:	0.000258		
Predicted MQL:	0.000859		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00120	.002	1
S1	.10000	.10392	.004	3.92	.86866	.004	1
S2	1.2500	1.2398	-.010	-.818	10.680	.048	1
S3	2.5000	2.5160	.016	.639	21.665	.084	1
S4	5.0000	4.9568	-.043	-.864	42.702	.098	1
S5	10.000	10.034	.034	.336	86.410	.786	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

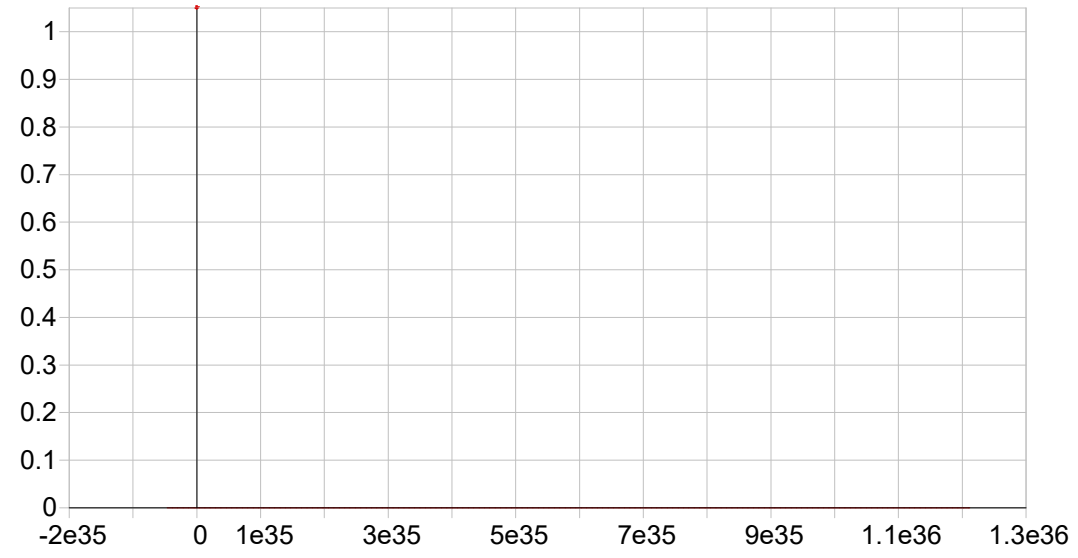


Y 224.306 {450}*

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}*

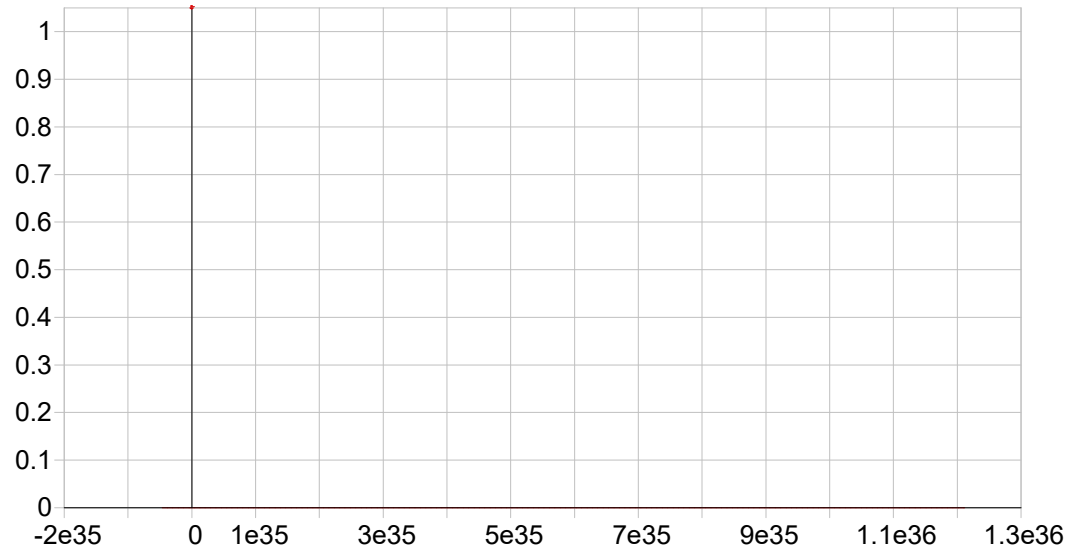
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:mohan
On:1/2/2025 2:18:34 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



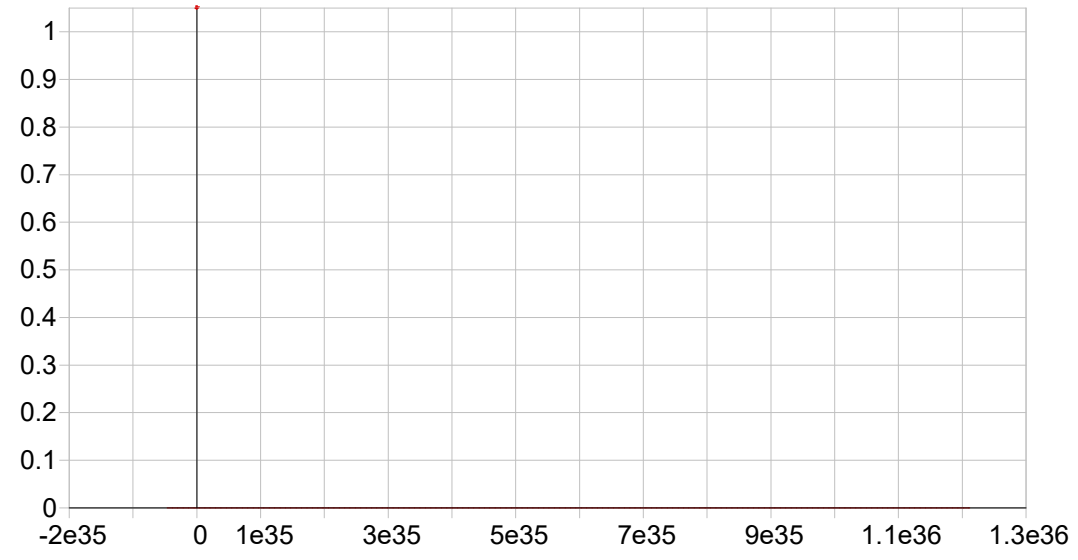
Y 371.030 { 91}*

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

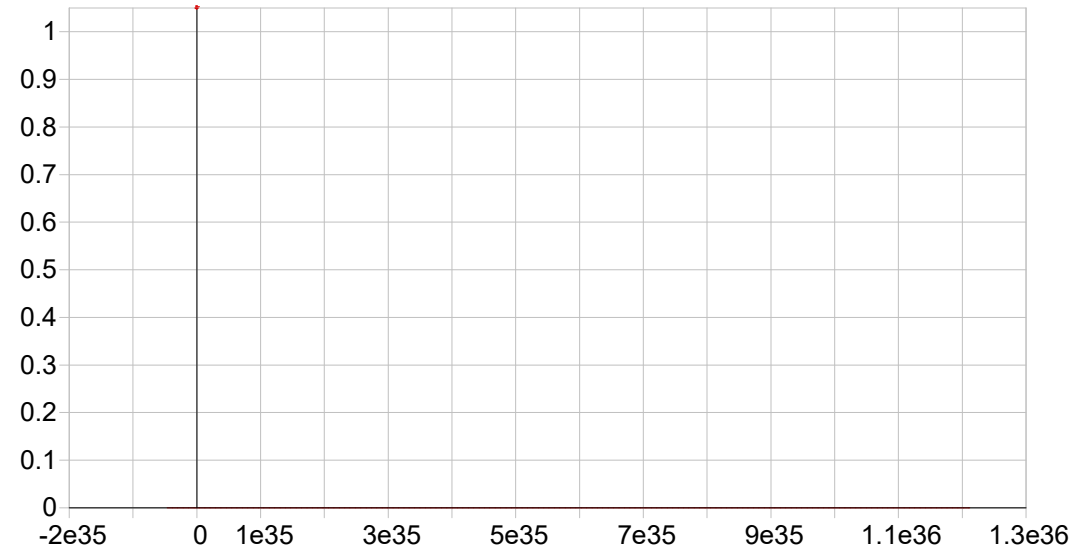
Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5



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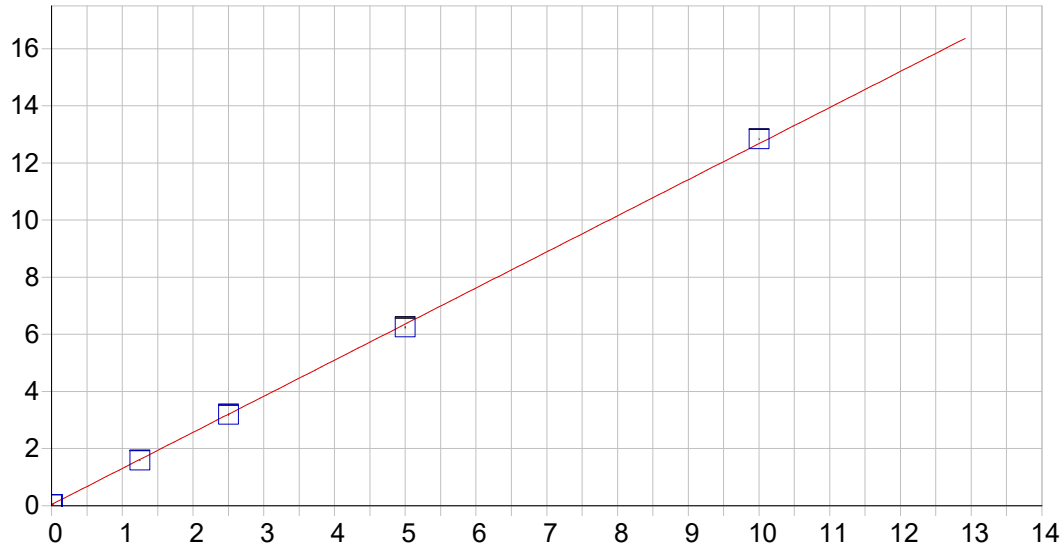
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

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



Li 670.784 { 50}

Date of Fit:	12/30/2024 18:57:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.042925	Re-Slope:	1.000000
A1 (Gain):	1.263612	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999886	Status:	OK.
Std Error of Est:	0.000391		
Predicted MDL:	0.003626		
Predicted MQL:	0.012087		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.04293	.005	1
S5	10.000	10.124	.124	1.24	12.836	.010	1
S4	5.0000	4.9118	-.088	-1.76	6.2495	.028	1
S3	2.5000	2.4909	-.009	-.366	3.1904	.024	1
S2	1.2500	1.2263	-.024	-1.90	1.5925	.008	1
S1	.01500	.01181	-.003	-21.3	.05784	.004	1

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S0 Acquired: 12/30/2024 18:31:54 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	.48771	-.00018	.00023	-.00007	-.00031	.00088	.05361	-.00018
Stddev	.36601	.00012	.00021	.00027	.00041	.00428	.00201	.00143
%RSD	75.047	67.224	89.359	364.32	132.22	488.47	3.7550	802.64
#1	.06555	-.00021	.00000	-.00036	-.00052	.00551	.05197	-.00104
#2	.68158	-.00028	.00040	.00017	-.00057	.00005	.05301	.00147
#3	.71602	-.00004	.00030	-.00003	.00016	-.00293	.05586	-.00096

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	.00015	.00524	-.00012	-.00044	.00070	.00033	.00001	-.00117
Stddev	.00040	.00019	.00013	.00009	.00090	.00069	.00067	.00112
%RSD	262.17	3.5611	104.42	20.663	128.77	205.07	10345.	95.638
#1	-.00013	.00509	-.00026	-.00047	.00018	.00054	-.00042	-.00004
#2	.00061	.00517	-.00010	-.00034	.00173	-.00043	.00078	-.00228
#3	-.00002	.00545	-.00001	-.00052	.00018	.00090	-.00034	-.00120

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	-.00102	.00038	.00809	-.00000	.07052	.06356	-.00395	.00654
Stddev	.00048	.00014	.00777	.00033	.00026	.00290	.00010	.00228
%RSD	46.986	36.901	96.117	20248.	.36704	4.5598	2.4303	34.807
#1	-.00067	.00026	.00212	-.00009	.07040	.06675	-.00386	.00500
#2	-.00156	.00035	.01687	.00036	.07082	.06108	-.00405	.00548
#3	-.00082	.00053	.00526	-.00028	.07035	.06285	-.00395	.00916

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00002	.00010	.01311	.00080	.00210	-.00120	.04293
Stddev	.00026	.00038	.00263	.00017	.00218	.00183	.00544
%RSD	1113.1	381.33	20.034	20.718	103.87	152.07	12.677
#1	-.00003	-.00018	.01612	.00095	-.00037	.00088	.03678
#2	-.00028	-.00005	.01127	.00063	.00376	-.00256	.04711
#3	.00024	.00053	.01194	.00081	.00290	-.00193	.04490

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S0 Acquired: 12/30/2024 18:31:54 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	1639.6	20600.	2264.6	1361.8	1934.7
Stddev	5.3	91.	17.0	1.3	3.6
%RSD	.32023	.44136	.75257	.09292	.18563
#1	1634.2	20686.	2256.6	1363.2	1930.9
#2	1640.1	20609.	2284.2	1360.7	1935.3
#3	1644.6	20504.	2253.0	1361.4	1938.0

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/30/2024 18:36:02 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	1.3820	.00228	.00285	.00179	.00864	.02336	.91421	.05540
Stddev	.5105	.00020	.00007	.00027	.00094	.00350	.00047	.00156
%RSD	36.939	8.7924	2.4382	15.327	10.933	14.998	.05156	2.8150
#1	.91488	.00250	.00292	.00170	.00917	.01942	.91368	.05582
#2	1.3043	.00211	.00284	.00157	.00755	.02612	.91459	.05671
#3	1.9270	.00223	.00278	.00210	.00921	.02453	.91434	.05368

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	.01982	.27139	.00303	.05588	.00505	.00216	.00658	.05527
Stddev	.00013	.00313	.00013	.00053	.00057	.00051	.00029	.00039
%RSD	.67127	1.1522	4.2074	.94534	11.267	23.597	4.4785	.70442
#1	.01972	.27257	.00311	.05647	.00515	.00182	.00692	.05545
#2	.01976	.26785	.00288	.05574	.00556	.00191	.00639	.05552
#3	.01997	.27376	.00309	.05544	.00444	.00274	.00643	.05482

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	.02468	.00354	1.3441	.00552	.21769	.20177	-.00333	.00318
Stddev	.00051	.00015	.0179	.00181	.00266	.00354	.00036	.00070
%RSD	2.0528	4.3105	1.3288	32.737	1.2220	1.7551	10.706	22.053
#1	.02490	.00361	1.3612	.00540	.21973	.20077	-.00372	.00391
#2	.02503	.00336	1.3256	.00377	.21468	.20571	-.00326	.00251
#3	.02410	.00365	1.3456	.00738	.21865	.19884	-.00301	.00313

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00721	.00417	.40085	.00148	.03985	.86866	.05784
Stddev	.00039	.00007	.00346	.00015	.00199	.00369	.00355
%RSD	5.3484	1.7529	.86390	9.9932	4.9955	.42486	6.1326
#1	.00703	.00422	.40047	.00156	.04171	.86598	.05417
#2	.00766	.00421	.39760	.00131	.03775	.86714	.05811
#3	.00695	.00409	.40449	.00157	.04009	.87287	.06125

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/30/2024 18:36:02 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	1671.7	20999.	2283.5	1389.8	1978.9
Stddev	3.6	63.	10.6	2.1	3.5
%RSD	.21736	.29841	.46504	.15268	.17545
#1	1675.6	21058.	2276.4	1387.8	1982.8
#2	1668.5	21006.	2295.7	1392.0	1977.7
#3	1670.9	20933.	2278.4	1389.6	1976.2

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/30/2024 18:40:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	155.29	.11676	1.5375	.07522	.19415	4.3239	10.483	1.3341
Stddev	.35	.00025	.0019	.00060	.00043	.0220	.032	.0058
%RSD	.22466	.21246	.12189	.79447	.22352	.50772	.30081	.43554
#1	155.69	.11648	1.5358	.07477	.19376	4.3037	10.449	1.3279
#2	155.04	.11694	1.5395	.07500	.19407	4.3472	10.512	1.3395
#3	155.13	.11686	1.5373	.07590	.19462	4.3207	10.488	1.3347

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	2.4778	3.3576	1.1657	.69992	.51094	.89583	1.5779	.68914
Stddev	.0030	.0093	.0009	.00131	.00134	.00271	.0046	.00014
%RSD	.11954	.27582	.08027	.18775	.26195	.30272	.28911	.02071
#1	2.4744	3.3473	1.1667	.69960	.51028	.89678	1.5769	.68919
#2	2.4798	3.3601	1.1652	.70137	.51248	.89794	1.5829	.68898
#3	2.4793	3.3653	1.1650	.69880	.51006	.89277	1.5740	.68924

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	.41069	.09221	11.757	.06640	9.2194	1.1148	.09121	.94803
Stddev	.00021	.00018	.037	.00087	.0742	.0031	.00018	.00121
%RSD	.05046	.19289	.31262	1.3055	.80526	.28113	.20013	.12792
#1	.41046	.09242	11.725	.06627	9.1533	1.1119	.09141	.94672
#2	.41074	.09212	11.749	.06560	9.2053	1.1143	.09115	.94911
#3	.41086	.09210	11.797	.06732	9.2997	1.1181	.09106	.94826

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.90680	.05422	2.0855	.15689	.48291	10.680	1.5925
Stddev	.00351	.00016	.0051	.00050	.00362	.048	.0083
%RSD	.38728	.28681	.24254	.31819	.74884	.45263	.51824
#1	.90315	.05404	2.0798	.15638	.48191	10.624	1.5836
#2	.90709	.05433	2.0875	.15738	.48692	10.710	1.5939
#3	.91015	.05428	2.0893	.15691	.47990	10.705	1.6000

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/30/2024 18:40:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	1617.5	20628.	2283.7	1343.4	1841.2
Stddev	3.5	54.	7.9	8.8	2.7
%RSD	.21621	.26008	.34596	.65207	.14665
#1	1621.4	20585.	2290.9	1349.6	1842.2
#2	1616.3	20688.	2284.9	1347.3	1838.1
#3	1614.7	20613.	2275.2	1333.4	1843.2

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/30/2024 18:44:01 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	305.05	.23407	3.1049	.15399	.39614	8.7538	21.221	2.6568
Stddev	.38	.00207	.0328	.00135	.00427	.0517	.147	.0054
%RSD	.12356	.88581	1.0574	.87878	1.0792	.59121	.69510	.20348
#1	304.94	.23416	3.1080	.15400	.39737	8.6985	21.061	2.6621
#2	304.74	.23610	3.1361	.15534	.39967	8.7621	21.248	2.6568
#3	305.47	.23195	3.0707	.15263	.39139	8.8010	21.353	2.6513

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	4.9981	6.7287	2.3102	1.4001	1.0172	1.8044	3.1852	1.3888
Stddev	.0564	.0274	.0024	.0156	.0064	.0107	.0221	.0120
%RSD	1.1286	.40670	.10165	1.1133	.62877	.59271	.69314	.86705
#1	4.9991	6.6994	2.3076	1.4019	1.0100	1.7924	3.1681	1.3825
#2	5.0539	6.7330	2.3112	1.4147	1.0191	1.8080	3.1773	1.3812
#3	4.9411	6.7537	2.3120	1.3837	1.0223	1.8128	3.2101	1.4027

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	.83212	.18601	25.506	.13479	18.539	2.2209	.19237	1.8972
Stddev	.00905	.00123	.035	.00094	.042	.0073	.00163	.0064
%RSD	1.0876	.66380	.13767	.69406	.22900	.32713	.84583	.33568
#1	.83279	.18482	25.474	.13378	18.502	2.2126	.19226	1.8977
#2	.84081	.18728	25.543	.13494	18.585	2.2247	.19404	1.9034
#3	.82275	.18592	25.502	.13564	18.529	2.2255	.19079	1.8907

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.8440	.11217	4.1051	.31856	.97461	21.665	3.1904
Stddev	.0137	.00121	.0066	.00312	.00538	.084	.0242
%RSD	.74473	1.0793	.15964	.97865	.55245	.38935	.75691
#1	1.8446	.11220	4.0977	.31816	.96887	21.573	3.1671
#2	1.8574	.11336	4.1073	.32186	.97540	21.682	3.1887
#3	1.8299	.11094	4.1102	.31567	.97955	21.739	3.2154

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/30/2024 18:44:01 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	1561.5	20211.	2259.2	1295.9	1763.7
Stddev	14.8	50.	3.7	3.4	19.6
%RSD	.94807	.24650	.16502	.26284	1.1134
#1	1556.8	20266.	2263.4	1299.2	1760.1
#2	1549.5	20199.	2256.3	1292.3	1746.1
#3	1578.0	20168.	2257.9	1296.1	1784.9

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/30/2024 18:47:50 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	594.19	.45709	6.1967	.30702	.79786	17.276	41.889	5.1591
Stddev	.80	.00152	.0186	.00115	.00133	.046	.180	.0428
%RSD	.13396	.33317	.29951	.37504	.16721	.26773	.42994	.83007
#1	595.10	.45637	6.1879	.30758	.79926	17.301	41.967	5.1630
#2	593.84	.45607	6.1843	.30570	.79772	17.304	42.017	5.1999
#3	593.63	.45884	6.2181	.30778	.79660	17.223	41.683	5.1145

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	9.8590	13.106	4.4874	2.7476	1.9943	3.5140	6.1778	2.7148
Stddev	.0270	.057	.0355	.0083	.0067	.0095	.0271	.0097
%RSD	.27331	.43262	.79189	.30304	.33537	.27053	.43881	.35654
#1	9.8472	13.153	4.4478	2.7459	1.9980	3.5192	6.1949	2.7128
#2	9.8401	13.121	4.5164	2.7403	1.9982	3.5197	6.1918	2.7254
#3	9.8899	13.043	4.4979	2.7567	1.9865	3.5030	6.1465	2.7064

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	1.6487	.36987	54.039	.26526	36.707	4.3628	.39050	3.6790
Stddev	.0030	.00289	.366	.00083	.266	.0167	.00113	.0250
%RSD	.18373	.78165	.67732	.31359	.72487	.38380	.28878	.67872
#1	1.6498	.36654	54.230	.26437	36.426	4.3779	.39131	3.6739
#2	1.6452	.37175	54.269	.26602	36.955	4.3658	.38921	3.7062
#3	1.6510	.37132	53.617	.26539	36.739	4.3448	.39098	3.6570

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.7042	.22798	7.8905	.63628	1.9233	42.702	6.2495
Stddev	.0076	.00053	.0662	.00239	.0082	.098	.0279
%RSD	.20655	.23070	.83839	.37525	.42790	.23019	.44639
#1	3.7083	.22767	7.8990	.63532	1.9317	42.771	6.2568
#2	3.6954	.22769	7.9520	.63452	1.9230	42.747	6.2731
#3	3.7089	.22859	7.8205	.63900	1.9152	42.590	6.2187

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/30/2024 18:47:50 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	1499.0	19874.	2261.1	1243.3	1699.6
Stddev	2.1	76.	21.0	5.2	5.5
%RSD	.14157	.38012	.92956	.41884	.32074
#1	1499.2	19938.	2247.1	1246.4	1702.5
#2	1501.0	19790.	2251.0	1237.3	1702.9
#3	1496.8	19892.	2285.3	1246.3	1693.3

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/30/2024 18:51:37 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	1140.1	.91411	12.710	.64451	1.7283	35.581	85.807	10.350
Stddev	.8	.00117	.018	.00139	.0041	.036	.127	.101
%RSD	.06710	.12806	.14539	.21644	.23912	.10092	.14769	.97868
#1	1140.6	.91279	12.712	.64489	1.7289	35.589	85.952	10.467
#2	1139.2	.91455	12.691	.64297	1.7239	35.541	85.717	10.289
#3	1140.4	.91500	12.728	.64568	1.7321	35.612	85.752	10.294

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	19.915	26.494	9.0146	5.5637	4.0585	7.0366	12.402	5.5028
Stddev	.032	.078	.0211	.0124	.0091	.0226	.029	.0155
%RSD	.16066	.29331	.23397	.22230	.22492	.32061	.23783	.28171
#1	19.915	26.566	9.0291	5.5589	4.0661	7.0627	12.430	5.5199
#2	19.883	26.411	9.0243	5.5544	4.0484	7.0235	12.371	5.4895
#3	19.947	26.504	8.9904	5.5777	4.0611	7.0236	12.404	5.4992

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	3.3480	.76795	115.22	.53839	76.348	8.9808	.81379	7.2723
Stddev	.0110	.00063	.53	.00057	.417	.0254	.00315	.0670
%RSD	.32868	.08189	.45805	.10559	.54574	.28279	.38680	.92133
#1	3.3518	.76856	115.58	.53830	75.968	9.0094	.81357	7.3478
#2	3.3356	.76730	114.61	.53900	76.283	8.9609	.81076	7.2198
#3	3.3567	.76799	115.47	.53787	76.794	8.9720	.81704	7.2493

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.9177	.47640	15.717	1.3024	3.9150	86.410	12.836
Stddev	.0191	.00174	.129	.0025	.0053	.786	.010
%RSD	.24092	.36460	.81948	.19257	.13590	.90961	.08134
#1	7.9092	.47744	15.866	1.3014	3.9211	85.799	12.841
#2	7.9043	.47439	15.633	1.3006	3.9121	87.297	12.824
#3	7.9396	.47735	15.653	1.3052	3.9117	86.134	12.843

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/30/2024 18:51:37 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	1332.0	18781.	2196.3	1101.3	1563.0
Stddev	2.4	13.	15.3	7.2	2.4
%RSD	.18182	.06791	.69769	.65430	.15263
#1	1334.3	18789.	2179.4	1108.8	1565.2
#2	1332.3	18767.	2209.2	1100.8	1563.4
#3	1329.5	18788.	2200.5	1094.4	1560.5

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: S6 Acquired: 12/30/2024 18:55:40 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) 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	91.561	41.699	18.101	8.6628	323.85
Stddev	.340	.136	.066	.0251	1.50
%RSD	.37135	.32567	.36613	.28962	.46347
#1	91.559	41.747	18.130	8.6725	323.18
#2	91.222	41.546	18.025	8.6343	325.57
#3	91.902	41.804	18.148	8.6815	322.80

Int. Std.	Y_3710
Units	Cts/S
Avg	2140.5
Stddev	2.6
%RSD	.12357
#1	2140.0
#2	2138.1
#3	2143.3

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: ICV005 Acquired: 12/30/2024 19:07:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV005 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.080223	1.029759	.9950504	1.002528	.9538177	2.512872
Stddev	.006231	.003851	.0014438	.008291	.0025610	.031874
%RSD	.5768535	.3739331	.1450981	.8270506	.2684958	1.268415
#1	1.082836	1.025542	.9966301	1.005659	.9542617	2.496117
#2	1.084722	1.033088	.9937991	.993127	.9510637	2.549629
#3	1.073110	1.030647	.9947220	1.008797	.9561276	2.492870

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5410605	.5418135	.5131480	10.63053	.5619677	.5137286
Stddev	.0115337	.0093399	.0007659	.23816	.0075221	.0001505
%RSD	2.131690	1.723813	.1492525	2.240294	1.338531	.0292946
#1	.5376641	.5380958	.5125968	10.49550	.5688669	.5137301
#2	.5539110	.5524397	.5128248	10.90551	.5539483	.5135774
#3	.5316063	.5349049	.5140226	10.49057	.5630878	.5138784

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5330611	10.90618	.5503640	6.441025	.5209222	.2501392
Stddev	.0036034	.24624	.0084662	.095550	.0004804	.0025269
%RSD	.6759847	2.257772	1.538295	1.483457	.0922211	1.010200
#1	.5304848	10.74570	.5479440	6.414045	.5208427	.2518996
#2	.5371788	11.18969	.5597768	6.547164	.5204865	.2472438
#3	.5315195	10.78315	.5433713	6.361866	.5214374	.2512741

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.432906	.5373080	.9847268	9.838333	F -.002858	F -.022855
Stddev	.115921	.0244940	.0156095	.112916	.003258	.000228
%RSD	1.228903	4.558655	1.585158	1.147713	113.9792	.9955645
#1	9.380408	.5333702	.9967002	9.732140	-.002683	-.022994
#2	9.565789	.5635324	.9670725	9.956945	-.006200	-.022980
#3	9.352522	.5150214	.9904077	9.825915	.000309	-.022593

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: ICV005 Acquired: 12/30/2024 19:07:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV005 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0007553	F .0103732	F .0002918	F .0014187	F .0004416	F -.009780
Stddev	.0001869	.0019412	.0008796	.0004184	.0046983	.000215
%RSD	24.73849	18.71314	301.4705	29.49398	1063.990	2.193752
#1	.0008575	.0119618	.0009212	.0010072	-.001756	-.009668
#2	.0005397	.0082095	.0006675	.0014052	.005836	-.010027
#3	.0008688	.0109484	-.000713	.0018437	-.002755	-.009644

Elem	Li6707
Units	ppm
Avg	F .0206045
Stddev	.0063842
%RSD	30.98433
#1	.0166640
#2	.0279703
#3	.0171792

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1665.388	20948.27	2254.700	1386.999	1953.339
Stddev	.951	323.02	30.597	26.015	1.037
%RSD	.0571213	1.541967	1.357019	1.875631	.0530879
#1	1665.616	20722.96	2275.379	1370.115	1952.328
#2	1666.205	21318.35	2219.552	1416.958	1954.400
#3	1664.344	20803.51	2269.169	1373.925	1953.288

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: ICB005 Acquired: 12/30/2024 19:11:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB005 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004422	-.000055	.0006760	.0094432	.0032602	-.017424
Stddev	.000589	.003508	.0012038	.0063903	.0008928	.034597
%RSD	13.31514	6376.647	178.0634	67.67020	27.38489	198.5532
#1	-.005050	.002086	.0020641	.0092697	.0039381	-.005690
#2	-.003883	-.004103	.0000456	.0159185	.0035939	.009779
#3	-.004332	.001852	-.000082	.0031415	.0022486	-.056362

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018960	.0001969	.0000913	.0117123	-.000236	-.000205
Stddev	.0008401	.0001511	.0000552	.0144878	.000398	.000308
%RSD	44.30695	76.73582	60.39428	123.6977	169.0779	150.1010
#1	.0028649	.0002296	.0001479	-.004512	-.000642	-.000371
#2	.0013708	.0003289	.0000377	.016291	-.000219	.000150
#3	.0014524	.0000321	.0000884	.023357	.000154	-.000395

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061687	-.023173	-.000546	.0481811	-.000764	.0008865
Stddev	.0089478	.014484	.001420	.0353511	.000402	.0011057
%RSD	145.0504	62.50541	260.2503	73.37118	52.61609	124.7215
#1	.0147270	-.030691	-.001316	.0120598	-.001218	.0020471
#2	-.003123	-.006475	.001093	.0497756	-.000623	-.000155
#3	.006903	-.032352	-.001414	.0827080	-.000452	.000767

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0262150	-.007058	.0006547	.1011701	-.001412	-.001380
Stddev	.0123692	.006383	.0000754	.1566626	.001358	.001677
%RSD	47.18383	90.43841	11.51386	154.8506	96.17765	121.5110
#1	.0197096	-.004658	.0005681	.0568419	-.002017	-.000752
#2	.0184559	-.002222	.0007059	.2752204	.000143	-.000108
#3	.0404793	-.014293	.0006900	-.028552	-.002363	-.003281

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: ICB005 Acquired: 12/30/2024 19:11:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB005 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004424	.0011069	.0001734	.0008751	-.001252	-.000130
Stddev	.0004210	.0022354	.0010305	.0010993	.002767	.000249
%RSD	95.15588	201.9442	594.1416	125.6246	220.9722	190.6955
#1	.0008973	-.000199	-.000174	.0021129	.000030	-.000046
#2	.0003632	.003688	-.000639	.0000127	.000641	.000065
#3	.0000667	-.000168	.001333	.0004996	-.004428	-.000410

Elem	Li6707
Units	ppm
Avg	F .0201766
Stddev	.0028008
%RSD	13.88160
#1	.0217487
#2	.0218383
#3	.0169429

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1617.831	20661.87	2244.670	1370.334	1905.590
Stddev	21.190	131.88	16.038	8.275	24.201
%RSD	1.309759	.6382684	.7144734	.6038481	1.270015
#1	1639.371	20747.44	2226.211	1377.092	1929.791
#2	1597.010	20728.18	2252.616	1372.805	1881.389
#3	1617.111	20510.00	2255.183	1361.106	1905.590

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: ICSA005 Acquired: 12/30/2024 19:15:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA005 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019224	.0064219	.0070429	-.006256	.0029989	247.5376
Stddev	.0056777	.0073943	.0009340	.004508	.0029282	.4298
%RSD	295.3463	115.1420	13.26176	72.06210	97.64188	.1736117
#1	-.001574	.0017314	.0059875	-.010565	.0016897	247.6627
#2	-.001133	.0149457	.0073784	-.006632	.0063534	247.8909
#3	.008474	.0025885	.0077629	-.001572	.0009537	247.0592

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069434	.0014372	.0009415	254.8073	.0546590	.0362012
Stddev	.0003974	.0000756	.0000864	.1908	.0008419	.0006535
%RSD	5.723151	5.260761	9.175395	.0748799	1.540249	1.805307
#1	.0067619	.0014009	.0009821	254.9558	.0554176	.0356354
#2	.0066692	.0013865	.0010001	254.8739	.0548062	.0360516
#3	.0073992	.0015241	.0008423	254.5921	.0537533	.0369166

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040628	104.5612	.0081151	265.9305	.0072743	-.005853
Stddev	.0140723	.1068	.0005219	1.0380	.0008964	.000520
%RSD	346.3688	.1021870	6.431323	.3903212	12.32247	8.889388
#1	.0195258	104.6501	.0087000	265.8863	.0062648	-.006372
#2	-.007993	104.5908	.0076968	266.9899	.0079770	-.005331
#3	.000656	104.4426	.0079487	264.9154	.0075810	-.005857

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1246495	.0057452	-.022565	-.217994	.0058272	F -.244283
Stddev	.0361432	.0033235	.000251	.046698	.0041154	.005263
%RSD	28.99587	57.84806	1.110835	21.42165	70.62349	2.154508
#1	.1481180	.0049062	-.022385	-.242136	.0014085	-.245926
#2	.1428025	.0094078	-.022459	-.164167	.0095507	-.238395
#3	.0830279	.0029216	-.022851	-.247679	.0065225	-.248529

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: ICSA005 Acquired: 12/30/2024 19:15:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA005 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024792	.0159462	-.001970	F .0146502	-.005251	.0039033
Stddev	.0005627	.0087397	.000571	.0010760	.001646	.0003420
%RSD	22.69673	54.80710	28.99347	7.344695	31.34462	8.762206
#1	.0030583	.0091696	-.001514	.0143841	-.003557	.0036702
#2	.0019344	.0128584	-.001786	.0158343	-.006845	.0037439
#3	.0024449	.0258106	-.002611	.0137322	-.005351	.0042960

Elem	Li6707
Units	ppm
Avg	F .0249194
Stddev	.0031040
%RSD	12.45628
#1	.0228785
#2	.0284916
#3	.0233883

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1570.153	19536.80	2239.211	1305.365	1734.218
Stddev	7.818	110.80	17.790	3.274	4.926
%RSD	.4979338	.5671282	.7944773	.2508457	.2840742
#1	1572.784	19553.67	2219.631	1305.838	1737.591
#2	1576.317	19418.53	2254.383	1301.879	1736.499
#3	1561.358	19638.20	2243.618	1308.377	1728.565

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: ICSAB005 Acquired: 12/30/2024 19:50:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB005 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1018566	.0998692	.0576695	.0392489	.5991666	231.7798
Stddev	.0087626	.0051157	.0041732	.0025021	.0026822	.8584
%RSD	8.602880	5.122373	7.236340	6.374888	.4476521	.3703320
#1	.1117581	.0953886	.0624386	.0397611	.5994371	230.8086
#2	.0987096	.0987759	.0558827	.0414552	.5963595	232.4369
#3	.0951021	.1054432	.0546873	.0365303	.6017033	232.0938

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5424965	.5405325	1.061315	240.3109	.6203899	.5472687
Stddev	.0017840	.0053971	.002727	.5044	.0016266	.0016058
%RSD	.3288520	.9984758	.2569782	.2099028	.2621899	.2934155
#1	.5405982	.5416880	1.060308	239.7791	.6217169	.5463216
#2	.5427530	.5452582	1.059235	240.3713	.6208775	.5463618
#3	.5441385	.5346512	1.064403	240.7825	.6185753	.5491228

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4965447	98.16970	.5467131	248.7891	1.054149	.2109795
Stddev	.0148174	.29137	.0034264	.7576	.002468	.0013625
%RSD	2.984093	.2968029	.6267227	.3045110	.2341084	.6457770
#1	.5081233	98.05458	.5436099	247.9197	1.053344	.2123633
#2	.5016645	97.95347	.5461391	249.1404	1.052183	.2096394
#3	.4798464	98.50104	.5503902	249.3074	1.056918	.2109358

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0714130	.5313850	1.008942	-.628636	.0017804	F -.238675
Stddev	.0119023	.0095604	.004816	.200760	.0048004	.004835
%RSD	16.66690	1.799156	.4773220	31.93583	269.6189	2.025929
#1	.0682484	.5208842	1.013824	-.672055	.0000757	-.243424
#2	.0614127	.5336856	1.008806	-.804135	-.001935	-.238844
#3	.0845777	.5395853	1.004195	-.409720	.007201	-.233757

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: ICSAB005 Acquired: 12/30/2024 19:50:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB005 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025634	.0324169	.0005468	F .0112974	-.007134	.0036982
Stddev	.0003400	.0051773	.0016273	.0012809	.000854	.0006773
%RSD	13.26177	15.97086	297.6038	11.33775	11.96583	18.31451
#1	.0029113	.0275147	.0018078	.0106119	-.006225	.0038987
#2	.0025470	.0319049	.0011228	.0127751	-.007257	.0042526
#3	.0022320	.0378311	-.001290	.0105052	-.007919	.0029433

Elem	Li6707
Units	ppm
Avg	.0008555
Stddev	.0034199
%RSD	399.7545
#1	-.003093
#2	.002809
#3	.002850

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1577.431	19662.38	2278.562	1311.421	1746.493
Stddev	1.087	25.04	14.844	5.340	3.671
%RSD	.0688916	.1273550	.6514606	.4071694	.2101737
#1	1577.503	19633.49	2272.191	1305.447	1749.292
#2	1578.480	19675.91	2267.967	1315.730	1747.850
#3	1576.310	19677.75	2295.528	1313.085	1742.337

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCV049 Acquired: 12/30/2024 19:54:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV049 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.954220	4.820814	24.67484	4.928340	4.904377	403.6664
Stddev	.007127	.007446	.03523	.013375	.003710	.9030
%RSD	.1438658	.1544526	.1427659	.2713935	.0756367	.2236967
#1	4.945997	4.816615	24.64162	4.915678	4.901798	404.7090
#2	4.958622	4.829411	24.67113	4.942329	4.902706	403.1340
#3	4.958041	4.816416	24.71178	4.927014	4.908629	403.1561

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.08487	.5058581	2.489382	410.2640	15.50336	2.486900
Stddev	.01531	.0032236	.003768	1.2386	.01266	.004228
%RSD	.1518013	.6372583	.1513674	.3019055	.0816549	.1700255
#1	10.10234	.5086082	2.485410	411.6817	15.48968	2.483209
#2	10.07379	.5066555	2.489831	409.7188	15.51465	2.485977
#3	10.07847	.5023106	2.492906	409.3915	15.50576	2.491513

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.10156	409.0644	15.03071	403.3444	2.512215	1.264303
Stddev	.05823	1.4306	.04156	1.3341	.003856	.000396
%RSD	.3856014	.3497168	.2765299	.3307560	.1535020	.0312870
#1	15.16880	410.7104	15.07272	404.3779	2.510054	1.264560
#2	15.06804	408.3616	15.02979	403.8170	2.509923	1.264502
#3	15.06784	408.1212	14.98961	401.8384	2.516667	1.263848

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	408.0286	2.487329	14.90307	152.7635	4.894061	F 4.350231
Stddev	.7441	.021434	.10303	.5062	.004398	.025270
%RSD	.1823611	.8617170	.6913187	.3313353	.0898542	.5808821
#1	408.6593	2.511326	14.84620	153.3260	4.892494	4.378696
#2	407.2079	2.480575	14.84100	152.6196	4.890661	4.341554
#3	408.2185	2.470086	15.02200	152.3448	4.899027	4.330443

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCV049 Acquired: 12/30/2024 19:54:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV049 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.808307	4.977871	4.974573	5.033391	5.032397	4.821186
Stddev	.010329	.002191	.032792	.003314	.003508	.011616
%RSD	.2148122	.0440048	.6592003	.0658485	.0697171	.2409266
#1	4.811806	4.979539	5.007911	5.029929	5.034703	4.833882
#2	4.796683	4.978684	4.973453	5.036535	5.028359	4.818582
#3	4.816432	4.975390	4.942354	5.033709	5.034128	4.811094

Elem	Li6707
Units	ppm
Avg	5.079033
Stddev	.007151
%RSD	.1407868
#1	5.080603
#2	5.071227
#3	5.085268

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1433.484	18782.51	2183.176	1178.744	1607.459
Stddev	3.230	15.63	13.211	8.838	2.571
%RSD	.2253068	.0832173	.6051132	.7497961	.1599591
#1	1429.774	18799.28	2169.567	1183.743	1604.982
#2	1435.017	18779.90	2184.012	1183.950	1607.281
#3	1435.662	18768.35	2195.949	1168.539	1610.116

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCB049 Acquired: 12/30/2024 19:58:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB049 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000949	-.003074	.0029558	.0010957	-.000451	.0226319	.0009061
Stddev	.005150	.001956	.0013712	.0069894	.003450	.0108423	.0008298
%RSD	542.9495	63.64263	46.38867	637.8645	765.5776	47.90740	91.57721
#1	-.003628	-.003773	.0014111	-.006901	.003000	.0296089	.0018244
#2	.004989	-.000864	.0040290	.004148	-.000451	.0101407	.0002100
#3	-.004206	-.004585	.0034273	.006040	-.003900	.0281460	.0006840

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001324	.0001528	.0424126	.0006210	-.000032	.0018386	.0400512
Stddev	.0000846	.0001138	.0206334	.0004698	.000216	.0055688	.0126412
%RSD	63.92587	74.50172	48.64930	75.64381	679.4934	302.8769	31.56255
#1	.0001725	.0000235	.0655014	.0000787	-.000154	-.003238	.0263144
#2	.0001895	.0002381	.0359590	.0008831	.000218	.000959	.0426450
#3	.0000352	.0001968	.0257773	.0009013	-.000160	.007795	.0511944

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004557	.0982321	-.000608	.0011610	.0644596	.0010683	.0026544
Stddev	.0013445	.0577988	.000352	.0010077	.0186929	.0105502	.0011254
%RSD	295.0460	58.83898	57.95804	86.79613	28.99945	987.5905	42.39569
#1	.0002183	.1615614	-.000987	.0000443	.0763259	.0035315	.0039440
#2	.0019031	.0848089	-.000546	.0014362	.0741412	-.010496	.0021476
#3	-.000754	.0483261	-.000290	.0020026	.0429118	.010169	.0018716

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0807830	-.002732	.0110931	.0006819	-.000283	.0009773	.0000654
Stddev	.1041563	.002413	.0038659	.0008693	.002653	.0009751	.0027229
%RSD	128.9334	88.34133	34.84942	127.4760	938.4186	99.77931	4164.445
#1	.0028219	-.000841	.0066842	.0016815	.002056	.0020288	.0013661
#2	.0404535	-.005450	.0126923	.0002610	.000261	.0001028	.0018940
#3	.1990736	-.001904	.0139028	.0001032	-.003166	.0008003	-.003064

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCB049 Acquired: 12/30/2024 19:58:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB049 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.002024	.0001103	.0129394
Stddev	.002339	.0001582	.0023618
%RSD	115.5596	143.4285	18.25233
#1	-.000220	.0001140	.0156661
#2	-.004667	.0002665	.0115308
#3	-.001186	-.000050	.0116215

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1682.786	21083.90	2236.699	1399.218	1981.144
Stddev	16.505	315.78	29.053	22.991	19.347
%RSD	.9808192	1.497727	1.298921	1.643165	.9765643
#1	1692.481	20723.13	2211.502	1372.684	1991.795
#2	1692.148	21310.08	2268.478	1413.235	1992.826
#3	1663.728	21218.51	2230.118	1411.735	1958.812

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-07DLX2 Acquired: 12/30/2024 20:02:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK19 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0434769	.0152753	.1535327	-.010542	-.001019	29.50271	.4568861
Stddev	.0048016	.0029561	.0011148	.005923	.003943	.31674	.0036984
%RSD	11.04408	19.35199	.7260735	56.18337	386.9164	1.073607	.8094768
#1	.0379325	.0130014	.1523278	-.010729	.003094	29.15822	.4527649
#2	.0462272	.0186169	.1545273	-.004528	-.001386	29.56854	.4579774
#3	.0462710	.0142076	.1537431	-.016369	-.004765	29.78136	.4599161

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026668	.0024728	521.4104	.0505103	.0832344	.1460967	87.91561
Stddev	.0000291	.0000549	4.6044	.0017262	.0004957	.0130964	.91273
%RSD	1.090688	2.219615	.8830671	3.417497	.5954972	8.964195	1.038185
#1	.0026796	.0024948	516.1791	.0486272	.0829271	.1423857	86.94671
#2	.0026873	.0024104	523.2038	.0520178	.0838062	.1606481	88.04091
#3	.0026335	.0025133	524.8482	.0508858	.0829698	.1352562	88.75921

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.524421	200.4422	.0989303	-.003429	.9743230	.0839301	.2318832
Stddev	.097009	1.9120	.0008919	.000394	.0052467	.0091151	.0049619
%RSD	1.018526	.9539038	.9015509	11.49256	.5384931	10.86034	2.139806
#1	9.413764	198.3301	.0999109	-.002977	.9701377	.0747330	.2298778
#2	9.564687	200.9413	.0981674	-.003613	.9726224	.0840964	.2375338
#3	9.594812	202.0551	.0987127	-.003698	.9802091	.0929610	.2282378

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.548820	3.422686	-.159906	.0023690	.8012198	5.040831	.0129702
Stddev	.085756	.015837	.001230	.0005166	.0048860	.048420	.0014488
%RSD	1.545490	.4627029	.7689385	21.80501	.6098213	.9605602	11.17050
#1	5.458350	3.407501	-.160379	.0018836	.7968836	5.014882	.0125860
#2	5.559190	3.421455	-.158510	.0023115	.8002620	5.010916	.0145725
#3	5.628920	3.439102	-.160828	.0029119	.8065137	5.096695	.0117522

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-07DLX2 Acquired: 12/30/2024 20:02:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK19 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5939829	.2956660	.0803411
Stddev	.0070245	.0017308	.0042452
%RSD	1.182609	.5854063	5.283919
#1	.5865940	.2938127	.0850147
#2	.5947796	.2972405	.0792846
#3	.6005750	.2959447	.0767239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1728.204	21664.23	2489.576	1417.586	1697.679
Stddev	4.479	392.98	16.633	24.680	3.417
%RSD	.2591981	1.813954	.6680963	1.740962	.2012988
#1	1728.233	21884.92	2505.587	1430.153	1700.772
#2	1723.710	21210.51	2490.756	1389.152	1694.010
#3	1732.669	21897.26	2472.385	1433.453	1698.256

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-13DLX2 Acquired: 12/30/2024 20:06:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK23 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0580937	.0103484	.3262740	.0004320	.0024288	35.08406	.6049268
Stddev	.0075167	.0069200	.0012861	.0050586	.0029262	.45199	.0071075
%RSD	12.93890	66.87013	.3941804	1170.952	120.4785	1.288309	1.174929
#1	.0499609	.0081716	.3276401	-.001468	.0008137	34.62289	.5968587
#2	.0647858	.0047785	.3250865	.006165	.0006661	35.10301	.6076588
#3	.0595343	.0180950	.3260956	-.003402	.0058066	35.52627	.6102629

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038395	.0033934	611.7892	.0581775	.0864383	.2000040	90.97233
Stddev	.0001401	.0001222	5.1209	.0005526	.0004154	.0069012	.86534
%RSD	3.650095	3.600275	.8370397	.9498399	.4805242	3.450527	.9512107
#1	.0039182	.0033591	606.3923	.0585159	.0869176	.2079120	90.04368
#2	.0036777	.0035290	612.3951	.0584768	.0861829	.1951990	91.11724
#3	.0039227	.0032920	616.5802	.0575398	.0862145	.1969009	91.75606

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.010547	53.02422	.0939538	-.003085	.5768913	.0843874	.4749167
Stddev	.058443	.75308	.0005495	.000601	.0148632	.0056459	.0011618
%RSD	.9723470	1.420248	.5848752	19.47017	2.576421	6.690417	.2446370
#1	5.951096	52.21052	.0945861	-.002747	.5651840	.0891141	.4740317
#2	6.012616	53.16547	.0935926	-.003778	.5936132	.0859123	.4762324
#3	6.067928	53.69666	.0936825	-.002729	.5718768	.0781357	.4744861

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.485326	4.069600	-.160573	.0030091	1.050995	5.453320	.0341282
Stddev	.204710	.013572	.002359	.0001781	.006494	.033933	.0013950
%RSD	2.734821	.3334896	1.468907	5.917778	.6178887	.6222391	4.087527
#1	7.253695	4.077374	-.159185	.0030318	1.057830	5.420552	.0356846
#2	7.641965	4.053929	-.163296	.0028208	1.044906	5.451102	.0337094
#3	7.560318	4.077498	-.159237	.0031748	1.050247	5.488308	.0329905

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-13DLX2 Acquired: 12/30/2024 20:06:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK23 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3202627	.4610435	.0675465
Stddev	.0078198	.0040460	.0038397
%RSD	2.441697	.8775810	5.684528
#1	.3123699	.4567498	.0662864
#2	.3204108	.4615956	.0644952
#3	.3280075	.4647852	.0718579

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1795.661	22722.39	2559.554	1486.537	1727.095
Stddev	3.799	82.70	10.815	2.342	4.158
%RSD	.2115717	.3639530	.4225368	.1575140	.2407441
#1	1792.971	22655.16	2570.484	1486.775	1724.240
#2	1800.007	22697.27	2559.321	1484.085	1731.865
#3	1794.004	22814.73	2548.858	1488.750	1725.180

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-14DLX2 Acquired: 12/30/2024 20:10:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK24 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0536274	.0148332	.2585458	-.004387	-.003227	29.99283	.3959171
Stddev	.0023569	.0047180	.0024000	.000456	.005561	.11192	.0026728
%RSD	4.394880	31.80682	.9282750	10.39385	172.3572	.3731402	.6750995
#1	.0559850	.0095077	.2566094	-.004895	-.009373	29.88220	.3937628
#2	.0536259	.0184903	.2577971	-.004014	-.001763	29.99032	.3950803
#3	.0512712	.0165016	.2612309	-.004252	.001456	30.10599	.3989082

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028649	.0036196	623.0600	.0485587	.0883845	.1831172	85.88856
Stddev	.0000623	.0000840	3.1653	.0008382	.0001652	.0100484	.53369
%RSD	2.175552	2.321185	.5080301	1.726099	.1869100	5.487426	.6213797
#1	.0028248	.0035238	619.4597	.0494535	.0885734	.1946696	85.36017
#2	.0029367	.0036809	624.3147	.0477918	.0883133	.1782780	85.87810
#3	.0028331	.0036540	625.4057	.0484309	.0882668	.1764040	86.42741

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.477869	69.85676	.0918938	-.002459	.8027131	.0815111	.6663326
Stddev	.031825	.14128	.0006842	.000544	.0158954	.0061581	.0034675
%RSD	.4255852	.2022404	.7445482	22.14581	1.980208	7.554919	.5203904
#1	7.450154	69.74537	.0926451	-.003002	.7880935	.0760294	.6688004
#2	7.470827	69.80922	.0917299	-.001913	.8196335	.0803296	.6678293
#3	7.512624	70.01567	.0913064	-.002460	.8004121	.0881743	.6623681

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.190310	7.601224	-.156952	.0045916	.9077847	5.228611	.0282725
Stddev	.049401	.018547	.002428	.0006528	.0100594	.013119	.0012023
%RSD	.9517936	.2440014	1.547161	14.21664	1.108131	.2508984	4.252690
#1	5.198329	7.597071	-.159332	.0053030	.8970923	5.235675	.0282632
#2	5.137391	7.585105	-.157045	.0040202	.9092005	5.236683	.0270748
#3	5.235212	7.621495	-.154478	.0044516	.9170612	5.213474	.0294795

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-14DLX2 Acquired: 12/30/2024 20:10:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK24 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5137295	.5452238	.0636905
Stddev	.0047193	.0042832	.0023767
%RSD	.9186420	.7855931	3.731565
#1	.5106212	.5402833	.0652205
#2	.5114074	.5478920	.0648985
#3	.5191600	.5474963	.0609525

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1805.903	22559.84	2587.391	1486.042	1716.802
Stddev	2.963	28.31	8.721	4.404	1.289
%RSD	.1640700	.1254694	.3370761	.2963247	.0751095
#1	1809.175	22577.33	2580.987	1482.940	1718.290
#2	1803.403	22527.18	2583.862	1484.104	1716.024
#3	1805.129	22575.01	2597.324	1491.082	1716.091

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-15DLX2 Acquired: 12/30/2024 20:14:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK25 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0397766	.0214879	.0636681	-.028189	-.006000	20.26041	.3428308
Stddev	.0032157	.0034830	.0009764	.007246	.004547	.21154	.0045712
%RSD	8.084387	16.20930	1.533518	25.70389	75.78489	1.044117	1.333363
#1	.0374935	.0253014	.0643190	-.034807	-.000803	20.01685	.3375799
#2	.0434542	.0184745	.0641397	-.020447	-.007951	20.39831	.3449910
#3	.0383822	.0206880	.0625454	-.029314	-.009245	20.36608	.3459215

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019996	.0023251	488.6351	.0426390	.0764463	.0999365	55.65061
Stddev	.0001177	.0000686	5.2570	.0009071	.0006889	.0041684	.50736
%RSD	5.887339	2.948742	1.075858	2.127479	.9011329	4.171097	.9116953
#1	.0019872	.0022598	483.0047	.0416904	.0758919	.1034186	55.15670
#2	.0018885	.0023965	493.4150	.0427288	.0772175	.1010733	56.17044
#3	.0021230	.0023189	489.4857	.0434980	.0762295	.0953175	55.62467

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.087665	21.79728	.0624460	-.002048	.4227535	.0352964	.1798317
Stddev	.047357	.24424	.0004281	.000772	.0282039	.0083330	.0007123
%RSD	.9308200	1.120508	.6854650	37.70840	6.671489	23.60871	.3960772
#1	5.034833	21.51658	.0627520	-.002937	.3960661	.0332751	.1792574
#2	5.126300	21.96131	.0626291	-.001540	.4199324	.0281600	.1806287
#3	5.101862	21.91394	.0619568	-.001667	.4522620	.0444541	.1796088

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.121523	4.171243	-.099240	.0063253	.5335168	5.210184	.0111181
Stddev	.082212	.001566	.002993	.0003920	.0102113	.017358	.0013447
%RSD	1.605224	.0375308	3.016094	6.197428	1.913960	.3331575	12.09420
#1	5.027332	4.169517	-.099389	.0064739	.5289737	5.227764	.0119587
#2	5.158381	4.171640	-.102155	.0066212	.5452113	5.209731	.0095673
#3	5.178856	4.172572	-.096174	.0058807	.5263655	5.193057	.0118284

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-15DLX2 Acquired: 12/30/2024 20:14:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK25 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3487715	.3187374	.0430200
Stddev	.0069614	.0043855	.0103670
%RSD	1.995965	1.375906	24.09804
#1	.3412551	.3142136	.0315729
#2	.3500624	.3229701	.0517763
#3	.3549971	.3190286	.0457106

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1726.894	21797.32	2438.080	1434.772	1783.644
Stddev	4.017	61.86	7.247	6.717	3.558
%RSD	.2326077	.2838074	.2972258	.4681483	.1994687
#1	1722.960	21748.48	2440.621	1437.250	1779.543
#2	1730.989	21776.60	2429.905	1427.169	1785.906
#3	1726.733	21866.88	2443.714	1439.898	1785.482

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-17DLX2 Acquired: 12/30/2024 20:17:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK27 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079321	.0337417	.0386367	-.059444	-.018527	3.740971
Stddev	.0114662	.0014946	.0042286	.009310	.002611	.066382
%RSD	144.5538	4.429439	10.94447	15.66139	14.09221	1.774458
#1	-.004804	.0328219	.0379551	-.048759	-.021542	3.668964
#2	.011168	.0354662	.0347903	-.063767	-.017077	3.799729
#3	.017433	.0329371	.0431646	-.065807	-.016964	3.754220

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0277708	.0010782	.0007658	F 1291.503	.0262064	.0522824
Stddev	.0009119	.0001410	.0001223	18.833	.0004479	.0009197
%RSD	3.283762	13.07839	15.97090	1.458204	1.709138	1.759164
#1	.0276415	.0010044	.0008354	1276.726	.0256947	.0512208
#2	.0287405	.0012408	.0006246	1312.708	.0263969	.0528386
#3	.0269304	.0009895	.0008374	1285.074	.0265275	.0527879

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090678	20.46903	.6691677	58.89462	.0353388	-.000910
Stddev	.0058597	.19135	.0088488	.87453	.0014202	.000790
%RSD	64.62119	.9348162	1.322356	1.484913	4.018701	86.75671
#1	.0050774	20.27878	.6609195	58.06866	.0349869	-.001762
#2	.0157952	20.66146	.6785145	59.81074	.0369019	-.000202
#3	.0063308	20.46687	.6680691	58.80447	.0341277	-.000767

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8174411	.0145783	.1079640	2.374843	.6524216	-.020310
Stddev	.0291345	.0043222	.0010407	.191902	.0080907	.000868
%RSD	3.564107	29.64852	.9638850	8.080637	1.240107	4.274847
#1	.8256493	.0195646	.1086629	2.242627	.6610866	-.020378
#2	.8415910	.0122692	.1084610	2.594950	.6511138	-.021143
#3	.7850831	.0119010	.1067680	2.286952	.6450645	-.019410

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-17DLX2 Acquired: 12/30/2024 20:17:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK27 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035319	14.62169	3.029351	.0095312	-.006435	.8529834
Stddev	.0005418	.00605	.042751	.0024568	.003908	.0125724
%RSD	15.33919	.0414111	1.411241	25.77666	60.72842	1.473931
#1	.0041423	14.62175	3.013964	.0122624	-.006502	.8435726
#2	.0031080	14.62772	3.077666	.0075011	-.002495	.8672618
#3	.0033454	14.61561	2.996424	.0088301	-.010310	.8481157

Elem	Li6707
Units	ppm
Avg	.0280142
Stddev	.0041455
%RSD	14.79784
#1	.0233026
#2	.0296381
#3	.0311020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1632.581	20640.60	2344.226	1346.883	1680.756
Stddev	2.730	47.84	36.256	11.887	3.247
%RSD	.1671928	.2317875	1.546627	.8825209	.1931767
#1	1630.399	20592.64	2354.377	1338.215	1677.752
#2	1631.702	20640.84	2303.976	1342.001	1680.314
#3	1635.642	20688.32	2374.325	1360.433	1684.200

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5030-10DLX2 Acquired: 12/30/2024 20:21:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK48 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099155	.0282640	.1234359	-.039048	-.013768	13.80895	.0394042
Stddev	.0077967	.0040048	.0023295	.008539	.002835	.08496	.0009147
%RSD	78.63110	14.16932	1.887180	21.86694	20.58887	.6152685	2.321239
#1	.0184939	.0290579	.1207508	-.034615	-.011918	13.72200	.0385738
#2	.0032607	.0318125	.1246415	-.033638	-.012355	13.89178	.0403846
#3	.0079919	.0239217	.1249155	-.048892	-.017032	13.81307	.0392542

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020148	.0012205	664.8337	.0303679	.0640053	.0483471	44.01879
Stddev	.0000135	.0000434	2.1724	.0003129	.0003882	.0048560	.20499
%RSD	.6709663	3.552208	.3267559	1.030422	.6065352	10.04413	.4656945
#1	.0020190	.0012613	662.4755	.0306623	.0644355	.0534603	43.79456
#2	.0019997	.0012251	666.7533	.0304021	.0638991	.0437974	44.19659
#3	.0020258	.0011750	665.2723	.0300393	.0636812	.0477837	44.06521

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.804957	353.4758	.0538243	-.000828	.9238745	.0251931	.2590000
Stddev	.013877	1.1816	.0009372	.001622	.0219556	.0041600	.0014751
%RSD	.4947297	.3342905	1.741151	195.8841	2.376465	16.51264	.5695509
#1	2.792372	352.3520	.0527422	-.002031	.9055718	.0282370	.2595826
#2	2.819839	354.7079	.0543681	.001017	.9482181	.0268893	.2573225
#3	2.802659	353.3675	.0543628	-.001470	.9178336	.0204529	.2600948

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.878635	.9125984	-.008169	.0010382	14.73552	3.720595	.0088576
Stddev	.023876	.0046350	.001282	.0004899	.02213	.018239	.0018952
%RSD	.3030461	.5078873	15.69439	47.19164	.1501866	.4902282	21.39584
#1	7.881162	.9116064	-.009125	.0015860	14.74983	3.735316	.0097863
#2	7.853596	.9176491	-.008669	.0006420	14.74671	3.726279	.0066772
#3	7.901147	.9085398	-.006712	.0008865	14.71003	3.700191	.0101093

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5030-10DLX2 Acquired: 12/30/2024 20:21:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK48 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0285731	.3295543	.0411102
Stddev	.0031601	.0013356	.0020419
%RSD	11.05980	.4052687	4.966913
#1	.0249340	.3308906	.0414462
#2	.0301595	.3295530	.0389212
#3	.0306257	.3282194	.0429633

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1624.802	20526.58	2355.912	1348.661	1677.547
Stddev	2.356	118.46	10.060	6.754	1.405
%RSD	.1450070	.5770826	.4270281	.5008092	.0837770
#1	1623.557	20474.69	2349.845	1345.722	1675.937
#2	1627.520	20662.13	2350.365	1356.387	1678.173
#3	1623.330	20442.92	2367.525	1343.875	1678.530

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5030-11DLX2 Acquired: 12/30/2024 20:25:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK49 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0132751	.0237057	.4183176	-.047361	-.015705	11.51761
Stddev	.0069128	.0047474	.0051107	.007936	.001714	.04682
%RSD	52.07335	20.02622	1.221728	16.75684	10.91130	.4064997
#1	.0207022	.0279905	.4129686	-.047522	-.017487	11.46983
#2	.0070288	.0245243	.4231509	-.039346	-.015559	11.51959
#3	.0120943	.0186023	.4188335	-.055216	-.014070	11.56341

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0762997	.0018489	.0046122	F 980.1238	.0396173	.0651560
Stddev	.0012679	.0000684	.0001681	5.8294	.0004047	.0004667
%RSD	1.661688	3.702034	3.645842	.5947644	1.021472	.7162679
#1	.0767460	.0019275	.0047697	973.9092	.0399855	.0656627
#2	.0772841	.0018019	.0046316	980.9914	.0396823	.0650615
#3	.0748691	.0018174	.0044351	985.4708	.0391840	.0647437

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0372822	49.46481	3.400884	546.0403	.0516490	-.001937
Stddev	.0044612	.34471	.019516	3.7657	.0003041	.000922
%RSD	11.96612	.6968756	.5738424	.6896381	.5887212	47.59868
#1	.0416542	49.12683	3.385600	541.7315	.0517257	-.002913
#2	.0374556	49.45174	3.394185	547.6886	.0513140	-.001080
#3	.0327368	49.81587	3.422867	548.7008	.0519074	-.001819

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.242105	.0246641	1.053924	6.025246	.9894511	-.030828
Stddev	.008639	.0099360	.002231	.121126	.0045213	.004440
%RSD	.6954976	40.28507	.2116611	2.010313	.4569520	14.40228
#1	1.241038	.0295428	1.051366	5.885702	.9851893	-.027933
#2	1.234050	.0312176	1.054942	6.086829	.9941935	-.035939
#3	1.251228	.0132319	1.055464	6.103209	.9889706	-.028610

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5030-11DLX2 Acquired: 12/30/2024 20:25:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK49 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014203	23.13428	4.065107	.0118491	.0440856	.3987235
Stddev	.0004455	.05831	.022290	.0020197	.0037497	.0005899
%RSD	31.36310	.2520637	.5483309	17.04546	8.505502	.1479418
#1	.0017508	23.08523	4.086760	.0128482	.0473398	.3980432
#2	.0009137	23.19875	4.066330	.0131745	.0399850	.3990929
#3	.0015964	23.11884	4.042230	.0095245	.0449319	.3990343

Elem	Li6707
Units	ppm
Avg	.0386572
Stddev	.0035001
%RSD	9.054083
#1	.0359129
#2	.0374600
#3	.0425988

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1569.136	20072.83	2313.992	1309.722	1599.604
Stddev	3.915	89.30	3.102	4.862	6.248
%RSD	.2495198	.4448587	.1340532	.3712410	.3906086
#1	1573.647	20172.40	2310.552	1315.185	1606.676
#2	1567.148	20046.25	2314.849	1305.869	1594.831
#3	1566.615	19999.85	2316.575	1308.112	1597.305

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5030-12DLX2 Acquired: 12/30/2024 20:29:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK50 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139581	.0184250	1.320186	-.030378	-.015268	7.831066
Stddev	.0068813	.0028345	.006263	.009291	.003939	.056578
%RSD	49.29929	15.38391	.4744334	30.58491	25.79714	.7224861
#1	.0110913	.0189728	1.327416	-.035122	-.011023	7.775362
#2	.0089738	.0209456	1.316731	-.036339	-.015977	7.829357
#3	.0218093	.0153566	1.316411	-.019672	-.018804	7.888480

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0827917	.0018233	.0149798	F 1186.411	.0270655	.0647188
Stddev	.0017558	.0001719	.0000864	2.317	.0007065	.0006972
%RSD	2.120712	9.427094	.5768160	.1952601	2.610241	1.077263
#1	.0809817	.0019124	.0148811	1184.916	.0265242	.0645299
#2	.0829058	.0019324	.0150421	1185.238	.0268076	.0654910
#3	.0844877	.0016251	.0150160	1189.080	.0278647	.0641356

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0287839	64.44469	4.157253	658.3639	.0480961	.0001920
Stddev	.0020681	.27404	.015962	2.1741	.0006457	.0007423
%RSD	7.185083	.4252286	.3839627	.3302249	1.342453	386.6879
#1	.0263958	64.19094	4.146466	657.2610	.0481405	-.000590
#2	.0299776	64.40783	4.149704	656.9624	.0487185	.000887
#3	.0299783	64.73529	4.175590	660.8684	.0474294	.000278

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.379398	.0242053	2.846177	4.635684	.5260061	-.074999
Stddev	.037123	.0085664	.012328	.083860	.0010464	.000998
%RSD	2.691229	35.39077	.4331429	1.809003	.1989386	1.330101
#1	1.347015	.0249107	2.853031	4.541336	.5248038	-.073928
#2	1.419912	.0323972	2.853555	4.663984	.5267114	-.075169
#3	1.371267	.0153079	2.831945	4.701733	.5265032	-.075901

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5030-12DLX2 Acquired: 12/30/2024 20:29:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK50 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027165	46.25797	3.479757	.0146657	.0028766	.3902675
Stddev	.0006830	.13947	.007084	.0009196	.0023667	.0009279
%RSD	25.14276	.3015130	.2035771	6.270662	82.27489	.2377526
#1	.0024866	46.36837	3.487106	.0144319	.0007099	.3906663
#2	.0034847	46.10122	3.479195	.0156796	.0054023	.3892069
#3	.0021780	46.30432	3.472971	.0138855	.0025175	.3909293

Elem	Li6707
Units	ppm
Avg	.0323806
Stddev	.0051898
%RSD	16.02741
#1	.0280897
#2	.0309032
#3	.0381488

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1579.197	19939.72	2317.757	1300.962	1608.703
Stddev	1.953	48.34	.200	6.159	5.213
%RSD	.1236641	.2424114	.0086139	.4734091	.3240273
#1	1577.107	19991.61	2317.865	1303.415	1603.872
#2	1580.976	19931.58	2317.527	1293.955	1614.228
#3	1579.507	19895.97	2317.880	1305.517	1608.011

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5032-05DLX2 Acquired: 12/30/2024 20:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK59 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0770724	.0033416	.7826234	.0140419	.0047378	25.27143	.4440852
Stddev	.0017154	.0032902	.0044737	.0037181	.0044356	.06604	.0019360
%RSD	2.225745	98.46227	.5716230	26.47864	93.62064	.2613083	.4359589
#1	.0752149	-.000382	.7780979	.0172540	.0002977	25.26987	.4447446
#2	.0774055	.004551	.7870433	.0099689	.0047468	25.33823	.4419056
#3	.0785969	.005856	.7827290	.0149027	.0091688	25.20619	.4456055

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032986	.0033047	500.3123	.0442720	.0852953	.1430900	120.8493
Stddev	.0001285	.0001650	1.0184	.0004290	.0001596	.0026940	.2605
%RSD	3.896336	4.993477	.2035547	.9690156	.1871070	1.882756	.2155533
#1	.0031502	.0034917	501.4792	.0446253	.0853740	.1417935	120.6355
#2	.0033700	.0031798	499.8549	.0443962	.0854002	.1461872	120.7730
#3	.0033757	.0032425	499.6027	.0437946	.0851116	.1412894	121.1394

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.84621	114.6830	.0879194	-.002805	.5255535	.1084705	.7475267
Stddev	.01516	.2248	.0004793	.000183	.0102150	.0016305	.0045001
%RSD	.1279482	.1959923	.5451420	6.530899	1.943668	1.503214	.6019943
#1	11.83278	114.4791	.0876714	-.003016	.5307921	.1079658	.7490828
#2	11.84320	114.6460	.0876149	-.002687	.5137820	.1071520	.7424551
#3	11.86265	114.9240	.0884719	-.002713	.5320866	.1102938	.7510421

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.986135	6.336467	-.257005	.0093522	.9374934	6.271100	.0444684
Stddev	.033090	.009986	.002850	.0006558	.0069375	.057718	.0010467
%RSD	.8301333	.1575959	1.108820	7.012561	.7400091	.9203868	2.353931
#1	3.949194	6.335281	-.258024	.0096959	.9295431	6.256880	.0437553
#2	3.996147	6.327126	-.253786	.0097646	.9423193	6.221820	.0439798
#3	4.013062	6.346992	-.259205	.0085959	.9406178	6.334599	.0456701

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5032-05DLX2 Acquired: 12/30/2024 20:33:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK59 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2472109	.2789600	.0341459
Stddev	.0018939	.0024150	.0024274
%RSD	.7661223	.8657037	7.108789
#1	.2492080	.2811007	.0367440
#2	.2469841	.2794373	.0337576
#3	.2454406	.2763421	.0319361

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1773.122	22228.83	2527.614	1468.094	1763.451
Stddev	3.298	105.07	16.976	5.184	4.678
%RSD	.1860158	.4726662	.6716319	.3530789	.2652730
#1	1776.053	22114.44	2530.512	1465.385	1768.750
#2	1773.763	22251.05	2542.955	1474.071	1761.712
#3	1769.551	22321.02	2509.376	1464.827	1759.892

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5032-06DLX2 Acquired: 12/30/2024 20:37:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK60 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0454914	.0092931	.1679383	.0210328	.0084297	17.85559	.3801514
Stddev	.0041856	.0049218	.0011188	.0066006	.0019761	.06434	.0002456
%RSD	9.200885	52.96243	.6661972	31.38256	23.44260	.3603509	.0645943
#1	.0406607	.0038805	.1691334	.0209610	.0079906	17.91975	.3803039
#2	.0480396	.0104984	.1669158	.0144684	.0105884	17.79107	.3798681
#3	.0477739	.0135003	.1677659	.0276691	.0067100	17.85597	.3802821

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027346	.0027336	738.7848	.0344801	.0877611	.0899887	137.1512
Stddev	.0000870	.0000986	1.1225	.0006409	.0005969	.0072776	.2225
%RSD	3.181220	3.606688	.1519347	1.858798	.6801738	8.087266	.1622510
#1	.0028316	.0028467	740.0044	.0349499	.0881241	.0982950	137.1802
#2	.0027084	.0026654	737.7950	.0337500	.0880870	.0869397	136.9156
#3	.0026636	.0026888	738.5552	.0347403	.0870722	.0847316	137.3579

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.96692	257.4808	.0799205	-.002821	.5501284	.0675911	.1689408
Stddev	.00196	.2861	.0009620	.001572	.0295603	.0091498	.0018169
%RSD	.0093349	.1111140	1.203765	55.72495	5.373344	13.53705	1.075436
#1	20.96891	257.7070	.0809241	-.004230	.5379337	.0772087	.1672516
#2	20.96687	257.1592	.0790062	-.003108	.5286163	.0665699	.1687080
#3	20.96499	257.5763	.0798312	-.001125	.5838351	.0589947	.1708629

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.704808	5.085254	-.285505	.0085040	1.013741	4.799894	.0208530
Stddev	.028134	.009515	.005393	.0009204	.005308	.051741	.0015745
%RSD	.7594003	.1871033	1.889000	10.82378	.5235637	1.077953	7.550634
#1	3.677961	5.095814	-.290367	.0087271	1.010120	4.839060	.0224419
#2	3.702390	5.082600	-.286445	.0074925	1.019834	4.819382	.0208237
#3	3.734074	5.077348	-.279704	.0092924	1.011269	4.741239	.0192933

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5032-06DLX2 Acquired: 12/30/2024 20:37:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK60 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0787777	.3343793	.0224111
Stddev	.0031238	.0012373	.0039873
%RSD	3.965382	.3700451	17.79146
#1	.0818263	.3357756	.0215035
#2	.0755837	.3339433	.0189558
#3	.0789232	.3334189	.0267739

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1736.095	22004.85	2510.868	1446.496	1675.222
Stddev	4.671	200.93	22.243	10.925	3.934
%RSD	.2690569	.9131091	.8858703	.7552747	.2348463
#1	1730.776	22080.76	2495.331	1457.304	1670.683
#2	1737.982	22156.77	2500.925	1446.728	1677.347
#3	1739.528	21777.03	2536.348	1435.457	1677.637

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5032-07DLX2 Acquired: 12/30/2024 20:41:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK61 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225109	.0183794	.1544769	-.020227	-.004532	26.61781	.1549077
Stddev	.0027230	.0036411	.0047593	.003099	.002609	.07247	.0006017
%RSD	12.09625	19.81096	3.080933	15.31898	57.57210	.2722725	.3884293
#1	.0256351	.0142118	.1599046	-.017490	-.005565	26.62658	.1544726
#2	.0206416	.0209441	.1525091	-.019599	-.006467	26.54135	.1546560
#3	.0212560	.0199824	.1510171	-.023591	-.001565	26.68550	.1555943

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026252	.0017444	454.9794	.0394921	.0725077	.1531952	72.16054
Stddev	.0001152	.0000236	1.5380	.0005689	.0016365	.0055206	.20303
%RSD	4.388236	1.355728	.3380467	1.440639	2.257009	3.603648	.2813588
#1	.0026406	.0017635	454.6024	.0391640	.0740166	.1476189	72.19669
#2	.0025030	.0017519	453.6648	.0391632	.0727383	.1586584	71.94186
#3	.0027319	.0017180	456.6708	.0401490	.0707681	.1533082	72.34307

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.231090	77.22059	.0747605	-.001191	.5365697	.0533780	.2307199
Stddev	.022636	.40271	.0012001	.000709	.0266241	.0097242	.0015537
%RSD	.4327213	.5215110	1.605304	59.55821	4.961903	18.21761	.6733903
#1	5.242429	77.32538	.0760734	-.001481	.5654201	.0501415	.2315400
#2	5.205025	76.77584	.0744883	-.000383	.5129476	.0643078	.2289280
#3	5.245815	77.56054	.0737199	-.001710	.5313412	.0456848	.2316916

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.474017	5.052149	-.141566	.0030094	.6717474	5.744468	.0122768
Stddev	.090821	.063899	.000753	.0003273	.0114627	.014676	.0011029
%RSD	2.029974	1.264782	.5318473	10.87556	1.706400	.2554737	8.983163
#1	4.576283	5.123569	-.140929	.0028928	.6846117	5.757097	.0131126
#2	4.443002	5.032484	-.142397	.0033790	.6680127	5.747939	.0110268
#3	4.402766	5.000394	-.141373	.0027564	.6626178	5.728368	.0126911

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5032-07DLX2 Acquired: 12/30/2024 20:41:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK61 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2432369	.3379085	.0332405
Stddev	.0056709	.0024015	.0017321
%RSD	2.331429	.7106931	5.210922
#1	.2367189	.3353149	.0352274
#2	.2470400	.3383558	.0320483
#3	.2459518	.3400550	.0324459

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1778.983	22298.23	2503.955	1470.102	1799.133
Stddev	11.860	140.83	10.782	9.242	17.477
%RSD	.6666931	.6315528	.4305875	.6286880	.9714174
#1	1766.395	22177.32	2491.681	1462.385	1780.870
#2	1780.606	22452.85	2508.290	1480.345	1800.831
#3	1789.948	22264.51	2511.895	1467.576	1815.700

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5038-08DLX2 Acquired: 12/30/2024 20:45:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK88 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0634160	.0136663	1.959905	-.019193	-.000209	20.61737
Stddev	.0066322	.0046554	.001871	.006520	.001296	.04412
%RSD	10.45819	34.06502	.0954765	33.97145	620.2637	.2140078
#1	.0675340	.0177737	1.960570	-.014255	-.001668	20.58538
#2	.0557653	.0146159	1.957792	-.026584	.000235	20.59902
#3	.0669488	.0086093	1.961354	-.016739	.000807	20.66771

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6078060	.0026273	.0056857	F 843.6060	.0887184	.0768290
Stddev	.0014942	.0003511	.0001732	1.3564	.0007726	.0007677
%RSD	.2458344	13.36471	3.046171	.1607891	.8708318	.9992197
#1	.6093473	.0022257	.0056456	843.8503	.0878277	.0772933
#2	.6063638	.0028762	.0058754	842.1441	.0892076	.0759429
#3	.6077069	.0027800	.0055361	844.8238	.0891198	.0772508

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2850232	83.49426	5.504634	89.58710	.0798922	-.000390
Stddev	.0091863	.17901	.011707	.43554	.0007460	.000293
%RSD	3.222993	.2143977	.2126670	.4861654	.9337006	75.15432
#1	.2896272	83.44674	5.504041	89.56565	.0806165	-.000482
#2	.2744454	83.34380	5.493235	89.16268	.0799338	-.000627
#3	.2909971	83.69223	5.516625	90.03297	.0791263	-.000062

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8581375	.0627088	1.842426	2.452147	4.688598	-.166963
Stddev	.0261034	.0097875	.011573	.123907	.011505	.003088
%RSD	3.041868	15.60784	.6281568	5.052996	.2453920	1.849426
#1	.8315414	.0541821	1.829321	2.471790	4.689351	-.164544
#2	.8591524	.0605483	1.851246	2.565060	4.676734	-.170441
#3	.8837186	.0733961	1.846710	2.319592	4.699708	-.165904

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5038-08DLX2 Acquired: 12/30/2024 20:45:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK88 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038855	1.490180	5.274852	.1265216	.2355107	.4962138
Stddev	.0003162	.002763	.022640	.0034918	.0047611	.0005658
%RSD	8.138927	.1853969	.4292016	2.759853	2.021591	.1140262
#1	.0042422	1.486990	5.253960	.1226009	.2304300	.4968669
#2	.0036395	1.491783	5.271689	.1276676	.2398698	.4959008
#3	.0037748	1.491768	5.298907	.1292965	.2362322	.4958736

Elem	Li6707
Units	ppm
Avg	.0182313
Stddev	.0048088
%RSD	26.37646
#1	.0147637
#2	.0162093
#3	.0237209

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1679.519	21389.38	2416.140	1402.580	1700.717
Stddev	4.471	32.28	11.237	2.573	3.063
%RSD	.2662237	.1509093	.4650725	.1834792	.1801277
#1	1680.920	21420.46	2415.857	1401.039	1702.617
#2	1674.515	21356.03	2427.515	1401.150	1697.183
#3	1683.122	21391.66	2405.047	1405.551	1702.351

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5038-15DLX2 Acquired: 12/30/2024 20:49:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053926	.0280241	.5031683	-.048235	-.015576	14.28467
Stddev	.0046193	.0039805	.0019336	.005264	.003064	.37632
%RSD	85.65936	14.20389	.3842742	10.91286	19.67327	2.634448
#1	.0020573	.0268247	.5049732	-.044206	-.018622	14.04388
#2	.0106650	.0324663	.5011277	-.054191	-.015612	14.09180
#3	.0034554	.0247811	.5034039	-.046309	-.012494	14.71833

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1344386	.0014276	.0044984	F 816.2273	.0378147	.0584548
Stddev	.0027996	.0000944	.0001460	20.0560	.0009451	.0007025
%RSD	2.082398	6.611780	3.246169	2.457155	2.499254	1.201723
#1	.1330253	.0015366	.0045352	804.2233	.0367393	.0580360
#2	.1326274	.0013742	.0046225	805.0779	.0381920	.0592658
#3	.1376631	.0013720	.0043375	839.3807	.0385129	.0580626

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0444772	44.53398	4.484706	426.0423	.0521107	-.001059
Stddev	.0028881	1.00019	.090887	9.7870	.0008413	.001612
%RSD	6.493417	2.245902	2.026601	2.297179	1.614380	152.2564
#1	.0443547	43.94730	4.422797	420.1048	.0512099	.000392
#2	.0416522	43.96579	4.442271	420.6838	.0528760	-.002795
#3	.0474245	45.68885	4.589049	437.3384	.0522461	-.000775

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9040362	.0631643	.7896274	1.390576	1.570580	-.069388
Stddev	.0274835	.0141980	.0003363	.137071	.005195	.001358
%RSD	3.040084	22.47781	.0425925	9.857156	.3307499	1.956566
#1	.8943037	.0470049	.7898370	1.234666	1.565067	-.070945
#2	.8827434	.0688490	.7898058	1.444922	1.575383	-.068769
#3	.9350616	.0736391	.7892395	1.492142	1.571290	-.068450

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5038-15DLX2 Acquired: 12/30/2024 20:49:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019945	8.043955	4.990583	.0188539	.1558197	.2568009
Stddev	.0001103	.026470	.075587	.0014504	.0041502	.0065996
%RSD	5.531631	.3290730	1.514583	7.692858	2.663458	2.569926
#1	.0019002	8.031929	4.975626	.0192133	.1511173	.2529223
#2	.0019675	8.074304	4.923594	.0172576	.1573709	.2530594
#3	.0021159	8.025633	5.072530	.0200909	.1589708	.2644211

Elem	Li6707
Units	ppm
Avg	.0147990
Stddev	.0030531
%RSD	20.63069
#1	.0114527
#2	.0174330
#3	.0155114

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1560.669	20027.93	2341.868	1307.430	1615.540
Stddev	2.532	50.96	32.709	2.463	4.714
%RSD	.1622164	.2544595	1.396707	.1883934	.2918171
#1	1562.418	20084.72	2349.269	1308.117	1619.328
#2	1557.766	20012.92	2370.243	1309.477	1610.260
#3	1561.822	19986.16	2306.093	1304.697	1617.033

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5038-16DLX2 Acquired: 12/30/2024 20:52:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029864	.0255793	.0849543	-.044734	-.012702	21.27622	.1400296
Stddev	.0032890	.0029423	.0025299	.004127	.005681	.05809	.0014023
%RSD	110.1320	11.50285	2.978002	9.225657	44.72717	.2730293	1.001407
#1	.0022149	.0275081	.0875208	-.044404	-.018978	21.22852	.1412808
#2	.0065926	.0221927	.0848797	-.040782	-.011219	21.25923	.1402940
#3	.0001517	.0270371	.0824626	-.049016	-.007910	21.34091	.1385139

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015998	.0014411	546.9444	.0313501	.0513613	.0366131	38.28404
Stddev	.0001026	.0001294	1.9124	.0002843	.0004488	.0085183	.15091
%RSD	6.410088	8.977170	.3496536	.9069317	.8738381	23.26574	.3941888
#1	.0016164	.0013687	544.7362	.0312523	.0511343	.0269523	38.11230
#2	.0016930	.0013642	548.0640	.0316705	.0518782	.0430442	38.39549
#3	.0014899	.0015905	548.0329	.0311277	.0510713	.0398430	38.34432

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.282624	161.4135	.0436045	-.000267	.6727229	.0482201	.2448848
Stddev	.005032	1.0795	.0013277	.001376	.0196005	.0052965	.0043340
%RSD	.2204330	.6687586	3.044815	515.6868	2.913601	10.98402	1.769801
#1	2.279386	160.1931	.0446685	-.001320	.6504544	.0543354	.2495484
#2	2.280066	162.2433	.0440283	.001290	.6803552	.0452313	.2409810
#3	2.288421	161.8040	.0421166	-.000770	.6873591	.0450935	.2441248

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3993125	.9733149	-.046410	.0097707	8.695395	8.016388	.0089174
Stddev	.0243001	.0018993	.001427	.0003401	.012616	.095511	.0004181
%RSD	6.085483	.1951373	3.074020	3.480362	.1450911	1.191443	4.688864
#1	.3932328	.9742995	-.046401	.0094381	8.684867	7.955385	.0093810
#2	.3786295	.9711254	-.044988	.0097562	8.691939	8.126459	.0085689
#3	.4260751	.9745197	-.047841	.0101177	8.709379	7.967319	.0088022

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5038-16DLX2 Acquired: 12/30/2024 20:52:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7076012	.3179595	-.000214
Stddev	.0075973	.0020838	.004818
%RSD	1.073670	.6553703	2255.818
#1	.7028159	.3156286	-.005657
#2	.7163613	.3196422	.003504
#3	.7036263	.3186077	.001513

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1621.301	20368.22	2317.090	1340.072	1727.695
Stddev	1.598	292.72	25.114	20.025	3.967
%RSD	.0985580	1.437117	1.083864	1.494358	.2296241
#1	1620.454	20030.29	2330.700	1318.279	1732.250
#2	1620.304	20531.08	2288.108	1357.663	1725.839
#3	1623.144	20543.28	2332.461	1344.275	1724.995

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5038-17DLX2 Acquired: 12/30/2024 20:56:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075128	.0234952	.2616126	-.034675	-.016475	10.34350
Stddev	.0047675	.0033565	.0038328	.002862	.001391	.09691
%RSD	63.45779	14.28585	1.465071	8.252492	8.440226	.9368828
#1	.0123353	.0196332	.2577278	-.036787	-.015883	10.23455
#2	.0074010	.0257091	.2617188	-.031418	-.018063	10.42008
#3	.0028023	.0251432	.2653912	-.035820	-.015478	10.37586

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1287838	.0015244	.0036256	F 923.7737	.0304536	.0577709
Stddev	.0018038	.0002228	.0000467	5.1276	.0004648	.0009056
%RSD	1.400657	14.61291	1.289135	.5550748	1.526328	1.567548
#1	.1308564	.0012686	.0036530	918.4027	.0307274	.0567316
#2	.1279261	.0016752	.0035716	928.6172	.0307165	.0581906
#3	.1275688	.0016296	.0036521	924.3012	.0299169	.0583905

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0371568	51.87307	4.382138	484.1897	.0550607	-.001239
Stddev	.0003913	.32179	.028551	3.5968	.0011709	.000344
%RSD	1.053038	.6203349	.6515364	.7428452	2.126539	27.76803
#1	.0371051	51.57112	4.350902	481.2790	.0553616	-.001130
#2	.0367939	52.21157	4.406889	488.2107	.0537687	-.001625
#3	.0375713	51.83651	4.388625	483.0793	.0560517	-.000963

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.014865	.0397610	.6794441	1.801885	1.174292	-.076643
Stddev	.038947	.0007508	.0032089	.062267	.002563	.001680
%RSD	3.837621	1.888243	.4722851	3.455659	.2182750	2.192155
#1	1.058431	.0389059	.6758230	1.740358	1.172354	-.075093
#2	.983419	.0403124	.6805742	1.864867	1.177199	-.076409
#3	1.002745	.0400645	.6819350	1.800429	1.173324	-.078428

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5038-17DLX2 Acquired: 12/30/2024 20:56:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033913	18.05706	4.748546	.0138660	.0816691	.3860318
Stddev	.0004546	.03144	.023876	.0020503	.0051282	.0029790
%RSD	13.40428	.1741242	.5027997	14.78672	6.279213	.7716995
#1	.0030686	18.06534	4.721116	.0115484	.0791854	.3827620
#2	.0031942	18.02230	4.759860	.0154435	.0875662	.3867417
#3	.0039112	18.08353	4.764661	.0146062	.0782557	.3885918

Elem	Li6707
Units	ppm
Avg	.0078930
Stddev	.0010324
%RSD	13.07955
#1	.0090446
#2	.0070504
#3	.0075839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1568.252	19863.95	2288.350	1296.868	1627.618
Stddev	3.759	93.18	9.977	7.367	1.161
%RSD	.2396701	.4690732	.4359783	.5680347	.0713292
#1	1565.371	19867.88	2282.983	1290.035	1627.863
#2	1572.504	19768.87	2282.205	1295.897	1628.636
#3	1566.881	19955.10	2299.861	1304.672	1626.354

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5038-18DLX2 Acquired: 12/30/2024 21:00:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0291530	.0203127	.9841245	-.037964	-.010297	15.99588	.3919684
Stddev	.0018559	.0018126	.0018713	.005516	.000648	.27176	.0065168
%RSD	6.365925	8.923543	.1901524	14.52870	6.293105	1.698947	1.662576
#1	.0278657	.0182463	.9820017	-.043728	-.011035	15.98078	.3932025
#2	.0283129	.0210575	.9855357	-.037429	-.010034	15.73198	.3849229
#3	.0312803	.0216342	.9848360	-.032736	-.009822	16.27488	.3977799

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021850	.0036962	637.0969	.0391334	.0623937	.1435112	52.19191
Stddev	.0000479	.0000321	10.9056	.0008952	.0000848	.0102101	1.00650
%RSD	2.190237	.8673086	1.711770	2.287589	.1358745	7.114487	1.928466
#1	.0021411	.0036806	636.9538	.0392009	.0624386	.1529262	52.07548
#2	.0022360	.0036749	626.2635	.0382064	.0622959	.1326585	51.24868
#3	.0021777	.0037330	648.0734	.0399930	.0624465	.1449488	53.25156

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.324355	345.1545	.0600930	-.000418	.7514779	.0408389	.8246647
Stddev	.057897	5.6564	.0005642	.001434	.0204958	.0042839	.0022342
%RSD	1.741614	1.638812	.9388599	342.8604	2.727393	10.48977	.2709226
#1	3.320554	344.2341	.0607435	.001234	.7751041	.0442706	.8267059
#2	3.268451	340.0147	.0597372	-.001336	.7384706	.0360377	.8222778
#3	3.384058	351.2147	.0597983	-.001152	.7408590	.0422085	.8250105

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.314764	2.344334	-.091716	.0029708	12.28897	4.929067	.0355262
Stddev	.159795	.007968	.003075	.0003302	.04099	.053133	.0025013
%RSD	6.903289	.3398812	3.353013	11.11638	.3335181	1.077955	7.040850
#1	2.158133	2.352830	-.090500	.0032442	12.32729	4.930054	.0369344
#2	2.308612	2.343147	-.095214	.0030643	12.29385	4.875447	.0326382
#3	2.477545	2.337027	-.089435	.0026039	12.24575	4.981699	.0370060

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5038-18DLX2 Acquired: 12/30/2024 21:00:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1578239	1.062058	.0150609
Stddev	.0068493	.017883	.0042019
%RSD	4.339854	1.683792	27.89937
#1	.1635863	1.064856	.0127696
#2	.1596342	1.042941	.0125027
#3	.1502513	1.078376	.0199104

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1647.892	20796.31	2412.015	1361.372	1685.608
Stddev	3.466	38.42	25.718	2.069	2.721
%RSD	.2103034	.1847607	1.066255	.1519667	.1614362
#1	1643.991	20753.87	2410.463	1362.762	1683.109
#2	1650.613	20828.74	2438.474	1362.360	1685.207
#3	1649.074	20806.32	2387.107	1358.995	1688.507

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5266-18DLX2 Acquired: 12/30/2024 21:04:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2903 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1067487	-.146903	3.182111	.3141003	.1539216	30.71852
Stddev	.0020422	.001521	.002721	.0084350	.0061007	.26068
%RSD	1.913141	1.035423	.0855123	2.685442	3.963494	.8486072
#1	.1056717	-.145150	3.182226	.3100620	.1472741	30.45363
#2	.1054704	-.147870	3.184773	.3237953	.1552264	30.72715
#3	.1091040	-.147689	3.179335	.3084436	.1592643	30.97477

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5271403	.0116709	.0174185	253.9450	1.233524	.0832770
Stddev	.0056068	.0003907	.0000900	2.1148	.004621	.0005748
%RSD	1.063621	3.347550	.5167791	.8327971	.3746383	.6902734
#1	.5207029	.0120472	.0175208	251.6748	1.233461	.0828709
#2	.5297631	.0116983	.0173835	254.3008	1.228935	.0830254
#3	.5309550	.0112672	.0173513	255.8593	1.238177	.0839348

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2286944	645.9123	23.01727	49.68624	.6391422	-.018644
Stddev	.0020967	5.1688	.19228	.51910	.0016359	.000880
%RSD	.9168304	.8002308	.8353848	1.044754	.2559491	4.721160
#1	.2262781	640.1354	22.81857	49.09344	.6386027	-.017652
#2	.2297710	647.5019	23.03081	49.90579	.6378442	-.019331
#3	.2300342	650.0996	23.20242	50.05949	.6409797	-.018950

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.027365	.1564128	5.828271	4.006914	4.286381	F -1.38618
Stddev	.030315	.0062955	.007730	.008702	.003580	.01184
%RSD	2.950748	4.024899	.1326349	.2171782	.0835180	.8543948
#1	1.044563	.1623423	5.831039	4.016318	4.284439	-1.39816
#2	1.045170	.1498062	5.834236	4.005276	4.290513	-1.37448
#3	.992362	.1570899	5.819538	3.999147	4.284193	-1.38592

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5266-18DLX2 Acquired: 12/30/2024 21:04:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2903 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0451689	5.129105	6.596744	.0825551	1.119571	-.213817
Stddev	.0002293	.006092	.018785	.0014358	.016683	.002375
%RSD	.5076783	.1187664	.2847631	1.739237	1.490119	1.110908
#1	.0453730	5.133495	6.598706	.0826143	1.101430	-.211138
#2	.0449208	5.131670	6.577055	.0839604	1.123032	-.215665
#3	.0452128	5.122151	6.614471	.0810906	1.134253	-.214649

Elem	Li6707
Units	ppm
Avg	.0128837
Stddev	.0027529
%RSD	21.36715
#1	.0098556
#2	.0135604
#3	.0152352

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1647.636	20832.60	2340.940	1366.148	1867.286
Stddev	6.005	34.65	7.178	1.367	5.771
%RSD	.3644900	.1663111	.3066464	.1000298	.3090343
#1	1649.557	20820.93	2333.456	1364.590	1865.715
#2	1652.446	20871.58	2347.767	1366.712	1873.680
#3	1640.905	20805.30	2341.598	1367.142	1862.465

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5259-12DLX2 Acquired: 12/30/2024 21:08:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0410487	.0020017	.1032533	-.000247	.0063167	36.75294	.2973920
Stddev	.0028402	.0029388	.0010109	.007601	.0057849	.11721	.0023945
%RSD	6.918977	146.8141	.9790802	3082.408	91.58043	.3189212	.8051606
#1	.0411140	.0006816	.1044114	-.005499	.0094959	36.80036	.3000845
#2	.0381764	.0053692	.1025469	-.003709	.0098147	36.83902	.2965900
#3	.0438556	-.000045	.1028018	.008469	-.000361	36.61945	.2955014

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039659	.0021296	447.5727	.0796295	.0919373	.0912863	116.0985
Stddev	.0001371	.0000641	2.1404	.0006643	.0008293	.0024879	.2461
%RSD	3.457012	3.010461	.4782160	.8341909	.9020600	2.725384	.2119914
#1	.0038627	.0020721	449.1511	.0803461	.0910906	.0911008	116.1258
#2	.0041215	.0021178	448.4304	.0795083	.0927480	.0938618	116.3298
#3	.0039135	.0021987	445.1365	.0790343	.0919733	.0888964	115.8398

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.980082	67.79481	.1560311	-.004544	.5093130	.0992221	.4567266
Stddev	.013773	.24945	.0004078	.000441	.0039144	.0052871	.0044755
%RSD	.4621822	.3679461	.2613652	9.704281	.7685570	5.328576	.9799054
#1	2.983134	67.91532	.1560853	-.004792	.5113899	.1022834	.4608108
#2	2.992073	67.96112	.1564092	-.004035	.5047979	.1022660	.4574267
#3	2.965038	67.50799	.1555990	-.004805	.5117513	.0931171	.4519423

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.908013	2.496334	-.237939	.0246651	2.163766	4.091548	.0166429
Stddev	.071479	.004728	.002749	.0007738	.002247	.038645	.0022882
%RSD	1.209860	.1893933	1.155471	3.137341	.1038252	.9445156	13.74884
#1	5.957779	2.497739	-.236874	.0247730	2.163193	4.110517	.0142537
#2	5.826106	2.500201	-.241062	.0238429	2.166244	4.117043	.0188146
#3	5.940154	2.491063	-.235881	.0253792	2.161862	4.047083	.0168604

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5259-12DLX2 Acquired: 12/30/2024 21:08:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6752053	.4375542	.0516295
Stddev	.0043504	.0029441	.0055016
%RSD	.6443042	.6728533	10.65598
#1	.6720122	.4395370	.0482453
#2	.6734434	.4389542	.0579776
#3	.6801603	.4341713	.0486656

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1711.977	21395.01	2427.246	1411.247	1794.023
Stddev	3.932	73.79	18.289	1.879	5.082
%RSD	.2296663	.3448725	.7534783	.1331645	.2832517
#1	1715.365	21422.17	2417.978	1410.540	1798.312
#2	1707.666	21451.36	2415.446	1409.823	1788.411
#3	1712.902	21311.49	2448.313	1413.377	1795.346

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5259-14DLX2 Acquired: 12/30/2024 21:12:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0257297	.0158750	.0522529	-.034082	-.005358	22.28767	.5343548
Stddev	.0033492	.0041541	.0014671	.001480	.002149	.04805	.0003219
%RSD	13.01701	26.16787	2.807637	4.341663	40.10078	.2155909	.0602387
#1	.0289516	.0110783	.0511774	-.035790	-.007734	22.33781	.5342577
#2	.0259712	.0183022	.0516571	-.033284	-.004791	22.24203	.5340926
#3	.0222662	.0182443	.0539241	-.033173	-.003550	22.28315	.5347140

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021861	.0020422	636.9479	.0521352	.0726791	.0817863	69.09924
Stddev	.0000367	.0001520	.4355	.0003949	.0006473	.0056178	.16975
%RSD	1.678184	7.441190	.0683745	.7575469	.8906631	6.868920	.2456547
#1	.0021837	.0019721	637.2931	.0520292	.0733778	.0847858	68.95541
#2	.0022239	.0019380	637.0919	.0525724	.0720997	.0753053	69.05584
#3	.0021507	.0022166	636.4586	.0518041	.0725599	.0852676	69.28647

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.702514	191.7388	.0998536	-.002194	.7244717	.0752231	.2116891
Stddev	.005504	.7007	.0005088	.000961	.0246390	.0032373	.0009575
%RSD	.3232676	.3654313	.5095343	43.79126	3.400967	4.303546	.4523176
#1	1.696164	191.2284	.0995103	-.002571	.7456907	.0762630	.2118205
#2	1.705490	191.4505	.0996124	-.002910	.6974488	.0715937	.2125741
#3	1.705890	192.5377	.1004382	-.001102	.7302756	.0778126	.2106727

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.809960	1.620362	-.124446	.0221179	21.08478	3.381853	.0162210
Stddev	.115897	.002162	.001991	.0006981	.04773	.013048	.0020587
%RSD	3.041939	.1334460	1.599746	3.156453	.2263615	.3858279	12.69138
#1	3.879419	1.617866	-.126600	.0213613	21.11776	3.396485	.0175803
#2	3.874295	1.621678	-.122673	.0227371	21.03005	3.377648	.0172303
#3	3.676167	1.621541	-.124065	.0222554	21.10653	3.371425	.0138525

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5259-14DLX2 Acquired: 12/30/2024 21:12:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28X8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5963156	3.878261	.0383796
Stddev	.0057778	.010296	.0014563
%RSD	.9689143	.2654866	3.794389
#1	.5899144	3.885715	.0399325
#2	.5978880	3.882555	.0381619
#3	.6011445	3.866512	.0370445

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1632.959	20587.88	2339.162	1349.385	1713.719
Stddev	2.458	32.00	10.974	2.906	3.331
%RSD	.1505288	.1554437	.4691257	.2153789	.1943960
#1	1635.225	20566.72	2327.947	1346.421	1716.153
#2	1633.306	20624.70	2339.662	1349.506	1715.081
#3	1630.346	20572.24	2349.878	1352.230	1709.922

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5259-20DLX2 Acquired: 12/30/2024 21:16:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Y4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0345750	.0051322	.0868962	-.001157	.0077393	35.98056	.3194953
Stddev	.0050978	.0018623	.0039299	.003895	.0018177	.07376	.0011171
%RSD	14.74413	36.28542	4.522509	336.5928	23.48622	.2050029	.3496347
#1	.0389139	.0041569	.0913836	.002614	.0063741	36.00578	.3190843
#2	.0289606	.0072796	.0840682	-.000920	.0070413	35.89749	.3186419
#3	.0358504	.0039603	.0852366	-.005165	.0098025	36.03840	.3207596

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036548	.0020840	442.6321	.1009184	.0857032	.0785578	103.7381
Stddev	.0001761	.0000807	1.2965	.0001421	.0008439	.0116285	.3594
%RSD	4.818970	3.874192	.2929126	.1408388	.9846860	14.80245	.3464227
#1	.0037222	.0021745	443.5389	.1007601	.0847627	.0670240	104.0600
#2	.0034550	.0020195	441.1470	.1009600	.0859527	.0902787	103.3504
#3	.0037874	.0020579	443.2103	.1010350	.0863943	.0783707	103.8041

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.248040	91.52643	.1418867	-.003996	.6070770	.0990389	.2669450
Stddev	.005727	.21113	.0002172	.000083	.0078287	.0051073	.0011519
%RSD	.2547351	.2306732	.1530495	2.081019	1.289578	5.156838	.4315200
#1	2.254264	91.56929	.1421010	-.003906	.5984443	.0939811	.2678880
#2	2.242995	91.29716	.1416668	-.004012	.6090701	.1041943	.2656611
#3	2.246862	91.71284	.1418923	-.004070	.6137164	.0989413	.2672859

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.044354	2.080542	-.204917	.0194831	13.95171	4.680108	.0153047
Stddev	.023267	.010955	.003675	.0001246	.02239	.064276	.0008478
%RSD	.3849417	.5265619	1.793358	.6395133	.1605080	1.373396	5.539317
#1	6.040846	2.080564	-.204244	.0193400	13.97164	4.695730	.0150753
#2	6.069177	2.069576	-.201625	.0195676	13.92748	4.609460	.0145953
#3	6.023041	2.091487	-.208882	.0195417	13.95600	4.735133	.0162436

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5259-20DLX2 Acquired: 12/30/2024 21:16:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Y4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5744581	.4362065	.0648738
Stddev	.0061910	.0008231	.0008392
%RSD	1.077705	.1886962	1.293611
#1	.5790810	.4357432	.0654327
#2	.5674244	.4357196	.0639088
#3	.5768689	.4371569	.0652800

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1680.234	21171.59	2374.523	1398.132	1776.844
Stddev	6.495	95.53	17.441	3.123	5.233
%RSD	.3865774	.4512224	.7344987	.2233984	.2945154
#1	1687.675	21214.78	2373.345	1400.285	1781.448
#2	1677.326	21062.09	2392.523	1394.549	1777.932
#3	1675.700	21237.89	2357.701	1399.561	1771.153

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCV050 Acquired: 12/30/2024 21:20:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV050 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.930407	4.755433	24.38187	4.853586	4.817536	405.7120
Stddev	.012680	.017704	.02221	.006347	.002665	1.1653
%RSD	.2571817	.3722803	.0910836	.1307683	.0553172	.2872272
#1	4.919618	4.763208	24.40683	4.858729	4.820540	407.0282
#2	4.944374	4.735172	24.36432	4.855537	4.815454	404.8119
#3	4.927230	4.767919	24.37446	4.846493	4.816616	405.2958

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.08952	.5057314	2.458517	410.8749	15.54501	2.454927
Stddev	.03107	.0017709	.002232	.9893	.07757	.001727
%RSD	.3079492	.3501734	.0907894	.2407879	.4990315	.0703662
#1	10.12533	.5062945	2.460883	412.0156	15.58106	2.456715
#2	10.07357	.5037473	2.456449	410.3569	15.59800	2.453267
#3	10.06967	.5071523	2.458219	410.2520	15.45597	2.454799

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.11072	410.3914	15.09348	406.5694	2.478886	1.270489
Stddev	.01697	1.2363	.05527	1.8722	.004997	.007213
%RSD	.1122846	.3012546	.3661736	.4604811	.2015657	.5677577
#1	15.13001	411.5252	15.14285	408.7105	2.483938	1.274938
#2	15.09813	409.0733	15.03377	405.2403	2.473946	1.274362
#3	15.10401	410.5757	15.10381	405.7575	2.478775	1.262166

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	411.6580	2.496128	14.88302	153.0550	4.840022	F 4.342615
Stddev	2.0127	.008435	.10032	.5002	.009217	.026418
%RSD	.4889211	.3379367	.6740562	.3268316	.1904419	.6083376
#1	413.8177	2.503812	14.94422	153.5571	4.847120	4.357642
#2	409.8348	2.497470	14.93759	152.5566	4.829604	4.312111
#3	411.3214	2.487102	14.76724	153.0512	4.843341	4.358091

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCV050 Acquired: 12/30/2024 21:20:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV050 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.741539	4.896273	4.989297	4.958816	5.035435	4.817609
Stddev	.002921	.005074	.024250	.008498	.014905	.001469
%RSD	.0616049	.1036201	.4860467	.1713659	.2959975	.0304991
#1	4.744570	4.898217	5.002633	4.967723	5.052528	4.816192
#2	4.738742	4.900087	4.961305	4.957930	5.025150	4.819125
#3	4.741304	4.890515	5.003952	4.950797	5.028627	4.817510

Elem	Li6707
Units	ppm
Avg	5.098836
Stddev	.016850
%RSD	.3304710
#1	5.118282
#2	5.088553
#3	5.089674

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1450.215	18782.35	2187.450	1181.685	1623.867
Stddev	1.667	111.06	8.985	7.505	3.376
%RSD	.1149380	.5913116	.4107414	.6351358	.2079259
#1	1448.479	18726.11	2179.399	1176.276	1622.102
#2	1451.803	18710.66	2197.142	1178.525	1627.760
#3	1450.363	18910.28	2185.808	1190.253	1621.740

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCB050 Acquired: 12/30/2024 21:23:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB050 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004040	-.001370	.0019890	.0058435	.0031484	-.005453	.0003322
Stddev	.003737	.001575	.0014023	.0008808	.0025574	.014416	.0002500
%RSD	92.48369	114.9977	70.50250	15.07339	81.22782	264.3788	75.25992
#1	-.008346	-.002566	.0011955	.0054665	.0002673	-.002279	.0000851
#2	-.001650	.000415	.0011634	.0068500	.0051497	-.021191	.0005850
#3	-.002124	-.001958	.0036082	.0052139	.0040283	.007111	.0003263

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002629	.0002408	.0315557	.0015187	.0002469	.0046798	.0331732
Stddev	.0001338	.0000635	.0167619	.0003598	.0003221	.0169227	.0209174
%RSD	50.90596	26.36111	53.11856	23.69057	130.4840	361.6109	63.05512
#1	.0001087	.0001908	.0124726	.0018508	.0000356	.0241286	.0149953
#2	.0003306	.0002195	.0382974	.0015687	.0006176	-.003405	.0284886
#3	.0003493	.0003122	.0438971	.0011365	.0000874	-.006684	.0560358

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014178	.1034333	-.000251	.0011397	.0496476	-.005387	.0026383
Stddev	.0013226	.1081158	.000504	.0017556	.0414117	.015561	.0003657
%RSD	93.29096	104.5271	200.6833	154.0462	83.41121	288.8813	13.86144
#1	.0028277	.1558833	-.000222	.0030770	.0755412	.012239	.0029454
#2	.0002045	.1753195	-.000769	-.000346	.0715156	-.011174	.0027357
#3	.0012211	-.020903	.000237	.000688	.0018860	-.017225	.0022338

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0735260	-.001480	.0110022	.0003556	.0002746	.0006148	-.000521
Stddev	.0634451	.001999	.0037062	.0002370	.0064710	.0003893	.000985
%RSD	86.28931	135.0790	33.68658	66.63705	2356.769	63.31914	188.9918
#1	.0321205	-.003623	.0110308	.0005939	.0038421	.0007603	-.001512
#2	.0418889	-.001149	.0146940	.0001200	-.007195	.0009105	-.000510
#3	.1465687	.000333	.0072817	.0003529	.004177	.0001737	.000458

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCB050 Acquired: 12/30/2024 21:23:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB050 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.001931	.0003255	.0078899
Stddev	.003138	.0004216	.0050451
%RSD	162.5736	129.5471	63.94317
#1	.000594	.0006628	.0102695
#2	-.005444	-.000147	.0020952
#3	-.000941	.000461	.0113051

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1651.730	20850.48	2251.576	1384.177	1947.192
Stddev	6.904	94.67	5.754	5.521	7.634
%RSD	.4179809	.4540331	.2555520	.3988694	.3920541
#1	1646.487	20742.01	2246.961	1378.163	1938.630
#2	1649.150	20893.01	2249.743	1385.350	1949.655
#3	1659.552	20916.43	2258.023	1389.016	1953.290

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5259-21DLX2 Acquired: 12/30/2024 21:27:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Y5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0472713	-.001421	.0846425	.0136016	.0067599	40.21872	.4002722
Stddev	.0019219	.003701	.0032681	.0027167	.0017306	.14471	.0026561
%RSD	4.065731	260.5287	3.861020	19.97337	25.60110	.3597986	.6635767
#1	.0494805	-.000156	.0839746	.0158917	.0060364	40.28333	.4030257
#2	.0459840	-.005588	.0881929	.0143132	.0087348	40.31985	.4000654
#3	.0463494	.001483	.0817600	.0105999	.0055084	40.05296	.3977255

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041700	.0021671	469.1640	.0797140	.0951847	.1035088	126.6536
Stddev	.0001817	.0001565	1.9314	.0001737	.0005556	.0053117	.6402
%RSD	4.358180	7.221764	.4116775	.2179137	.5837354	5.131653	.5054864
#1	.0040613	.0023234	469.8347	.0796332	.0952900	.1093803	127.0251
#2	.0040690	.0020104	470.6707	.0795954	.0956802	.0990372	127.0214
#3	.0043799	.0021675	466.9866	.0799134	.0945840	.1021089	125.9144

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.562981	87.31283	.1637734	-.006056	.7673971	.1038018	.2965723
Stddev	.012715	.74950	.0019455	.000653	.0224742	.0112209	.0030604
%RSD	.4961020	.8584098	1.187910	10.78162	2.928624	10.80994	1.031913
#1	2.565184	87.43352	.1627333	-.006594	.7728895	.0916688	.2978745
#2	2.574451	87.99467	.1660178	-.005330	.7866160	.1138056	.2930762
#3	2.549309	86.51031	.1625690	-.006245	.7426859	.1059309	.2987661

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.727975	2.360819	-.244155	.0428434	15.36509	4.339354	.0214743
Stddev	.096861	.006641	.003741	.0010481	.01330	.034299	.0011498
%RSD	1.439681	.2813109	1.532162	2.446382	.0865398	.7904180	5.354453
#1	6.628651	2.353567	-.244365	.0428693	15.35508	4.366907	.0202856
#2	6.822169	2.366605	-.247787	.0438784	15.36001	4.350216	.0225809
#3	6.733106	2.362284	-.240314	.0417826	15.38018	4.300939	.0215563

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5259-21DLX2 Acquired: 12/30/2024 21:27:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Y5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.7330896	.5536875	.0800161
Stddev	.0033373	.0012088	.0040159
%RSD	.4552367	.2183161	5.018880
#1	.7366577	.5531788	.0794734
#2	.7325661	.5550675	.0762991
#3	.7300449	.5528163	.0842757

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1696.449	21428.75	2405.428	1414.515	1772.072
Stddev	4.408	17.18	17.436	8.209	2.121
%RSD	.2598657	.0801559	.7248772	.5803419	.1196917
#1	1699.423	21420.00	2392.753	1407.429	1774.480
#2	1691.384	21417.71	2398.217	1423.510	1770.481
#3	1698.540	21448.54	2425.313	1412.605	1771.256

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-02DLX2 Acquired: 12/30/2024 21:31:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0620528	-.004552	.0797783	.0006889	.0070645	35.99263	.2725931
Stddev	.0063219	.001033	.0018143	.0102650	.0024089	.08928	.0014902
%RSD	10.18790	22.68752	2.274132	1490.057	34.09908	.2480564	.5466817
#1	.0589162	-.003660	.0806169	.0088032	.0042832	35.93683	.2731054
#2	.0693296	-.004314	.0776965	.0041142	.0084893	35.94546	.2737596
#3	.0579125	-.005683	.0810217	-.010851	.0084211	36.09560	.2709143

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038469	.0016051	528.5826	.0633168	.0834776	.0969392	117.2804
Stddev	.0002872	.0000917	1.3788	.0000917	.0001994	.0103807	.2157
%RSD	7.464891	5.714384	.2608413	.1448077	.2388350	10.70848	.1839027
#1	.0035694	.0014993	528.1853	.0633964	.0837072	.0872978	117.4484
#2	.0038283	.0016535	527.4461	.0632165	.0833779	.1079277	117.3556
#3	.0041429	.0016625	530.1164	.0633374	.0833478	.0955922	117.0372

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.619622	77.36733	.1371995	-.004442	.6425915	.0787613	.2543927
Stddev	.003650	.18067	.0003919	.000434	.0120451	.0065343	.0016320
%RSD	.2253869	.2335160	.2856096	9.780490	1.874450	8.296288	.6415240
#1	1.617174	77.57518	.1373958	-.003944	.6458127	.0860928	.2562264
#2	1.623818	77.27888	.1374544	-.004636	.6526984	.0735516	.2530997
#3	1.617874	77.24794	.1367483	-.004745	.6292633	.0766396	.2538519

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.634520	2.480943	-.237681	.0213714	.9443148	5.289131	.0183065
Stddev	.041980	.004026	.003861	.0008050	.0033315	.033953	.0002344
%RSD	.7450564	.1622902	1.624291	3.766803	.3527962	.6419318	1.280399
#1	5.613762	2.485335	-.241502	.0215189	.9407733	5.321602	.0183423
#2	5.606963	2.480070	-.233782	.0220925	.9447848	5.291921	.0180563
#3	5.682836	2.477425	-.237758	.0205029	.9473864	5.253869	.0185210

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-02DLX2 Acquired: 12/30/2024 21:31:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8099812	.6556978	.0546099
Stddev	.0044953	.0043532	.0033777
%RSD	.5549861	.6639095	6.185173
#1	.8113769	.6532449	.0531739
#2	.8049536	.6531244	.0521874
#3	.8136130	.6607240	.0584683

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1699.797	21469.23	2386.188	1413.632	1773.067
Stddev	2.184	141.19	12.114	9.484	2.095
%RSD	.1284712	.6576617	.5076679	.6708608	.1181445
#1	1702.053	21427.84	2373.874	1405.327	1775.467
#2	1699.643	21626.50	2386.598	1423.965	1771.609
#3	1697.694	21353.36	2398.091	1411.603	1772.124

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-03DLX2 Acquired: 12/30/2024 21:35:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0152049	.0256635	.0516055	-.029314	-.007544	23.66781	.6052085
Stddev	.0062026	.0023910	.0012159	.009241	.001679	.06333	.0019913
%RSD	40.79329	9.316790	2.356227	31.52301	22.26284	.2675737	.3290344
#1	.0179780	.0239659	.0530074	-.025240	-.008693	23.59549	.6029584
#2	.0195371	.0283979	.0509710	-.022811	-.005616	23.71337	.6059238
#3	.0080996	.0246267	.0508381	-.039892	-.008322	23.69456	.6067435

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023656	.0019266	798.9207	.0523173	.0701217	.0564589	58.65355
Stddev	.0000826	.0001810	1.0124	.0007460	.0006982	.0099661	.22730
%RSD	3.493343	9.397244	.1267191	1.425871	.9957454	17.65200	.3875353
#1	.0023264	.0021355	797.8874	.0519234	.0699016	.0478826	58.52527
#2	.0024605	.0018164	798.9639	.0518509	.0709035	.0541018	58.91599
#3	.0023098	.0018278	799.9108	.0531777	.0695601	.0673923	58.51939

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.334500	328.4756	.0944756	-.002377	.8358044	.0858686	.1810534
Stddev	.005285	.4297	.0006302	.001075	.0216423	.0068611	.0004912
%RSD	.3960360	.1308241	.6670883	45.22483	2.589398	7.990280	.2713139
#1	1.340387	327.9919	.0939734	-.001258	.8460904	.0795216	.1813937
#2	1.332948	328.6219	.0942705	-.003401	.8109374	.0931484	.1812763
#3	1.330164	328.8132	.0951828	-.002471	.8503855	.0849356	.1804903

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.305930	1.420145	-.098990	.0257616	12.27692	4.688773	.0144577
Stddev	.099077	.015993	.002988	.0001837	.01267	.041019	.0031299
%RSD	2.300932	1.126174	3.018010	.7130623	.1031624	.8748280	21.64908
#1	4.418821	1.415499	-.098354	.0259317	12.28064	4.716574	.0126363
#2	4.233423	1.406988	-.096371	.0257864	12.26281	4.641663	.0180718
#3	4.265548	1.437946	-.102244	.0255668	12.28730	4.708081	.0126649

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-03DLX2 Acquired: 12/30/2024 21:35:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Q8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.6108719	7.050066	.0455273
Stddev	.0013332	.015134	.0010009
%RSD	.2182416	.2146652	2.198374
#1	.6115448	7.034001	.0444130
#2	.6117345	7.064055	.0463499
#3	.6093364	7.052143	.0458190

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1595.266	20166.36	2301.545	1319.423	1659.848
Stddev	6.329	59.95	10.373	3.552	6.286
%RSD	.3967265	.2972968	.4506925	.2692431	.3787067
#1	1594.484	20205.19	2298.680	1317.358	1661.440
#2	1601.950	20097.31	2313.049	1317.387	1665.185
#3	1589.365	20196.58	2292.906	1323.525	1652.919

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-08DLX2 Acquired: 12/30/2024 21:39:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0436121	-.018080	.2487736	.0388478	.0202248	44.17257	.4651570
Stddev	.0009179	.002506	.0004843	.0038496	.0027029	.03297	.0010411
%RSD	2.104765	13.86020	.1946691	9.909481	13.36410	.0746465	.2238246
#1	.0446679	-.018746	.2482194	.0401509	.0176520	44.21060	.4644300
#2	.0430030	-.020186	.2491149	.0345158	.0199810	44.15522	.4663497
#3	.0431654	-.015309	.2489867	.0418767	.0230412	44.15190	.4646912

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051728	.0035153	444.3647	.6193211	.0832892	.0946451	181.2196
Stddev	.0001534	.0001761	.3899	.0019825	.0006061	.0101688	.5515
%RSD	2.966155	5.009200	.0877422	.3201033	.7277596	10.74408	.3043263
#1	.0053019	.0033248	444.8134	.6197019	.0828037	.0947800	181.7550
#2	.0050031	.0036722	444.1729	.6210856	.0830952	.0844096	181.2505
#3	.0052133	.0035488	444.1079	.6171759	.0839686	.1047458	180.6533

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.62425	135.2717	.2621750	-.005116	.8142329	.2157034	.7485596
Stddev	.00702	.4700	.0013548	.000375	.0181501	.0038198	.0030849
%RSD	.0603882	.3474609	.5167427	7.329022	2.229104	1.770873	.4121163
#1	11.63222	135.8048	.2623907	-.005075	.8073543	.2200351	.7521199
#2	11.62158	134.9171	.2634090	-.004764	.8005276	.2142577	.7466804
#3	11.61897	135.0931	.2607253	-.005510	.8348169	.2128175	.7468784

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.725057	2.769844	-.355375	.0197220	4.149095	6.053384	.0325622
Stddev	.010478	.010644	.005571	.0003704	.001892	.050958	.0014179
%RSD	.1558068	.3842848	1.567684	1.877926	.0455889	.8418049	4.354529
#1	6.729988	2.778662	-.359787	.0195144	4.151154	6.094530	.0341238
#2	6.732161	2.758021	-.349115	.0195020	4.148696	5.996384	.0313553
#3	6.713024	2.772849	-.357222	.0201496	4.147435	6.069239	.0322076

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-08DLX2 Acquired: 12/30/2024 21:39:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.167871	.7497202	.0600868
Stddev	.011792	.0022764	.0038436
%RSD	1.009710	.3036305	6.396788
#1	1.155620	.7474179	.0587211
#2	1.168848	.7497731	.0571126
#3	1.179143	.7519697	.0644268

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1675.154	21214.72	2397.722	1395.228	1766.680
Stddev	4.487	76.88	16.762	8.426	7.511
%RSD	.2678391	.3624119	.6990760	.6039413	.4251341
#1	1680.056	21177.37	2382.237	1385.963	1774.901
#2	1674.157	21163.64	2415.520	1397.288	1764.960
#3	1671.250	21303.14	2395.408	1402.433	1760.178

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-10DLX2 Acquired: 12/30/2024 21:43:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0655687	-.103169	.4832778	.2046957	.0857918	34.69360
Stddev	.0016019	.003566	.0034799	.0059507	.0036187	.03331
%RSD	2.443093	3.456936	.7200712	2.907115	4.217947	.0960100
#1	.0639209	-.107228	.4868896	.2110749	.0883663	34.71633
#2	.0656647	-.100536	.4829970	.1992946	.0873548	34.65537
#3	.0671204	-.101742	.4799468	.2037177	.0816543	34.70911

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5667293	.0083298	.0066299	638.1728	.8336270	.0838528
Stddev	.0017236	.0000897	.0001014	1.2776	.0027488	.0006587
%RSD	.3041381	1.076980	1.530046	.2002014	.3297381	.7855615
#1	.5687019	.0084100	.0067275	639.6091	.8367271	.0842896
#2	.5655134	.0083466	.0065250	637.1629	.8314873	.0830952
#3	.5659726	.0082329	.0066372	637.7464	.8326666	.0841737

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1204210	484.1999	19.04694	245.0276	.2690713	-.013950
Stddev	.0145137	.9846	.05544	.6363	.0006859	.001595
%RSD	12.05244	.2033470	.2910910	.2597031	.2549251	11.43625
#1	.1113763	485.1892	19.08574	245.4564	.2686850	-.015444
#2	.1371618	483.2201	18.98344	244.2965	.2686656	-.012269
#3	.1127248	484.1903	19.07164	245.3300	.2698633	-.014138

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.031115	.3282792	1.781497	3.098682	2.920257	F -1.11386
Stddev	.008327	.0051153	.003343	.131242	.005439	.00345
%RSD	.8075713	1.558217	.1876273	4.235401	.1862435	.3098428
#1	1.021994	.3274353	1.785348	2.975409	2.926182	-1.11113
#2	1.038309	.3337639	1.779802	3.083983	2.915491	-1.11773
#3	1.033043	.3236383	1.779342	3.236654	2.919097	-1.11271

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-10DLX2 Acquired: 12/30/2024 21:43:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143375	5.781396	3.760924	.0510969	1.177303	1.553200
Stddev	.0002772	.015498	.018419	.0007092	.009074	.004531
%RSD	1.933455	.2680665	.4897515	1.387923	.7707020	.2917244
#1	.0141682	5.792871	3.781246	.0502847	1.186367	1.558369
#2	.0141870	5.787550	3.745329	.0514120	1.168220	1.549914
#3	.0146575	5.763766	3.756196	.0515938	1.177323	1.551318

Elem	Li6707
Units	ppm
Avg	.0354645
Stddev	.0034974
%RSD	9.861785
#1	.0315827
#2	.0383701
#3	.0364406

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1610.925	20516.68	2311.629	1343.515	1739.902
Stddev	6.574	54.40	13.853	1.179	5.959
%RSD	.4080749	.2651723	.5992740	.0877286	.3424711
#1	1616.428	20456.31	2295.981	1343.146	1746.669
#2	1612.701	20561.90	2322.326	1344.834	1737.596
#3	1603.645	20531.84	2316.580	1342.566	1735.442

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-11DLX2 Acquired: 12/30/2024 21:47:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0298745	.0055538	.1342092	-.004738	.0036748	36.41970	.2768377
Stddev	.0036547	.0053823	.0021739	.009655	.0000663	.23575	.0036001
%RSD	12.23352	96.91181	1.619780	203.7708	1.804584	.6473266	1.300434
#1	.0340011	.0020816	.1352301	.005837	.0037189	36.38060	.2765754
#2	.0285762	.0028259	.1317127	-.013083	.0037070	36.67256	.2805617
#3	.0270461	.0117539	.1356847	-.006968	.0035985	36.20594	.2733759

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038329	.0037703	455.6713	.1548305	.0790255	.0871220	105.0463
Stddev	.0000456	.0001758	2.7886	.0004926	.0000824	.0041519	.8745
%RSD	1.188412	4.662573	.6119866	.3181575	.1043253	4.765643	.8324733
#1	.0038508	.0037956	455.4129	.1548492	.0789304	.0918168	104.8201
#2	.0038667	.0039320	458.5802	.1543287	.0790768	.0856156	106.0117
#3	.0037811	.0035832	453.0209	.1553134	.0790692	.0839335	104.3072

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.803675	160.9573	.1313899	-.003167	.6479362	.1104206	.3946864
Stddev	.028370	1.3764	.0005198	.000668	.0209918	.0108570	.0033896
%RSD	.7458487	.8551483	.3956300	21.09884	3.239794	9.832429	.8588123
#1	3.791911	160.6046	.1319693	-.002484	.6710391	.1221085	.3973552
#2	3.836034	162.4757	.1312360	-.003820	.6427365	.1085032	.3958316
#3	3.783079	159.7915	.1309645	-.003199	.6300329	.1006499	.3908726

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.333094	2.253455	-.218318	.0135274	9.090645	5.668397	.0118866
Stddev	.091496	.018776	.002582	.0004724	.051884	.032812	.0012703
%RSD	2.111554	.8332011	1.182611	3.492288	.5707380	.5788636	10.68716
#1	4.262696	2.254782	-.218088	.0131646	9.133522	5.695421	.0125143
#2	4.436517	2.271533	-.215859	.0140616	9.105444	5.677884	.0127208
#3	4.300069	2.234052	-.221007	.0133560	9.032970	5.631887	.0104246

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-11DLX2 Acquired: 12/30/2024 21:47:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3802295	.6534186	.0525068
Stddev	.0035621	.0038711	.0023627
%RSD	.9368346	.5924442	4.499760
#1	.3839848	.6503183	.0500911
#2	.3798050	.6577575	.0526167
#3	.3768986	.6521801	.0548127

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1664.131	21106.66	2336.836	1386.828	1758.951
Stddev	8.185	121.08	22.671	11.165	7.990
%RSD	.4918657	.5736694	.9701694	.8050443	.4542533
#1	1658.649	21100.81	2331.109	1386.420	1754.589
#2	1660.205	20988.61	2317.577	1375.873	1754.090
#3	1673.540	21230.56	2361.821	1398.191	1768.172

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-12DLX2 Acquired: 12/30/2024 21:50:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0359000	-.006188	.1704069	.0353143	.0157568	35.89278	.3943828
Stddev	.0032786	.002379	.0014222	.0072221	.0029279	.03800	.0016666
%RSD	9.132663	38.44543	.8345958	20.45098	18.58158	.1058670	.4225922
#1	.0393691	-.008439	.1706041	.0330891	.0191340	35.93653	.3928787
#2	.0354783	-.003699	.1717201	.0294667	.0139326	35.86798	.3961745
#3	.0328527	-.006426	.1688963	.0433872	.0142038	35.87384	.3940953

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033945	.0023001	482.9991	.7824974	.0772708	.0997968	162.4807
Stddev	.0000308	.0001549	.7230	.0023379	.0005975	.0080647	.3571
%RSD	.9066548	6.735703	.1496883	.2987784	.7732474	8.081079	.2197921
#1	.0034258	.0021683	483.4784	.7813218	.0767933	.0938051	162.5253
#2	.0033643	.0022614	483.3515	.7851898	.0770783	.0966190	162.8134
#3	.0033934	.0024708	482.1675	.7809806	.0779408	.1089662	162.1033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.04905	177.9685	.2445837	-.004754	.6190464	.2679697	.4537720
Stddev	.03543	.2095	.0010291	.000590	.0259995	.0094868	.0024845
%RSD	.1962987	.1176935	.4207485	12.41262	4.199924	3.540266	.5475259
#1	18.07737	178.0329	.2448188	-.005242	.5945507	.2788557	.4559455
#2	18.06044	178.1381	.2434575	-.004921	.6463257	.2614678	.4543068
#3	18.00932	177.7344	.2454750	-.004098	.6162629	.2635855	.4510636

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.312877	2.660731	-.333755	.0157389	5.002442	6.198059	.0195721
Stddev	.109105	.009357	.000404	.0005271	.018361	.018130	.0024084
%RSD	3.293372	.3516659	.1209450	3.349248	.3670357	.2925115	12.30551
#1	3.279865	2.654129	-.333733	.0153009	4.987870	6.211300	.0201636
#2	3.434676	2.671439	-.334170	.0163239	4.996392	6.205482	.0216297
#3	3.224090	2.656624	-.333363	.0155920	5.023064	6.177396	.0169230

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-12DLX2 Acquired: 12/30/2024 21:50:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.9866734	.6512038	.0440762
Stddev	.0055309	.0008807	.0026529
%RSD	.5605622	.1352452	6.018976
#1	.9912820	.6519622	.0410742
#2	.9805400	.6514114	.0450491
#3	.9881981	.6502379	.0461054

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1640.869	20918.37	2337.432	1370.011	1746.729
Stddev	4.655	83.42	6.244	4.660	4.579
%RSD	.2836790	.3987947	.2671300	.3401483	.2621380
#1	1643.251	20968.62	2338.740	1370.990	1749.558
#2	1643.851	20822.07	2330.638	1364.939	1749.183
#3	1635.505	20964.42	2342.919	1374.104	1741.447

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-13DLX2 Acquired: 12/30/2024 21:54:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0809531	-.082649	2.031196	.2035347	.0852783	54.95340
Stddev	.0031166	.005230	.004702	.0096230	.0042701	.41484
%RSD	3.849867	6.327512	.2315073	4.727921	5.007206	.7548869
#1	.0845408	-.079964	2.027373	.1970053	.0810867	54.64927
#2	.0789159	-.088675	2.029768	.1990131	.0896227	54.78497
#3	.0794025	-.079307	2.036447	.2145857	.0851254	55.42596

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7389446	.0088850	.0140609	441.4162	1.505693	.0945890
Stddev	.0040573	.0001115	.0001231	2.0682	.001524	.0012731
%RSD	.5490608	1.255211	.8752537	.4685417	.1012452	1.345916
#1	.7383303	.0087611	.0140693	440.3282	1.505999	.0945256
#2	.7352296	.0089774	.0139339	440.1191	1.504038	.0933488
#3	.7432740	.0089165	.0141796	443.8013	1.507041	.0958926

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3034629	452.2030	F 31.65503	87.40918	.5606803	-.013054
Stddev	.0063102	3.1804	.18670	.53532	.0011045	.001480
%RSD	2.079394	.7033111	.5897925	.6124294	.1969946	11.34107
#1	.2961817	449.4634	31.53674	87.48640	.5604347	-.014620
#2	.3073414	451.4548	31.55809	86.83944	.5618870	-.012863
#3	.3068655	455.6908	31.87025	87.90169	.5597193	-.011678

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.343388	.4889409	4.217494	6.731705	4.946280	-.926882
Stddev	.013211	.0181783	.005370	.119754	.008968	.022281
%RSD	.9834028	3.717894	.1273244	1.778948	.1813098	2.403826
#1	1.331925	.4877981	4.223486	6.770866	4.956616	-.950078
#2	1.340404	.4713610	4.213118	6.597274	4.940570	-.905646
#3	1.357836	.5076637	4.215879	6.826975	4.941653	-.924924

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-13DLX2 Acquired: 12/30/2024 21:54:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0315703	5.990794	6.920368	.0524611	1.997491	.6173681
Stddev	.0009074	.026179	.083814	.0004456	.013478	.0012652
%RSD	2.874368	.4369843	1.211122	.8493453	.6747699	.2049337
#1	.0325051	6.014308	6.998646	.0519507	1.989120	.6187611
#2	.0306930	5.962586	6.831942	.0527728	1.990314	.6162904
#3	.0315129	5.995490	6.930515	.0526597	2.013039	.6170528

Elem	Li6707
Units	ppm
Avg	.0656923
Stddev	.0018724
%RSD	2.850325
#1	.0637139
#2	.0659261
#3	.0674368

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1671.922	21264.29	2381.973	1394.644	1806.580
Stddev	5.905	63.23	25.898	5.500	5.286
%RSD	.3532022	.2973454	1.087258	.3943990	.2926161
#1	1671.731	21194.25	2354.591	1389.005	1807.827
#2	1677.920	21317.16	2406.075	1399.995	1811.131
#3	1666.114	21281.47	2385.251	1394.932	1800.781

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-14DLX2 Acquired: 12/30/2024 21:58:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0989572	-.151520	2.083272	.3447981	.1457724	41.27661
Stddev	.0013153	.008851	.004644	.0183992	.0083482	1.39151
%RSD	1.329206	5.841683	.2229134	5.336226	5.726849	3.371177
#1	.0996554	-.152781	2.084761	.3638433	.1462542	41.96431
#2	.0974400	-.142105	2.078066	.3271213	.1371938	39.67515
#3	.0997762	-.159673	2.086988	.3434298	.1538693	42.19038

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6211474	.0111185	.0166347	408.0440	2.179901	.0778564
Stddev	.0230896	.0004327	.0004649	13.5430	.008681	.0010259
%RSD	3.717246	3.891878	2.794862	3.319004	.3982366	1.317691
#1	.6334021	.0111818	.0163096	414.6860	2.177794	.0787231
#2	.5945141	.0106576	.0171673	392.4622	2.189442	.0781225
#3	.6355260	.0115161	.0164273	416.9836	2.172468	.0767237

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1720125	704.6971	F 46.67829	73.52433	.5143280	-.025220
Stddev	.0056276	23.6323	1.56157	2.43938	.0006919	.002511
%RSD	3.271606	3.353544	3.345388	3.317790	.1345229	9.958395
#1	.1673068	716.4446	47.42436	74.63154	.5149510	-.023938
#2	.1704843	677.4930	44.88363	70.72771	.5144495	-.028113
#3	.1782463	720.1536	47.72689	75.21376	.5135834	-.023608

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.483725	.5846944	6.686058	4.125433	4.805451	F -1.55689
Stddev	.060162	.0164831	.015625	.357613	.016156	.04345
%RSD	4.054817	2.819102	.2336932	8.668495	.3362074	2.790566
#1	1.527128	.5852182	6.680695	4.093017	4.790522	-1.58103
#2	1.415049	.5679556	6.703658	3.785131	4.822604	-1.50673
#3	1.508998	.6009094	6.673821	4.498150	4.803227	-1.58291

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-14DLX2 Acquired: 12/30/2024 21:58:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0318705	4.395835	6.650357	.1043076	3.046175	.2379554
Stddev	.0001500	.012505	.216950	.0017369	.102032	.0085759
%RSD	.4706342	.2844799	3.262234	1.665147	3.349515	3.603986
#1	.0320437	4.384817	6.746970	.1032026	3.088250	.2414057
#2	.0317818	4.393260	6.401883	.1034106	2.929833	.2281917
#3	.0317861	4.409427	6.802218	.1063096	3.120441	.2442687

Elem	Li6707
Units	ppm
Avg	.0285478
Stddev	.0024739
%RSD	8.665985
#1	.0292964
#2	.0257861
#3	.0305610

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1609.552	20407.64	2346.748	1333.894	1812.440
Stddev	4.548	113.14	69.268	8.653	4.571
%RSD	.2825361	.5544162	2.951677	.6487034	.2521874
#1	1607.109	20383.81	2307.020	1331.536	1808.137
#2	1606.748	20308.30	2426.732	1326.664	1811.945
#3	1614.799	20530.79	2306.494	1343.482	1817.238

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-15DLX2 Acquired: 12/30/2024 22:02:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0801370	-.099575	1.603064	.2095568	.0958661	54.18059
Stddev	.0024845	.006529	.002218	.0066471	.0056738	2.30199
%RSD	3.100301	6.556661	.1383385	3.171964	5.918500	4.248742
#1	.0787232	-.093030	1.604893	.2030497	.0896733	51.90536
#2	.0830058	-.099609	1.603702	.2092851	.1008144	54.12797
#3	.0786821	-.106088	1.600598	.2163355	.0971105	56.50844

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5141317	.0095931	.0119745	352.1083	1.965954	.0803627
Stddev	.0224418	.0000291	.0005512	15.4188	.008605	.0004715
%RSD	4.364986	.3027971	4.603531	4.378987	.4377222	.5866621
#1	.4923915	.0095619	.0126077	336.4600	1.974156	.0798557
#2	.5127889	.0096194	.0117143	352.5780	1.956996	.0804444
#3	.5372147	.0095980	.0116016	367.2869	1.966711	.0807879

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1768318	479.6143	28.39859	63.98487	.4506056	-.016000
Stddev	.0048138	19.9297	1.22858	2.56575	.0010449	.001633
%RSD	2.722252	4.155366	4.326194	4.009936	.2318809	10.20561
#1	.1721417	460.0272	27.19320	61.37336	.4496280	-.017885
#2	.1765934	478.9457	28.35346	64.07897	.4517067	-.015057
#3	.1817604	499.8699	29.64911	66.50227	.4504819	-.015057

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.543069	.4078499	4.776826	7.009490	3.633148	F -1.02071
Stddev	.049743	.0189953	.011219	.540103	.008780	.03805
%RSD	3.223668	4.657428	.2348727	7.705319	.2416736	3.728095
#1	1.488460	.3868974	4.788651	6.518217	3.642955	-.98147
#2	1.554952	.4127077	4.766331	6.922409	3.626017	-1.02321
#3	1.585794	.4239446	4.775497	7.587842	3.630473	-1.05745

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-15DLX2 Acquired: 12/30/2024 22:02:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0332107	3.654614	5.771964	.0751159	2.243606	.4070586
Stddev	.0006769	.007177	.210810	.0031025	.096890	.0202247
%RSD	2.038195	.1963695	3.652306	4.130228	4.318476	4.968509
#1	.0327977	3.650876	5.563411	.0754851	2.149027	.3850983
#2	.0328425	3.662888	5.767521	.0718453	2.239140	.4111577
#3	.0339919	3.650078	5.984960	.0780172	2.342652	.4249198

Elem	Li6707
Units	ppm
Avg	.0555015
Stddev	.0039650
%RSD	7.143906
#1	.0521489
#2	.0544776
#3	.0598780

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1645.795	20827.53	2419.693	1362.461	1812.400
Stddev	2.677	71.44	85.629	1.653	4.601
%RSD	.1626630	.3429894	3.538828	.1213058	.2538389
#1	1642.707	20797.19	2509.065	1364.212	1807.424
#2	1647.218	20909.13	2411.636	1362.243	1813.277
#3	1647.461	20776.27	2338.377	1360.928	1816.498

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-16DLX2 Acquired: 12/30/2024 22:06:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0746995	-.080025	1.935774	.1894079	.0788561	67.49574	.6709631
Stddev	.0044319	.006231	.008160	.0098367	.0058930	.50452	.0048464
%RSD	5.932992	7.786646	.4215206	5.193371	7.473063	.7474829	.7223006
#1	.0794210	-.082599	1.936148	.1856837	.0720753	67.30788	.6722380
#2	.0706292	-.072919	1.927434	.1819771	.0817545	67.11211	.6656067
#3	.0740481	-.084557	1.943741	.2005628	.0827386	68.06724	.6750446

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136216	.0114788	436.5258	1.478713	.0812625	.1828757	425.0692
Stddev	.0003201	.0002047	4.1576	.006333	.0002025	.0104183	3.7157
%RSD	2.349794	1.783379	.9524384	.4282775	.2492096	5.696910	.8741347
#1	.0139848	.0116108	436.0992	1.479425	.0814836	.1708998	424.8221
#2	.0133809	.0115825	432.5980	1.472054	.0810860	.1898500	421.4833
#3	.0134989	.0112430	440.8804	1.484660	.0812179	.1878774	428.9023

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.70454	106.8619	.5582515	-.011926	1.587650	.2878696	4.039165
Stddev	.18947	.8244	.0002757	.000629	.031475	.0067241	.039679
%RSD	.8729313	.7714336	.0493920	5.276151	1.982464	2.335830	.9823608
#1	21.69457	106.9869	.5585084	-.012054	1.622481	.2830425	4.081775
#2	21.52026	105.9821	.5582860	-.012481	1.561249	.2850165	4.003274
#3	21.89880	107.6165	.5579602	-.011242	1.579219	.2955499	4.032446

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.419586	3.168529	-.806927	.0448185	5.022106	6.557522	.0691507
Stddev	.117263	.004791	.004641	.0010207	.013149	.062082	.0019901
%RSD	1.826642	.1512006	.5751518	2.277474	.2618164	.9467333	2.877964
#1	6.335260	3.163631	-.811908	.0436399	5.032705	6.598127	.0711096
#2	6.553496	3.173205	-.802724	.0454156	5.007392	6.486057	.0692119
#3	6.370003	3.168752	-.806149	.0454001	5.026220	6.588382	.0671307

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-16DLX2 Acquired: 12/30/2024 22:06:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.579061	.5568599	.0673977
Stddev	.019972	.0063046	.0064160
%RSD	1.264827	1.132167	9.519658
#1	1.580248	.5550162	.0601081
#2	1.558521	.5516827	.0698975
#3	1.598413	.5638808	.0721877

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1720.003	21763.29	2455.877	1425.373	1793.207
Stddev	4.664	30.64	18.488	10.306	4.615
%RSD	.2711503	.1407721	.7528002	.7230574	.2573707
#1	1716.794	21754.17	2442.709	1413.939	1789.387
#2	1725.353	21797.46	2477.013	1433.948	1798.335
#3	1717.862	21738.26	2447.908	1428.232	1791.899

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-17DLX2 Acquired: 12/30/2024 22:09:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0691773	-.074282	1.849179	.1780454	.0755592	64.74697	.6429524
Stddev	.0036140	.004032	.008324	.0055563	.0034827	.15768	.0031946
%RSD	5.224282	5.427813	.4501473	3.120715	4.609218	.2435401	.4968605
#1	.0732973	-.070780	1.849403	.1731107	.0740210	64.67970	.6425664
#2	.0665428	-.073375	1.840746	.1840637	.0731105	64.63407	.6399684
#3	.0676917	-.078690	1.857390	.1769619	.0795462	64.92713	.6463225

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129308	.0110097	416.7298	1.415950	.0785036	.1751125	406.6037
Stddev	.0000306	.0002434	1.0992	.000508	.0008385	.0030579	.9172
%RSD	.2366873	2.210886	.2637655	.0358935	1.068168	1.746220	.2255805
#1	.0129488	.0107820	416.6080	1.416104	.0787127	.1775510	406.0783
#2	.0128955	.0109810	415.6966	1.415382	.0775804	.1716817	406.0701
#3	.0129483	.0112662	417.8848	1.416363	.0792179	.1761047	407.6628

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.75424	102.5534	.5336907	-.013078	1.531801	.2717231	3.849011
Stddev	.03902	.0990	.0006804	.000662	.015975	.0147005	.009778
%RSD	.1880094	.0965464	.1274914	5.063232	1.042888	5.410087	.2540301
#1	20.71515	102.4835	.5343598	-.013842	1.549800	.2645106	3.859446
#2	20.75438	102.5101	.5329995	-.012694	1.526300	.2886368	3.847525
#3	20.79319	102.6667	.5337127	-.012697	1.519304	.2620219	3.840061

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.119095	3.021365	-.756311	.0430125	4.791702	6.336279	.0669855
Stddev	.097577	.005070	.016263	.0005786	.005771	.067869	.0020441
%RSD	1.594624	.1678160	2.150368	1.345161	.1204326	1.071123	3.051519
#1	6.131847	3.015684	-.773382	.0436788	4.791492	6.411058	.0687517
#2	6.209669	3.022977	-.754554	.0427216	4.797575	6.278583	.0674582
#3	6.015770	3.025433	-.740998	.0426371	4.786040	6.319196	.0647464

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-17DLX2 Acquired: 12/30/2024 22:09:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.512349	.5271318	.0611702
Stddev	.012290	.0028688	.0034037
%RSD	.8126625	.5442280	5.564289
#1	1.503457	.5259525	.0591617
#2	1.507216	.5250407	.0592488
#3	1.526373	.5304024	.0651001

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1759.234	22238.06	2526.269	1459.718	1839.899
Stddev	1.214	46.49	18.688	.813	4.111
%RSD	.0689971	.2090346	.7397357	.0556749	.2234399
#1	1759.814	22290.19	2506.128	1458.908	1844.517
#2	1757.839	22223.04	2543.046	1459.712	1836.638
#3	1760.050	22200.93	2529.633	1460.533	1838.540

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-16LDLX10 Acquired: 12/30/2024 22:13:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063505	-.001416	.4055015	.0086659	.0088358	14.87211	.1482259
Stddev	.0050919	.004340	.0016988	.0052616	.0013874	.05134	.0015253
%RSD	80.18108	306.5469	.4189249	60.71637	15.70206	.3451818	1.029036
#1	.0108501	.001009	.4035411	.0129005	.0077195	14.82816	.1467043
#2	.0073784	-.006427	.4065408	.0103217	.0103891	14.85963	.1482184
#3	.0008231	.001170	.4064225	.0027756	.0083988	14.92853	.1497549

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032009	.0022573	95.69223	.3295771	.0348715	.0448146	94.12142
Stddev	.0000947	.0000807	.32734	.0014445	.0003165	.0093729	.50505
%RSD	2.960180	3.574531	.3420707	.4382761	.9075355	20.91485	.5365992
#1	.0033010	.0023403	95.55935	.3284875	.0352122	.0408719	93.54063
#2	.0031126	.0022524	95.45224	.3290282	.0348155	.0380571	94.45761
#3	.0031892	.0021791	96.06512	.3312155	.0345867	.0555148	94.36601

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.811781	23.61650	.1130093	-.001861	.3168605	.0709366	.8802200
Stddev	.015202	.19783	.0007317	.000761	.0071779	.0050663	.0047356
%RSD	.3159355	.8376826	.6474917	40.91669	2.265303	7.141976	.5380023
#1	4.794344	23.40371	.1136508	-.002736	.3170012	.0678117	.8850102
#2	4.818747	23.65091	.1131646	-.001495	.3239670	.0767820	.8755410
#3	4.822252	23.79486	.1122123	-.001351	.3096134	.0682161	.8801088

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.196017	.6275737	-.183450	.0110185	1.004855	1.886039	.0147048
Stddev	.090951	.0013933	.005072	.0001040	.011439	.034234	.0012580
%RSD	7.604517	.2220174	2.765005	.9439813	1.138333	1.815102	8.555018
#1	1.243067	.6291551	-.177881	.0109201	1.012169	1.908817	.0135450
#2	1.091179	.6265264	-.187807	.0110080	.991673	1.846671	.0160421
#3	1.253806	.6270396	-.184661	.0111273	1.010723	1.902629	.0145273

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-16LDLX10 Acquired: 12/30/2024 22:13:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.3605445	.1182684	.0006471
Stddev	.0026214	.0011608	.0056823
%RSD	.7270533	.9814960	878.1404
#1	.3589726	.1193886	-.005530
#2	.3635706	.1170709	.001820
#3	.3590902	.1183457	.005651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1682.148	21151.66	2329.112	1402.638	1909.937
Stddev	.835	53.08	7.060	2.015	.453
%RSD	.0496655	.2509602	.3031271	.1436505	.0237342
#1	1682.259	21187.03	2325.706	1401.903	1910.364
#2	1682.922	21090.62	2337.230	1404.917	1909.987
#3	1681.263	21177.34	2324.402	1401.094	1909.461

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-18DLX2 Acquired: 12/30/2024 22:17:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1149824	-.032801	1.918163	.2640540	.1671053	68.16601	2.556126
Stddev	.0030393	.003694	.006597	.0142767	.0004853	.15269	.005121
%RSD	2.643261	11.26099	.3439123	5.406730	.2903935	.2239950	.2003495
#1	.1152157	-.034953	1.925476	.2492051	.1673325	68.23568	2.557786
#2	.1178982	-.034915	1.912661	.2652771	.1674352	67.99091	2.550380
#3	.1118331	-.028536	1.916353	.2776797	.1665481	68.27144	2.560211

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0610758	.0610425	427.9620	1.648656	.5736895	.4021199	418.5131
Stddev	.0007270	.0001692	1.3407	.004715	.0009254	.0046638	.4019
%RSD	1.190314	.2772085	.3132761	.2860184	.1613125	1.159803	.0960357
#1	.0615498	.0610813	426.9513	1.653554	.5740845	.3991366	418.7561
#2	.0602388	.0608573	427.4518	1.648269	.5726321	.4074943	418.0492
#3	.0614388	.0611889	429.4829	1.644147	.5743519	.3997287	418.7340

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.82415	104.9287	1.053552	.0250554	1.579294	.7759416	4.395766
Stddev	.00744	.2181	.000399	.0011704	.018908	.0074017	.011121
%RSD	.0341115	.2078200	.0378379	4.671069	1.197256	.9538993	.2529960
#1	21.83000	105.1297	1.053696	.0257395	1.585380	.7843493	4.408437
#2	21.81577	104.9596	1.053102	.0237040	1.558093	.7704082	4.387626
#3	21.82668	104.6969	1.053860	.0257227	1.594411	.7730673	4.391235

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.243177	3.095040	-.789260	.0437371	4.938149	6.386249	.0673428
Stddev	.068434	.002880	.007057	.0007240	.005305	.067379	.0011539
%RSD	1.096133	.0930623	.8940985	1.655371	.1074291	1.055071	1.713452
#1	6.166467	3.098290	-.796235	.0432393	4.938714	6.427427	.0685116
#2	6.297957	3.094028	-.782124	.0445676	4.932584	6.308491	.0662045
#3	6.265109	3.092802	-.789422	.0434043	4.943149	6.422829	.0673122

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-18DLX2 Acquired: 12/30/2024 22:17:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W2S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.550473	.5388811	.0596091
Stddev	.008114	.0056888	.0021353
%RSD	.5233248	1.055676	3.582192
#1	1.546688	.5334355	.0572015
#2	1.544943	.5384224	.0603523
#3	1.559788	.5447854	.0612735

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1726.463	21771.41	2464.899	1428.424	1801.288
Stddev	6.819	168.39	18.934	10.737	5.609
%RSD	.3949776	.7734632	.7681321	.7516728	.3113747
#1	1733.674	21713.37	2443.074	1422.771	1807.012
#2	1725.598	21639.71	2476.930	1421.694	1801.051
#3	1720.119	21961.15	2474.692	1440.807	1795.802

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-21DLX2 Acquired: 12/30/2024 22:21:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2488316	-.204089	3.785960	.4100899	.1980894	28.26455
Stddev	.0058147	.003140	.008036	.0041487	.0024224	.08670
%RSD	2.336807	1.538512	.2122598	1.011667	1.222868	.3067310
#1	.2441183	-.200537	3.792479	.4066164	.1960297	28.16918
#2	.2553295	-.206495	3.776981	.4089694	.1974802	28.28587
#3	.2470472	-.205235	3.788420	.4146838	.2007582	28.33859

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.659667	.0146116	.0187958	226.5920	1.956574	.0921555
Stddev	.005577	.0001949	.0002833	.8276	.004104	.0002133
%RSD	.3360579	1.333846	1.507364	.3652279	.2097715	.2314467
#1	1.653261	.0144017	.0188657	225.6764	1.960456	.0919100
#2	1.662298	.0147869	.0184841	226.8127	1.952279	.0922954
#3	1.663442	.0146462	.0190377	227.2868	1.956988	.0922612

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.666525	F 844.2688	19.30875	37.38711	1.093237	-.026725
Stddev	.024674	2.2920	.07262	.26930	.001967	.000743
%RSD	.3218415	.2714811	.3761077	.7203023	.1799670	2.781738
#1	7.649242	841.7105	19.23700	37.26100	1.092037	-.025867
#2	7.655552	844.9611	19.30704	37.20401	1.092166	-.027171
#3	7.694783	846.1350	19.38221	37.69632	1.095508	-.027138

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.231585	.1615026	10.23224	2.891987	3.082436	F -1.92654
Stddev	.013944	.0087981	.07120	.162470	.005806	.02496
%RSD	1.132172	5.447686	.6958564	5.617921	.1883587	1.295686
#1	1.245005	.1574521	10.17653	2.761564	3.086567	-1.91008
#2	1.217171	.1715964	10.31246	2.840413	3.075797	-1.95526
#3	1.232579	.1554592	10.20773	3.073983	3.084943	-1.91428

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-21DLX2 Acquired: 12/30/2024 22:21:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2064900	10.44184	5.589936	.2658563	.9946852	-.238619
Stddev	.0004501	.02780	.038947	.0034648	.0057434	.000530
%RSD	.2179586	.2662310	.6967257	1.303264	.5774074	.2223187
#1	.2059840	10.47212	5.564720	.2646431	.9881209	-.238020
#2	.2066404	10.41747	5.634792	.2631613	.9971498	-.239031
#3	.2068456	10.43594	5.570296	.2697646	.9987850	-.238804

Elem	Li6707
Units	ppm
Avg	.0175640
Stddev	.0011801
%RSD	6.718565
#1	.0186844
#2	.0176754
#3	.0163322

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1657.032	21061.02	2368.928	1370.875	1905.059
Stddev	2.182	75.73	11.837	6.214	3.753
%RSD	.1316665	.3595733	.4996885	.4533057	.1969993
#1	1659.524	20976.17	2366.661	1371.250	1907.078
#2	1655.465	21121.78	2358.388	1364.481	1907.371
#3	1656.108	21085.10	2381.735	1376.893	1900.729

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-22DLX2 Acquired: 12/30/2024 22:25:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1772947	-.142069	2.477688	.2862318	.1356625	34.41898
Stddev	.0032452	.001283	.006171	.0057776	.0012650	.14162
%RSD	1.830403	.9027435	.2490607	2.018496	.9324578	.4114543
#1	.1758870	-.140738	2.471598	.2857867	.1343629	34.25632
#2	.1810061	-.143296	2.477530	.2806897	.1357348	34.48573
#3	.1749910	-.142172	2.483937	.2922191	.1368897	34.51489

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.749840	.0117589	.0120631	209.0280	1.405157	.0993235
Stddev	.007724	.0000733	.0001020	.6232	.001360	.0004128
%RSD	.4414067	.6229370	.8457377	.2981404	.0967914	.4155865
#1	1.741721	.0116964	.0120311	208.3316	1.406117	.0997919
#2	1.750700	.0117408	.0121773	209.2190	1.405752	.0991655
#3	1.757097	.0118395	.0119809	209.5333	1.403600	.0990130

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.847771	616.6116	14.20486	40.62340	.8360721	-.022259
Stddev	.021852	2.8771	.07819	.17497	.0017556	.000855
%RSD	.5679133	.4665945	.5504520	.4307070	.2099863	3.839808
#1	3.830115	613.3556	14.12538	40.42292	.8345864	-.022351
#2	3.840988	617.6684	14.20751	40.74533	.8356206	-.023064
#3	3.872211	618.8109	14.28169	40.70194	.8380094	-.021362

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9056905	.1660597	6.414393	4.052277	3.460842	F -1.43012
Stddev	.0204117	.0078056	.023382	.034182	.010782	.01091
%RSD	2.253719	4.700468	.3645311	.8435200	.3115405	.7629201
#1	.9243088	.1683099	6.426717	4.024674	3.451458	-1.43837
#2	.9088978	.1573762	6.429035	4.090511	3.458448	-1.43424
#3	.8838651	.1724930	6.387426	4.041645	3.472620	-1.41775

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5156-22DLX2 Acquired: 12/30/2024 22:25:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1462749	9.887408	6.041185	.1594482	.8825770	.0951648
Stddev	.0009214	.037216	.014446	.0018344	.0047931	.0017385
%RSD	.6299022	.3763948	.2391277	1.150445	.5430756	1.826855
#1	.1473387	9.875680	6.032678	.1587363	.8798489	.0971661
#2	.1457358	9.857469	6.057865	.1615318	.8797707	.0940276
#3	.1457500	9.929075	6.033011	.1580766	.8881113	.0943007

Elem	Li6707
Units	ppm
Avg	.0235481
Stddev	.0026331
%RSD	11.18185
#1	.0253584
#2	.0205274
#3	.0247584

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1680.873	21370.58	2392.006	1398.278	1886.520
Stddev	2.085	50.15	4.927	6.105	2.867
%RSD	.1240347	.2346881	.2059797	.4366192	.1519846
#1	1682.790	21331.52	2391.284	1393.637	1889.824
#2	1678.653	21353.08	2387.479	1396.004	1885.060
#3	1681.177	21427.14	2397.254	1405.194	1884.678

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: PB165326BL Acquired: 12/30/2024 22:28:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS326 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001362	-.003624	-.002616	-.000886	-.001396	.0058362
Stddev	.004300	.003767	.000686	.004463	.003031	.0114976
%RSD	315.6879	103.9432	26.20407	503.8674	217.1385	197.0060
#1	-.001670	-.000671	-.003361	.001037	.001484	.0172301
#2	-.005500	-.007866	-.002475	.002293	-.004558	.0060407
#3	.003084	-.002335	-.002012	-.005987	-.001114	-.005762

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020385	.0002357	.0000258	.0029858	.0001356	-.000374
Stddev	.0022510	.0000816	.0000666	.0557031	.0003757	.000443
%RSD	110.4215	34.61925	258.6403	1865.622	277.0920	118.4038
#1	-.000096	.0002372	.0000605	.0591049	.0001724	-.000884
#2	.001821	.0001534	-.000051	.0021441	.0004916	-.000154
#3	.004390	.0003165	.000068	-.052292	-.000257	-.000084

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109430	.0158310	.0019908	.0011576	-.000461	.0003400
Stddev	.0051393	.0122344	.0009555	.0903984	.000219	.0007250
%RSD	46.96393	77.28151	47.99710	7809.354	47.43172	213.2119
#1	.0105327	.0163468	.0010011	.0452284	-.000493	.0010684
#2	.0060212	.0277993	.0029081	.0610684	-.000228	-.000381
#3	.0162751	.0033468	.0020632	-.102824	-.000663	.000333

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.039332	-.003878	.0029053	-.417289	-.003336	-.004569
Stddev	.017951	.005247	.0007346	.082128	.002016	.002724
%RSD	45.64014	135.2970	25.28639	19.68141	60.44964	59.62588
#1	-.044899	-.003302	.0028588	-.353194	-.003709	-.006981
#2	-.019257	-.009389	.0036620	-.509867	-.001159	-.001614
#3	-.053840	.001057	.0021949	-.388805	-.005140	-.005113

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: PB165326BL Acquired: 12/30/2024 22:28:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS326 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000654	.0013822	.0005515	-.002579	-.004720	-.000231
Stddev	.0002026	.0022555	.0006624	.000593	.004025	.000096
%RSD	309.7062	163.1755	120.1104	22.99832	85.28335	41.73264
#1	-.000012	.0012962	.0011809	-.003095	-.000173	-.000161
#2	.000295	-.000829	-.000140	-.002711	-.006157	-.000341
#3	-.000087	.003680	.000613	-.001931	-.007828	-.000191

Elem	Li6707
Units	ppm
Avg	F -.022341
Stddev	.002972
%RSD	13.30348
#1	-.021106
#2	-.020186
#3	-.025732

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1654.712	20699.24	2253.207	1372.540	1948.299
Stddev	4.354	78.42	45.769	8.616	2.763
%RSD	.2631058	.3788339	2.031280	.6277429	.1418399
#1	1652.216	20750.17	2217.173	1374.303	1945.580
#2	1659.739	20608.94	2304.705	1363.178	1951.105
#3	1652.180	20738.60	2237.743	1380.138	1948.214

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: PB165326BS Acquired: 12/30/2024 22:32:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS326 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197018	.0503997	.0185482	.0600995	.1096520	.4105000
Stddev	.0018605	.0017362	.0040789	.0065169	.0029795	.0058362
%RSD	9.443475	3.444869	21.99078	10.84347	2.717243	1.421729
#1	.0213597	.0521485	.0148275	.0668098	.1124404	.4038626
#2	.0176896	.0486763	.0179075	.0537950	.1100031	.4148287
#3	.0200561	.0503744	.0229095	.0596937	.1065125	.4128086

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4090659	.0106733	.0099401	10.34428	.0214047	.1016843
Stddev	.0018470	.0002431	.0000244	.09343	.0002199	.0003688
%RSD	.4515155	2.277420	.2451098	.9031573	1.027479	.3626558
#1	.4111985	.0109053	.0099311	10.40394	.0212822	.1015167
#2	.4080151	.0104205	.0099677	10.39230	.0216586	.1021071
#3	.4079840	.0106942	.0099215	10.23661	.0212733	.1014290

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0584732	.2272363	.0320006	10.57722	.0787463	.0195321
Stddev	.0095398	.0441638	.0000239	.09815	.0007743	.0008130
%RSD	16.31481	19.43518	.0746805	.9279578	.9833283	4.162526
#1	.0543245	.2652089	.0320027	10.67285	.0781338	.0200047
#2	.0517102	.2377289	.0320233	10.58208	.0796167	.0185933
#3	.0693849	.1787712	.0319757	10.47673	.0784884	.0199983

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.349000	.1054393	.1208793	9.414014	.0172038	F -.005717
Stddev	.087998	.0096133	.0003216	.163348	.0020280	.001419
%RSD	1.197410	9.117339	.2660604	1.735156	11.78835	24.81160
#1	7.444716	.1123293	.1205249	9.596910	.0167607	-.007027
#2	7.271605	.1095315	.1209605	9.362495	.0194167	-.004210
#3	7.330679	.0944570	.1211525	9.282637	.0154339	-.005915

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: PB165326BS Acquired: 12/30/2024 22:32:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS326 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196597	.1843814	F .5037240	.0124246	.1978090	.2098771
Stddev	.0007285	.0037522	.0055492	.0012422	.0030285	.0013407
%RSD	3.705592	2.035038	1.101640	9.997677	1.531016	.6387958
#1	.0201213	.1882336	.5099466	.0120599	.1950485	.2113948
#2	.0188199	.1841726	.4992886	.0138083	.2010484	.2088539
#3	.0200380	.1807379	.5019367	.0114056	.1973300	.2093826

Elem	Li6707
Units	ppm
Avg	F .0071362
Stddev	.0017022
%RSD	23.85336
#1	.0054099
#2	.0088132
#3	.0071854

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1694.332	21251.32	2299.802	1419.981	1994.526
Stddev	2.533	81.86	25.323	3.383	1.158
%RSD	.1495166	.3851826	1.101116	.2382212	.0580387
#1	1692.211	21299.60	2271.132	1422.253	1995.230
#2	1697.137	21156.80	2309.152	1416.094	1995.158
#3	1693.648	21297.54	2319.120	1421.598	1993.190

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-10A Acquired: 12/30/2024 22:36:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK22A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1866791	.0264389	5.216219	.1217514	-.079311	74.62675
Stddev	.0082640	.0050524	.008408	.0019343	.005297	.36386
%RSD	4.426845	19.10971	.1611929	1.588735	6.678152	.4875730
#1	.1925779	.0309633	5.212396	.1236403	-.075109	74.47334
#2	.1772338	.0209870	5.225859	.1197747	-.077564	75.04219
#3	.1902257	.0273664	5.210401	.1218393	-.085261	74.36472

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.805254	.0073835	.0118945	174.8019	.1608553	.1167191
Stddev	.015712	.0001260	.0001001	.8473	.0002834	.0002164
%RSD	.5600760	1.706433	.8419606	.4847224	.1762020	.1853916
#1	2.801478	.0073585	.0119555	174.5499	.1607241	.1169404
#2	2.822510	.0072719	.0117789	175.7466	.1611806	.1167090
#3	2.791775	.0075202	.0119491	174.1091	.1606613	.1165080

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5773142	172.7262	8.124901	62.99952	.1814349	-.000359
Stddev	.0010451	1.2032	.037333	.43168	.0009515	.000166
%RSD	.1810299	.6965968	.4594839	.6852162	.5244078	46.29330
#1	.5784754	172.1644	8.106252	62.94859	.1804499	-.000194
#2	.5770185	174.1076	8.167883	63.45441	.1815060	-.000526
#3	.5764489	171.9067	8.100567	62.59557	.1823488	-.000357

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8965970	.2174821	2.880263	7.468761	F 13.65410	-.361341
Stddev	.0185992	.0117547	.012697	.086218	.01899	.004200
%RSD	2.074425	5.404916	.4408411	1.154383	.1390866	1.162446
#1	.8929476	.2135928	2.872508	7.434211	13.64545	-.365457
#2	.9167505	.2306885	2.873365	7.405177	13.67587	-.361503
#3	.8800930	.2081649	2.894916	7.566896	13.64096	-.357061

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5027-10A Acquired: 12/30/2024 22:36:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK22A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075655	3.206377	9.454857	F 10.54572	1.279501	.1256911
Stddev	.0003084	.003521	.070233	.01715	.011997	.0003368
%RSD	4.076599	.1098067	.7428222	.1626537	.9376296	.2679385
#1	.0074803	3.206578	9.493723	10.52921	1.273811	.1259980
#2	.0073087	3.209793	9.497065	10.56345	1.293284	.1253308
#3	.0079076	3.202760	9.373782	10.54451	1.271406	.1257443

Elem	Li6707
Units	ppm
Avg	.1090156
Stddev	.0031006
%RSD	2.844216
#1	.1084309
#2	.1062490
#3	.1123670

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1979.200	24805.50	2758.975	1634.550	1836.302
Stddev	8.565	50.07	21.479	1.428	8.155
%RSD	.4327573	.2018566	.7785120	.0873727	.4440850
#1	1973.430	24775.65	2745.897	1632.903	1834.765
#2	1975.128	24777.53	2747.264	1635.450	1829.024
#3	1989.041	24863.31	2783.764	1635.296	1845.115

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5030-04A Acquired: 12/30/2024 22:40:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8102030	.0092744	5.131152	.1008665	.0428315	90.53762	1.296467
Stddev	.0036451	.0026681	.014628	.0019599	.0028697	.04832	.002697
%RSD	.4498963	28.76864	.2850915	1.943045	6.699908	.0533669	.2079923
#1	.8115674	.0062019	5.140935	.1012092	.0403769	90.53550	1.293353
#2	.8129691	.0106146	5.114335	.1026325	.0421311	90.58697	1.298039
#3	.8060726	.0110068	5.138186	.0987579	.0459866	90.49040	1.298008

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088750	.0119970	88.10440	.1395805	.1622330	.5299936	225.2793
Stddev	.0000753	.0001419	.02297	.0003383	.0004675	.0038686	.1396
%RSD	.8489372	1.182374	.0260670	.2423431	.2881432	.7299400	.0619833
#1	.0087891	.0121177	88.07881	.1399583	.1625875	.5337402	225.4308
#2	.0089064	.0118407	88.11119	.1394775	.1617032	.5260135	225.1558
#3	.0089296	.0120325	88.12321	.1393058	.1624084	.5302271	225.2512

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.05148	33.43719	.2755356	-.004214	.4595282	.2280493	1.327120
Stddev	.01012	.21716	.0016416	.000591	.0336477	.0072126	.004563
%RSD	.0593260	.6494439	.5957874	14.03370	7.322236	3.162753	.3438406
#1	17.04787	33.52255	.2759970	-.004306	.4758196	.2197212	1.327301
#2	17.06290	33.59869	.2737127	-.004755	.4819294	.2322809	1.322469
#3	17.04366	33.19032	.2768972	-.003583	.4208356	.2321456	1.331590

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.394391	8.829562	-.495377	.0091072	3.362036	12.65022	.0958894
Stddev	.101513	.028736	.006246	.0000728	.002575	.03975	.0014024
%RSD	1.080570	.3254512	1.260953	.7991735	.0765986	.3142384	1.462524
#1	9.455183	8.856103	-.500802	.0090684	3.359094	12.66544	.0974754
#2	9.450789	8.799045	-.488548	.0091912	3.363130	12.60511	.0953794
#3	9.277201	8.833537	-.496782	.0090621	3.363883	12.68011	.0948133

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: P5030-04A Acquired: 12/30/2024 22:40:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK44A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.8834891	-.022660	.0692534
Stddev	.0019197	.000357	.0010948
%RSD	.2172893	1.575649	1.580897
#1	.8812803	-.022826	.0700352
#2	.8844315	-.022903	.0680021
#3	.8847555	-.022250	.0697228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2161.800	27121.87	2981.559	1797.822	1932.466
Stddev	5.849	143.50	2.015	5.349	6.693
%RSD	.2705560	.5290928	.0675927	.2975056	.3463529
#1	2162.596	27026.01	2979.761	1794.498	1929.682
#2	2167.209	27052.76	2983.737	1794.976	1940.102
#3	2155.593	27286.85	2981.179	1803.992	1927.614

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCV051 Acquired: 12/30/2024 22:44:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV051 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.963584	4.808250	24.59269	4.877112	4.884009	403.3365
Stddev	.002968	.023034	.00928	.005381	.007553	3.1826
%RSD	.0597928	.4790453	.0377464	.1103286	.1546495	.7890643
#1	4.966914	4.825019	24.58204	4.871960	4.889856	399.7329
#2	4.961218	4.781987	24.59910	4.876681	4.875481	405.7620
#3	4.962619	4.817744	24.59693	4.882695	4.886690	404.5148

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.05596	.5035767	2.480096	408.7467	15.53174	2.470711
Stddev	.07387	.0084528	.001852	3.0474	.05621	.002399
%RSD	.7345445	1.678556	.0746610	.7455440	.3619110	.0971138
#1	9.97070	.4950859	2.480002	405.5172	15.49013	2.470243
#2	10.10086	.5119910	2.478293	411.5716	15.59569	2.468580
#3	10.09630	.5036533	2.481993	409.1514	15.50941	2.473310

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.02644	407.1909	15.00125	403.0701	2.502149	1.265768
Stddev	.14276	3.2687	.09726	3.4494	.001249	.005266
%RSD	.9500539	.8027476	.6483693	.8557763	.0499269	.4160299
#1	14.87406	403.5523	14.89015	399.0910	2.503535	1.260411
#2	15.15709	409.8791	15.07105	405.2119	2.501110	1.270938
#3	15.04819	408.1413	15.04254	404.9075	2.501802	1.265956

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	411.0752	2.466909	14.88631	152.5305	4.862851	F 4.309786
Stddev	7.3458	.006883	.08123	1.5327	.021167	.057171
%RSD	1.786968	.2790025	.5456741	1.004877	.4352796	1.326530
#1	402.8191	2.467721	14.81473	150.7616	4.877017	4.248537
#2	416.8881	2.459656	14.97459	153.3663	4.838518	4.361739
#3	413.5183	2.473349	14.86960	153.4638	4.873016	4.319082

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCV051 Acquired: 12/30/2024 22:44:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV051 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.787030	4.958011	4.945617	5.006629	5.022815	4.773429
Stddev	.010836	.015097	.069964	.002613	.052163	.033468
%RSD	.2263549	.3045031	1.414674	.0521976	1.038527	.7011369
#1	4.790969	4.942260	4.876130	5.005311	4.963270	4.738885
#2	4.774775	4.959416	5.016049	5.004937	5.044726	4.805706
#3	4.795345	4.972356	4.944672	5.009639	5.060449	4.775697

Elem	Li6707
Units	ppm
Avg	5.070041
Stddev	.041486
%RSD	.8182532
#1	5.022163
#2	5.092640
#3	5.095321

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1439.603	18742.58	2191.641	1182.392	1614.944
Stddev	1.150	12.08	24.030	3.177	1.044
%RSD	.0798821	.0644367	1.096451	.2686602	.0646521
#1	1438.292	18738.72	2216.395	1184.966	1616.024
#2	1440.442	18732.91	2168.407	1178.842	1613.940
#3	1440.076	18756.12	2190.121	1183.368	1614.868

Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCB051 Acquired: 12/30/2024 22:48:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB051 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003973	-.000394	.0046388	-.002349	.0008410	-.009922	.0007284
Stddev	.002704	.004002	.0020895	.001064	.0032919	.026807	.0009245
%RSD	68.05094	1016.797	45.04310	45.30905	391.4435	270.1816	126.9326
#1	-.000973	-.000842	.0070513	-.001656	-.001330	.020834	.0015438
#2	-.006221	-.004152	.0034023	-.001816	-.000776	-.028332	-.000276
#3	-.004726	.003814	.0034629	-.003574	.004629	-.022267	.000917

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001749	.0003514	.0298803	.0019599	.0000307	.0025495	.0256376
Stddev	.0001202	.0000865	.0209884	.0002013	.0002449	.0023815	.0365193
%RSD	68.71728	24.61819	70.24159	10.27130	798.1942	93.41177	142.4444
#1	.0002821	.0002551	.0223559	.0021888	.0003125	.0006588	.0022789
#2	.0000450	.0004226	.0535937	.0018807	-.000130	.0017655	.0069124
#3	.0001977	.0003764	.0136913	.0018102	-.000090	.0052241	.0677214

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029602	.0434325	.0000199	.0009122	.0485208	-.006243	.0041225
Stddev	.0002381	.0071387	.0005241	.0014349	.0129373	.017392	.0001602
%RSD	8.045034	16.43640	2630.520	157.2977	26.66339	278.5759	3.886250
#1	.0029795	.0511006	.0006172	.0006998	.0556685	.013082	.0041435
#2	.0031881	.0422178	-.000363	.0024416	.0335867	-.011174	.0042712
#3	.0027130	.0369790	-.000194	-.000405	.0563073	-.020638	.0039528

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.278086	.0009659	.0100678	.0010046	.0015440	-.000123	-.005124
Stddev	.050492	.0028759	.0010910	.0000849	.0026273	.000950	.000823
%RSD	18.15698	297.7364	10.83601	8.452874	170.1594	769.7124	16.06499
#1	-.238724	.0024212	.0099970	.0010965	-.001313	.000468	-.004176
#2	-.335015	.0028233	.0090140	.0009291	.003856	.000381	-.005652
#3	-.260518	-.002347	.0111925	.0009882	.002090	-.001219	-.005545

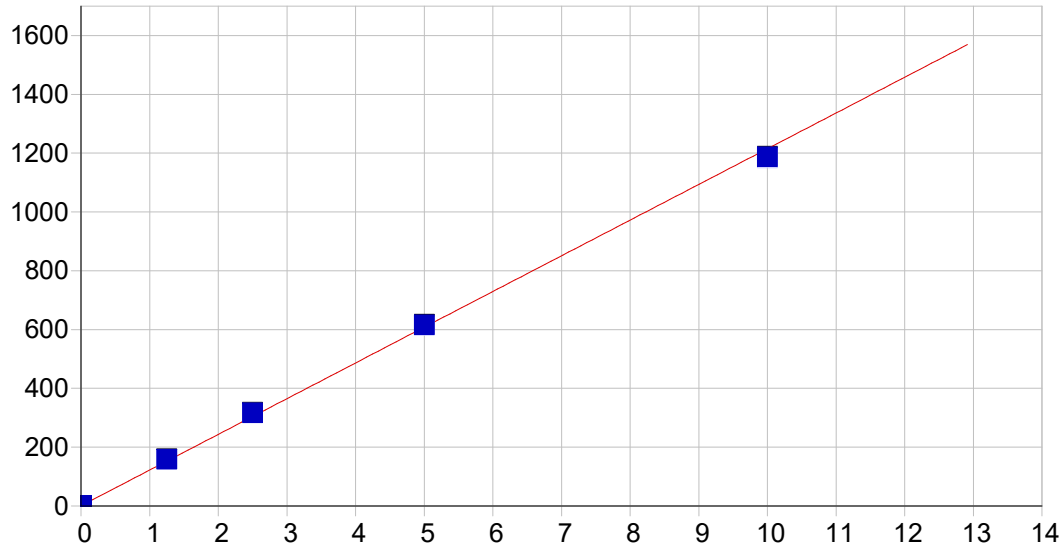
Reviewed By:mohan
On:1/2/2025 2:18:34 AM
Inst Id :P5

Sample Name: CCB051 Acquired: 12/30/2024 22:48:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v55) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB051 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.001272	.0000973	.0026521
Stddev	.003603	.0001484	.0036077
%RSD	283.2239	152.4256	136.0324
#1	-.005427	.0002372	.0006676
#2	.000991	.0001132	.0004723
#3	.000619	-.000058	.0068164

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1656.804	20835.85	2254.904	1383.696	1951.205
Stddev	2.226	129.97	19.214	8.415	3.158
%RSD	.1343437	.6237947	.8521071	.6081732	.1618314
#1	1658.329	20985.90	2246.427	1393.117	1949.068
#2	1654.249	20763.27	2276.899	1381.048	1949.714
#3	1657.832	20758.37	2241.387	1376.924	1954.832

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



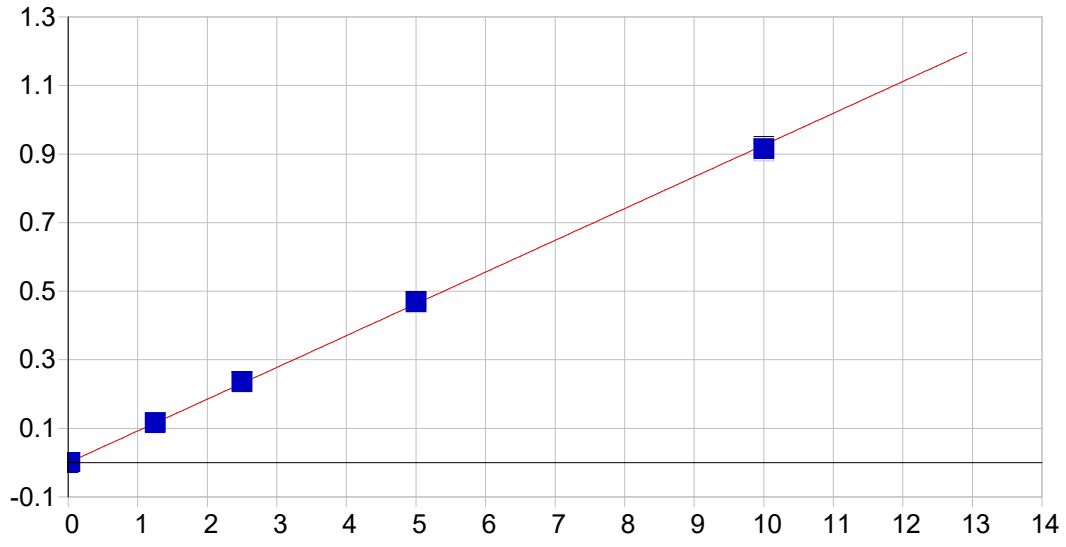
As 189.042 {478}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.701325	Re-Slope:	1.000000
A1 (Gain):	121.442660	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999659	Status:	OK.
Std Error of Est:	0.052980		
Predicted MDL:	0.006053		
Predicted MQL:	0.020176		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.70122	.351	1
S1	.01000	.01011	.000	1.14	1.9279	.620	1
S2	1.2500	1.3032	.053	4.26	158.33	.573	1
S3	2.5000	2.6058	.106	4.23	315.89	2.11	1
S4	5.0000	5.0661	.066	1.32	613.39	2.66	1
S5	10.000	9.7747	-.225	-2.25	1182.7	1.71	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



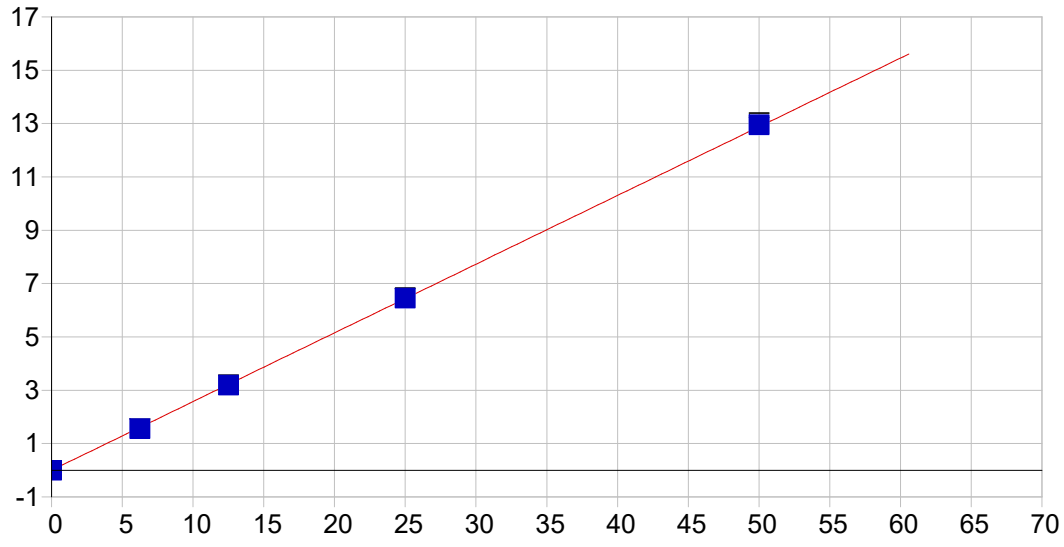
Tl 190.856 {477}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000135	Re-Slope:	1.000000
A1 (Gain):	0.092640	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999896	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.003429		
Predicted MQL:	0.011430		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00013	.000	1
S1	.02500	.02076	-.004	-17.0	.00171	.000	1
S2	1.2500	1.2550	.005	.404	.11514	.000	1
S3	2.5000	2.5477	.048	1.91	.23390	.001	1
S4	5.0000	5.0662	.066	1.32	.46522	.001	1
S5	10.000	9.8852	-.115	-1.15	.90768	.006	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



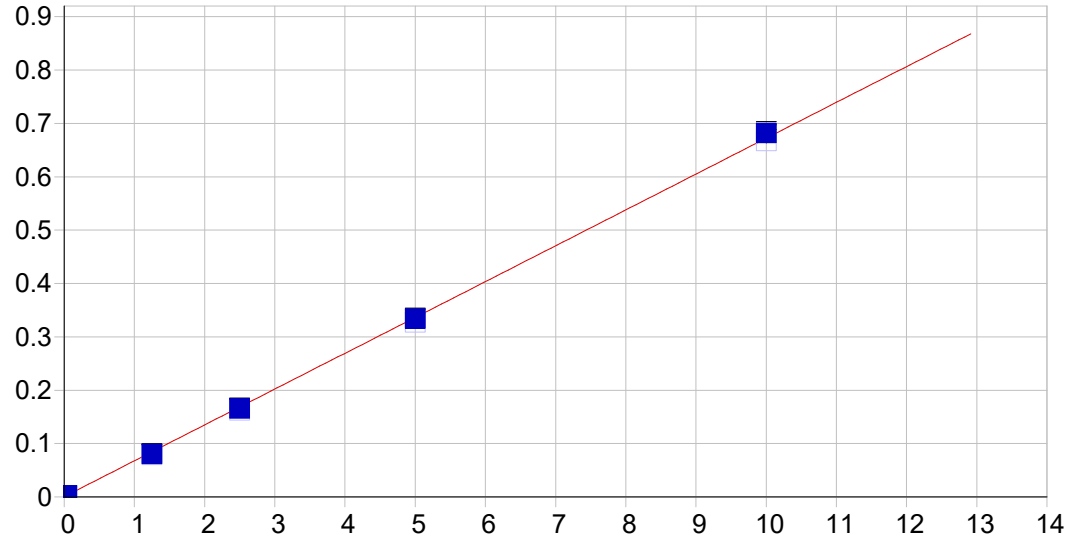
Pb 220.353 {453}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000160	Re-Slope:	1.000000
A1 (Gain):	0.257599	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000099		
Predicted MDL:	0.003204		
Predicted MQL:	0.010679		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00016	.000	1
S1	.01000	.00885	-.001	-11.5	.00210	.001	1
S2	6.2500	6.0398	-.210	-3.36	1.5536	.004	1
S3	12.500	12.388	-.112	-.898	3.1867	.011	1
S4	25.000	25.039	.039	.157	6.4414	.008	1
S5	50.000	50.284	.284	.569	12.936	.080	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



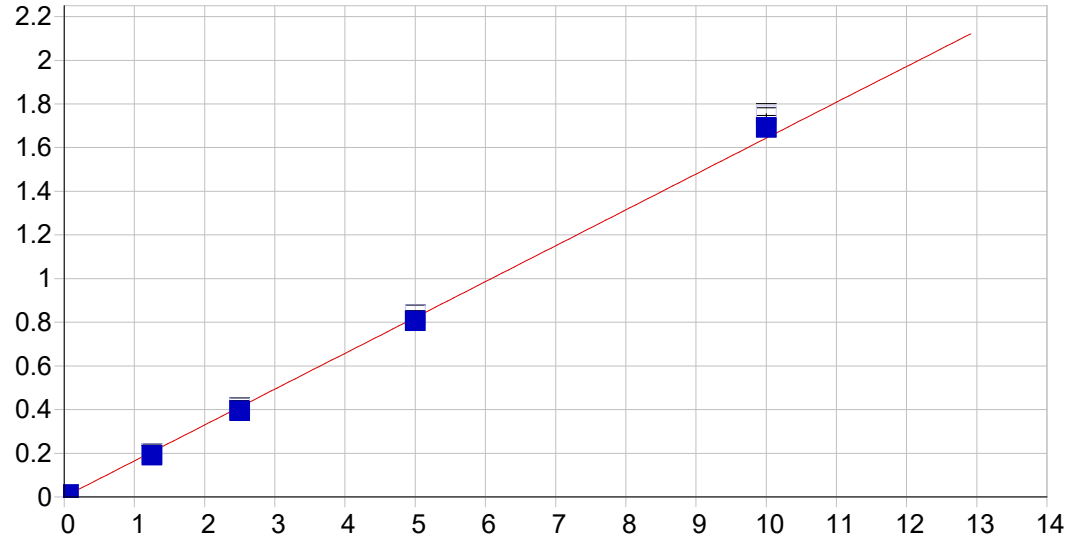
Se 196.090 {472}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000506	Re-Slope:	1.000000
A1 (Gain):	0.067168	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999755	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.006342		
Predicted MQL:	0.021138		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00051	.000	1
S1	.03500	.02447	-.011	-30.1	.00214	.000	1
S2	1.2500	1.1924	-.058	-4.61	.07871	.000	1
S3	2.5000	2.4574	-.043	-1.71	.16178	.001	1
S4	5.0000	4.9682	-.032	-.636	.32666	.001	1
S5	10.000	10.143	.143	1.43	.66666	.003	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



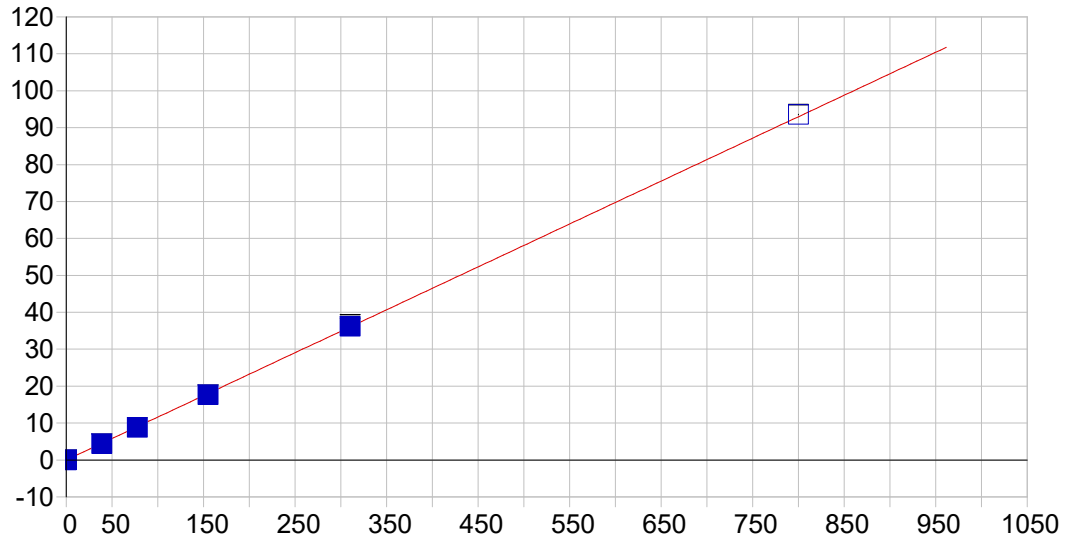
Sb 206.833 {463}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000618	Re-Slope:	1.000000
A1 (Gain):	0.164253	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999456	Status:	OK.
Std Error of Est:	0.000230		
Predicted MDL:	0.003533		
Predicted MQL:	0.011778		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00062	.000	1
S1	.06000	.05539	-.005	-7.68	.00972	.001	1
S2	1.2500	1.1582	-.092	-7.34	.19772	.001	1
S3	2.5000	2.3964	-.104	-4.14	.40797	.001	1
S4	5.0000	4.9049	-.095	-1.90	.83373	.001	1
S5	10.000	10.295	.295	2.95	1.7465	.010	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



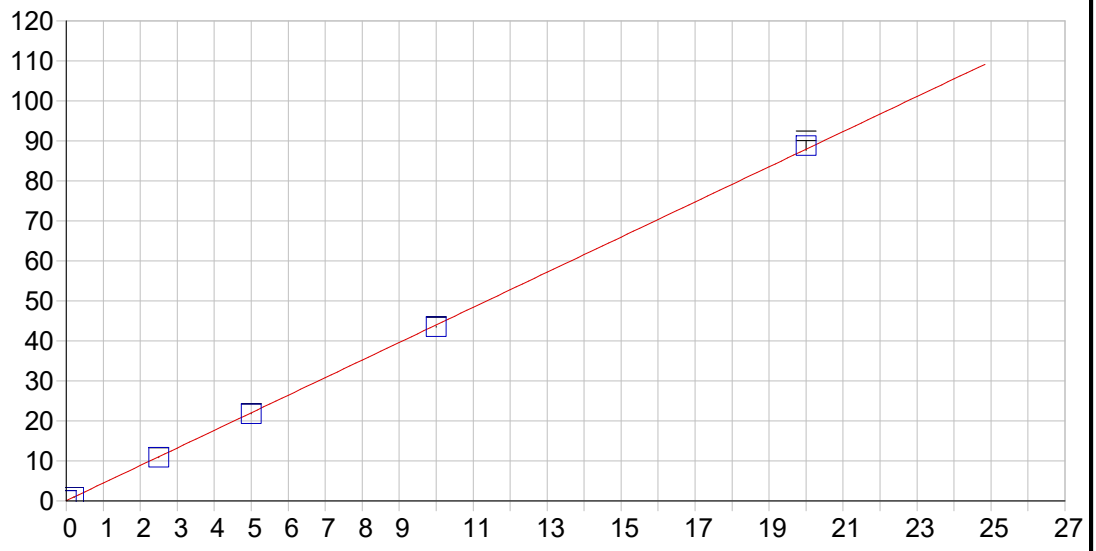
Al 396.152 { 85}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002383	Re-Slope:	1.000000
A1 (Gain):	0.116225	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000826		
Predicted MDL:	0.026230		
Predicted MQL:	0.087434		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00238	.003	1
S1	.20000	.20246	.002	1.23	.02119	.001	1
S2	38.750	37.536	-1.21	-3.13	4.3652	.002	1
S3	77.500	75.773	-1.73	-2.23	8.8141	.020	1
S4	155.00	151.75	-3.25	-2.10	17.655	.043	1
S5	310.00	311.16	1.16	.373	36.201	.478	1
S6	800.00	805.04	5.04	.629	93.563	.087	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



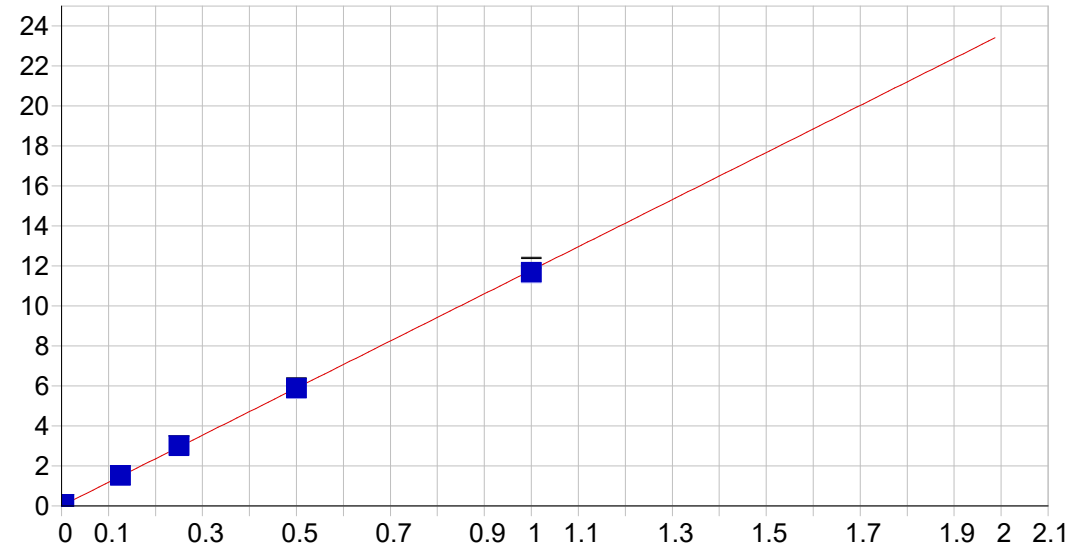
Ba 493.409 { 68}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.059957	Re-Slope:	1.000000
A1 (Gain):	4.393278	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999937	Status:	OK.
Std Error of Est:	0.005236		
Predicted MDL:	0.001498		
Predicted MQL:	0.004992		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.05997	.006	1
S1	.20000	.20324	.003	1.62	.95285	.005	1
S2	2.5000	2.4538	-.046	-1.85	10.840	.023	1
S3	5.0000	4.9465	-.054	-1.07	21.791	.030	1
S4	10.000	9.8919	-.108	-1.08	43.518	.066	1
S5	20.000	20.205	.205	1.02	88.824	1.19	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



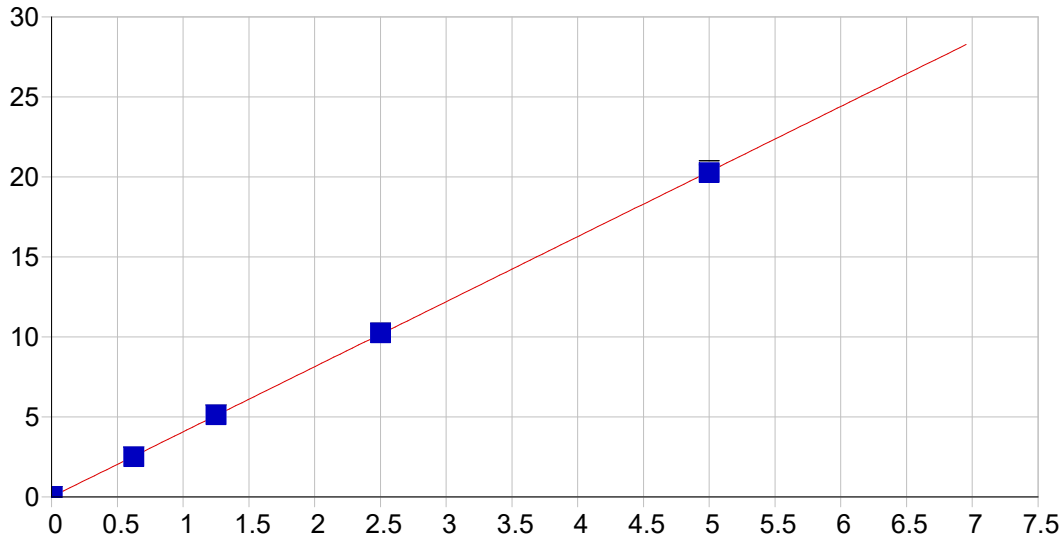
Be 234.861 {144}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003304	Re-Slope:	1.000000
A1 (Gain):	11.780982	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	0.000546		
Predicted MDL:	0.000144		
Predicted MQL:	0.000482		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00330	.002	1
S1	.00500	.00532	.000	6.31	.06587	.001	1
S2	.12500	.12828	.003	2.62	1.5078	.005	1
S3	.25000	.25534	.005	2.14	2.9980	.016	1
S4	.50000	.49914	-.001	-.173	5.8566	.022	1
S5	1.0000	.99192	-.008	-.808	11.635	.248	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



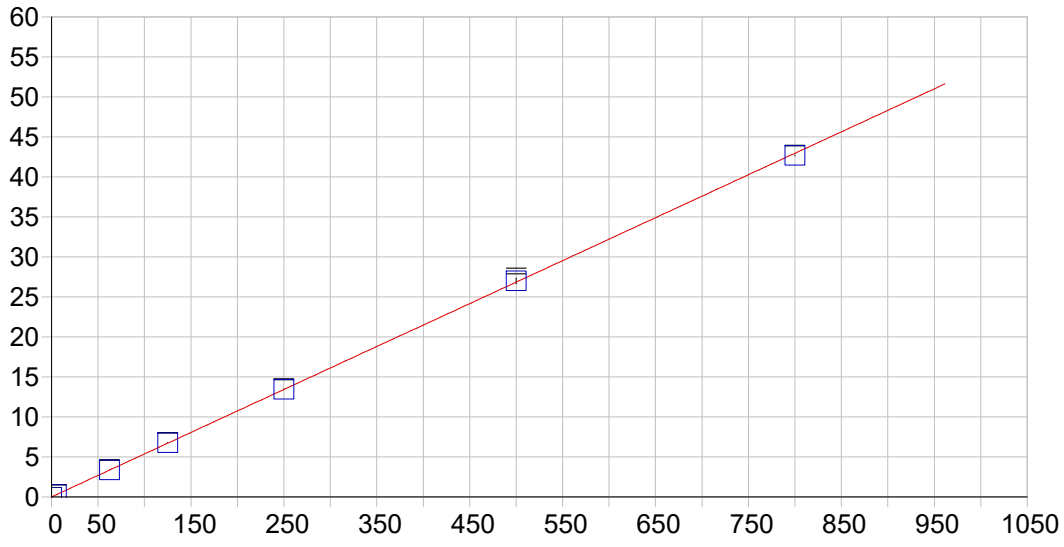
Cd 214.438 {457}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001108	Re-Slope:	1.000000
A1 (Gain):	4.066746	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000227		
Predicted MDL:	0.000111		
Predicted MQL:	0.000372		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00111	.001	1
S1	.00500	.00489	-.000	-2.12	.02109	.000	1
S2	.62500	.61675	-.008	-1.32	2.5132	.004	1
S3	1.2500	1.2607	.011	.853	5.1357	.014	1
S4	2.5000	2.5181	.018	.724	10.257	.007	1
S5	5.0000	4.9796	-.020	-.408	20.283	.124	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



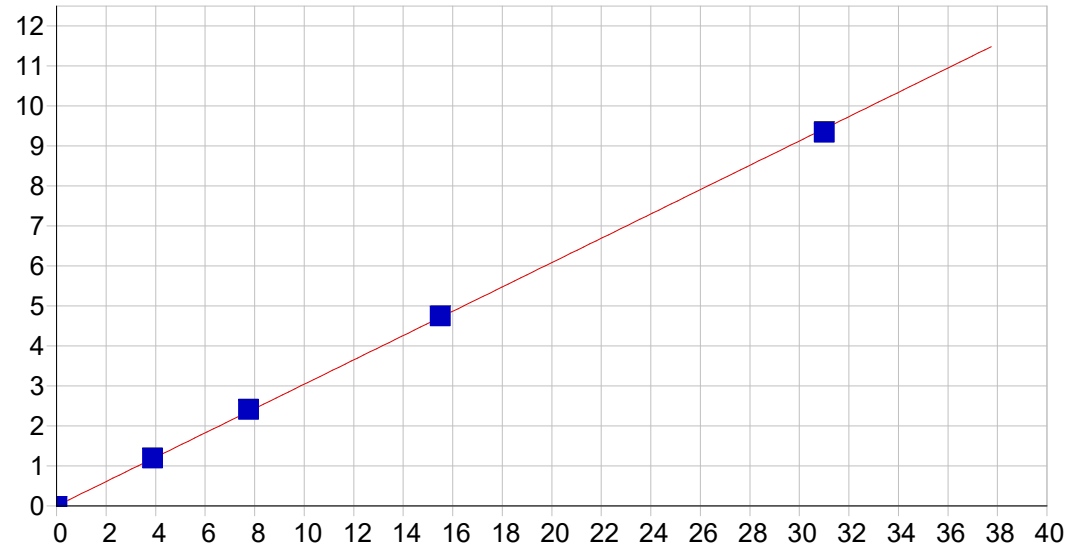
Ca 373.690 { 90}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005749	Re-Slope:	1.000000
A1 (Gain):	0.053687	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.001166		
Predicted MDL:	0.037921		
Predicted MQL:	0.126402		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00022	-.000	.000	.00574	.002	1
S1	5.0000	5.1407	.141	2.81	.28174	.003	1
S2	62.500	62.823	.323	.517	3.3785	.003	1
S3	125.00	126.16	1.16	.931	6.7791	.022	1
S4	250.00	250.61	.605	.242	13.460	.043	1
S5	500.00	502.89	2.89	.578	27.004	.349	1
S6	800.00	794.88	-5.12	-.640	42.680	.046	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



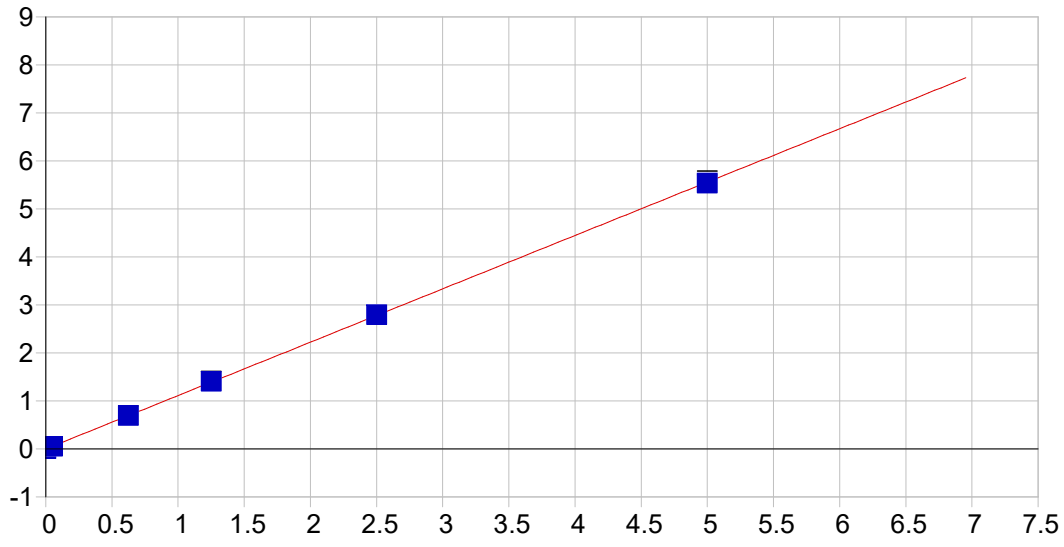
Cr 267.716 {126}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000422	Re-Slope:	1.000000
A1 (Gain):	0.304189	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000103		
Predicted MDL:	0.000839		
Predicted MQL:	0.002798		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00042	.000	1
S1	.01000	.00957	-.000	-4.32	.00334	.000	1
S2	3.8750	3.9054	.030	.785	1.1893	.001	1
S3	7.7500	7.9159	.166	2.14	2.4102	.006	1
S4	15.500	15.609	.109	.706	4.7523	.012	1
S5	31.000	30.695	-.305	-.985	9.3447	.018	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



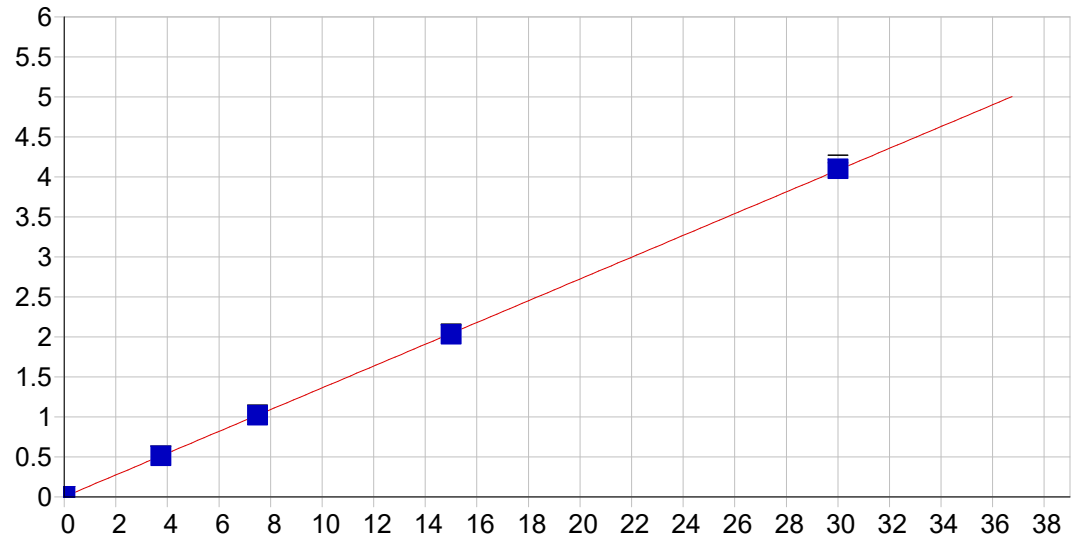
Co 228.616 {448}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000372	Re-Slope:	1.000000
A1 (Gain):	1.111775	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000167		
Predicted MDL:	0.000439		
Predicted MQL:	0.001464		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00037	.000	1
S1	.05000	.05096	.001	1.91	.05646	.000	1
S2	.62500	.62130	-.004	-.592	.69261	.001	1
S3	1.2500	1.2629	.013	1.04	1.4082	.005	1
S4	2.5000	2.5104	.010	.418	2.7996	.002	1
S5	5.0000	4.9794	-.021	-.413	5.5535	.034	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



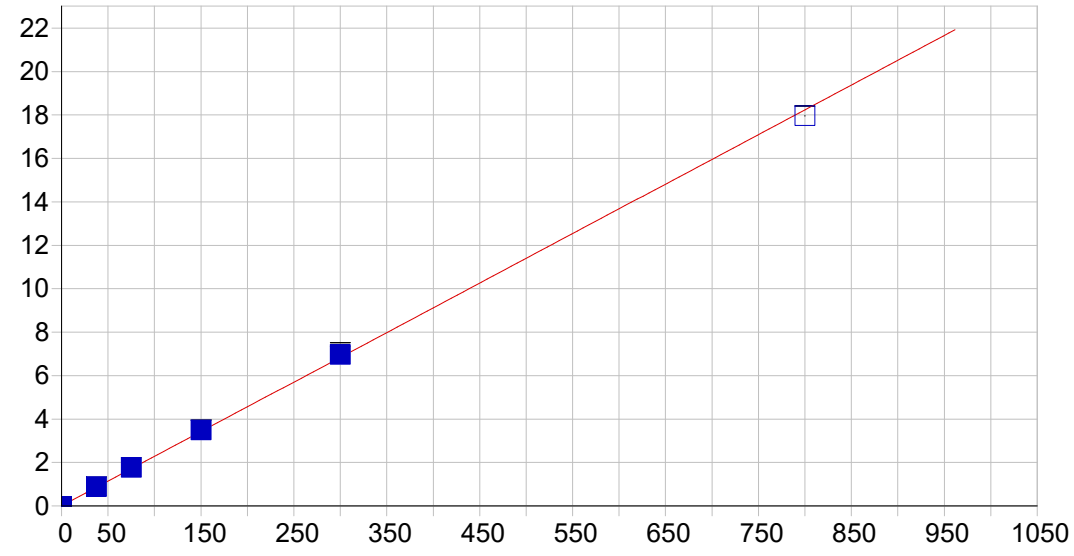
Cu 324.754 {104}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002278	Re-Slope:	1.000000
A1 (Gain):	0.136088	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000085		
Predicted MDL:	0.010581		
Predicted MQL:	0.035272		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00228	.001	1
S1	.02500	.04038	.015	61.5	.00777	.002	1
S2	3.7500	3.7430	-.007	-.186	.51160	.001	1
S3	7.5000	7.4833	-.017	-.223	1.0206	.004	1
S4	15.000	14.904	-.096	-.637	2.0304	.005	1
S5	30.000	30.104	.104	.346	4.0986	.048	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



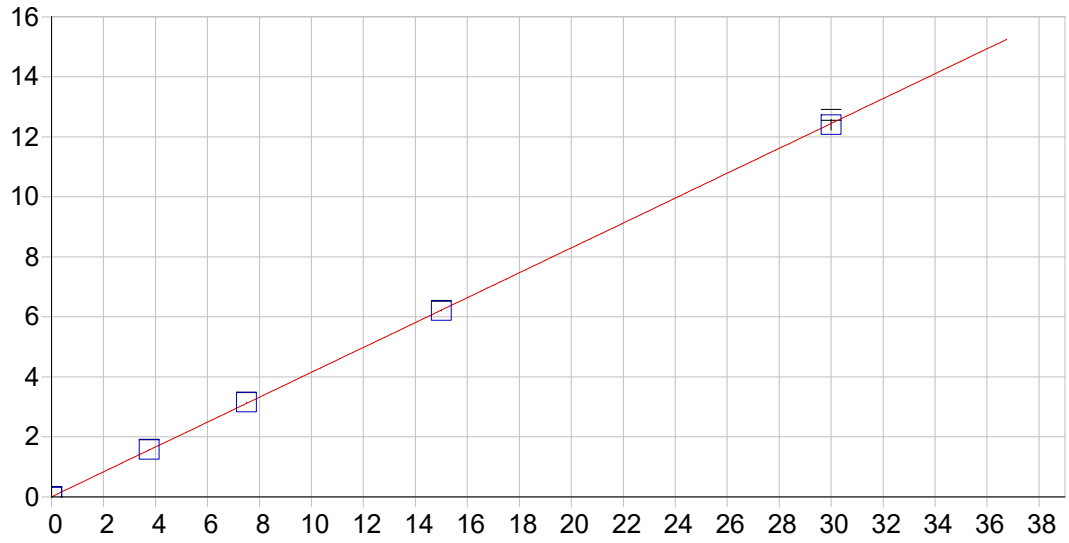
Fe 259.837 {130}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001631	Re-Slope:	1.000000
A1 (Gain):	0.022795	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999824	Status:	OK.
Std Error of Est:	0.000187		
Predicted MDL:	0.033702		
Predicted MQL:	0.112340		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00163	.001	1
S1	.10000	.08884	-.011	-11.2	.00366	.000	1
S2	37.500	38.818	1.32	3.51	.88667	.002	1
S3	75.000	77.397	2.40	3.20	1.7663	.001	1
S4	150.00	153.12	3.12	2.08	3.4928	.008	1
S5	300.00	305.49	5.49	1.83	6.9668	.087	1
S6	800.00	787.68	-12.3	-1.54	17.957	.014	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



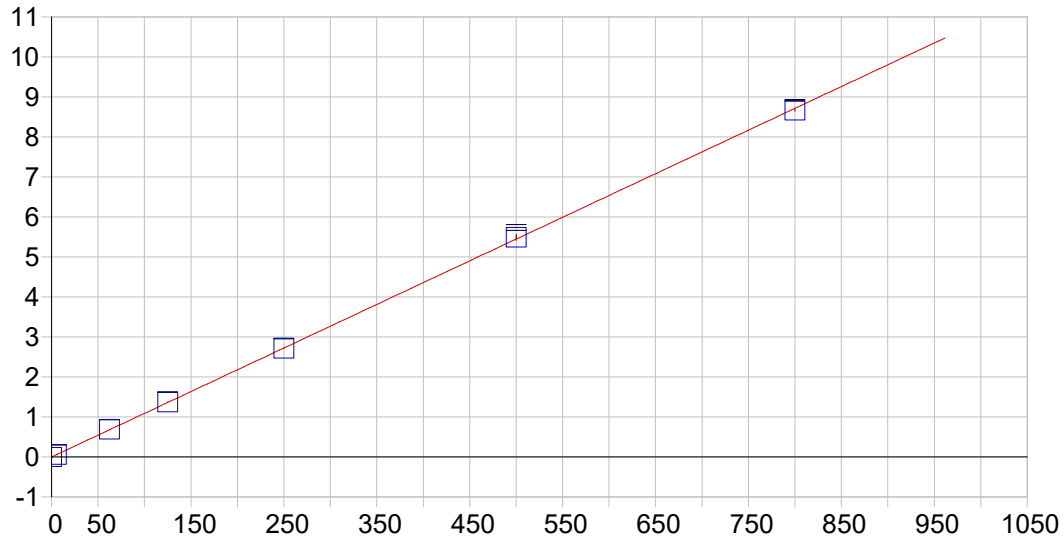
Mn 257.610 {131}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005245	Re-Slope:	1.000000
A1 (Gain):	0.414666	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000091		
Predicted MDL:	0.001843		
Predicted MQL:	0.006145		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00524	.001	1
S1	.01500	.01590	.001	6.01	.01184	.000	1
S2	3.7500	3.7986	.049	1.30	1.5804	.006	1
S3	7.5000	7.5882	.088	1.18	3.1518	.005	1
S4	15.000	14.962	-.038	-.251	6.2096	.009	1
S5	30.000	29.900	-.100	-.334	12.404	.183	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



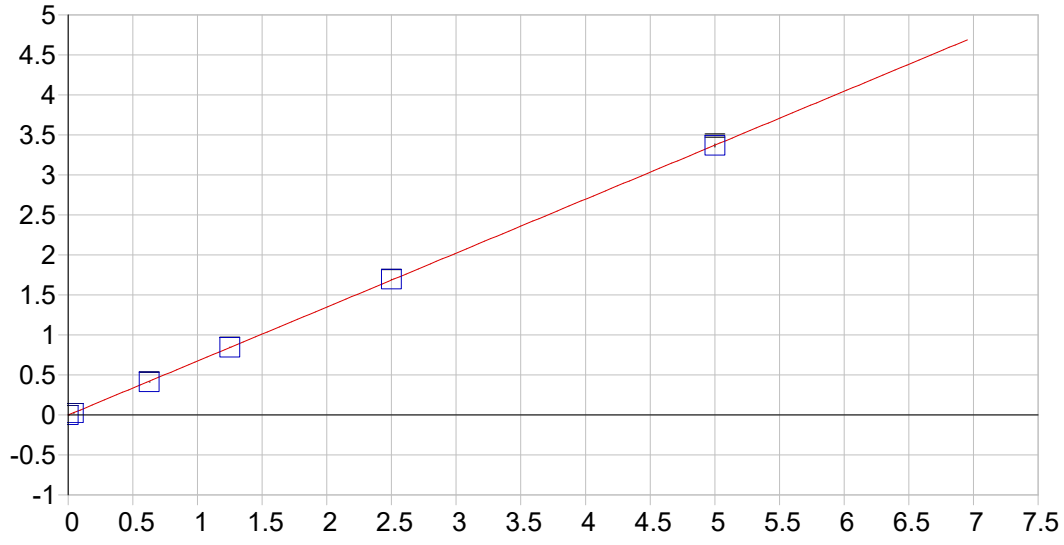
Mg 279.079 {121}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000885	Re-Slope:	1.000000
A1 (Gain):	0.010894	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000235		
Predicted MDL:	0.088784		
Predicted MQL:	0.295946		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00012	-.000	.000	-.00089	.001	1
S1	5.0000	5.0563	.056	1.13	.05420	.001	1
S2	62.500	62.926	.426	.682	.68463	.003	1
S3	125.00	125.95	.947	.758	1.3712	.003	1
S4	250.00	249.22	-.777	-.311	2.7142	.007	1
S5	500.00	503.79	3.79	.759	5.4875	.072	1
S6	800.00	795.55	-4.45	-.556	8.6659	.019	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



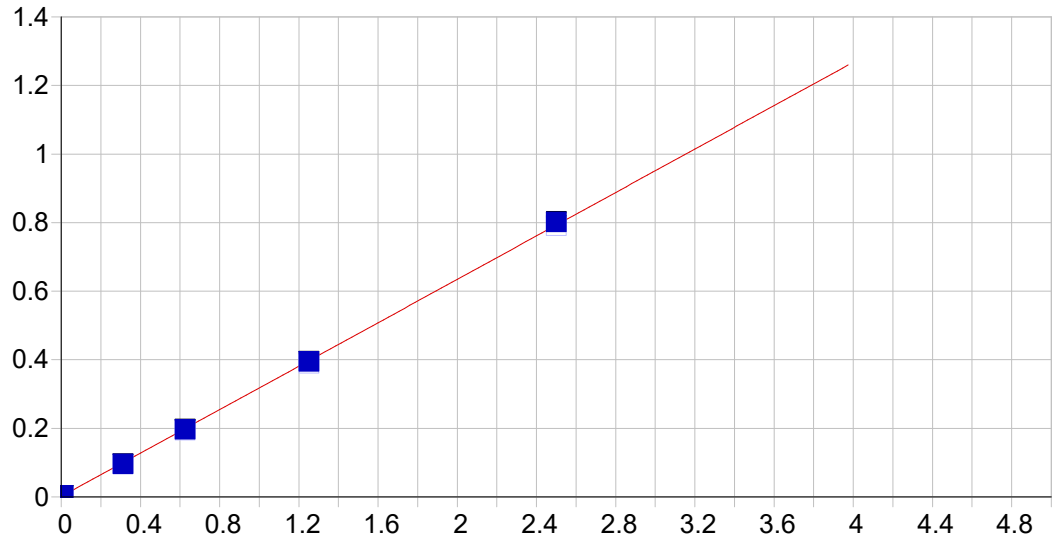
Ni 231.604 {446}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001170	Re-Slope:	1.000000
A1 (Gain):	0.674444	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000107		
Predicted MDL:	0.000919		
Predicted MQL:	0.003064		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00117	.001	1
S1	.04000	.03923	-.001	-1.92	.02529	.000	1
S2	.62500	.61146	-.014	-2.17	.41123	.001	1
S3	1.2500	1.2556	.006	.447	.84566	.000	1
S4	2.5000	2.5144	.014	.577	1.6947	.002	1
S5	5.0000	4.9943	-.006	-.114	3.3672	.020	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



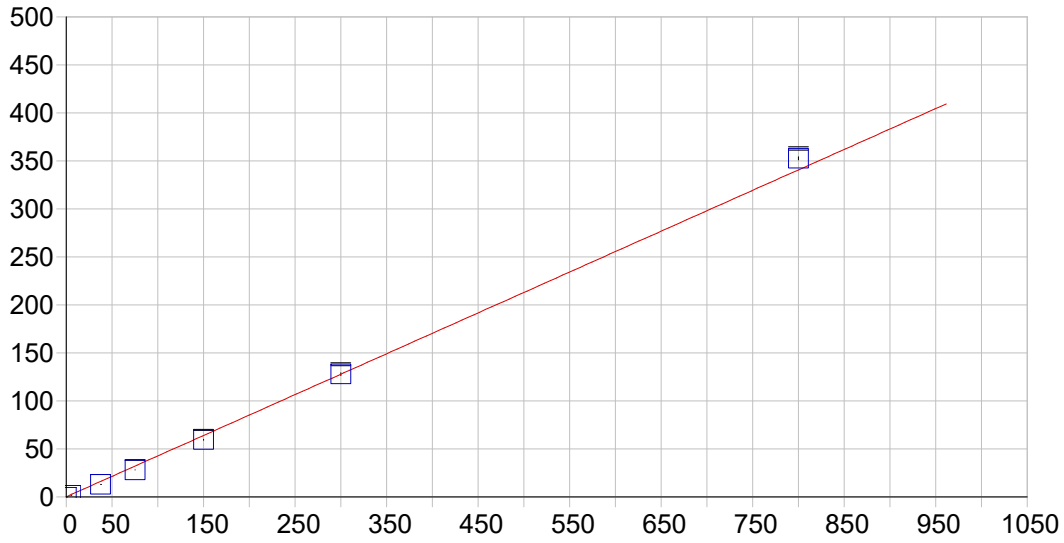
Ag 328.068 {103}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001266	Re-Slope:	1.000000
A1 (Gain):	0.316682	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999877	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.001410		
Predicted MQL:	0.004699		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00127	.000	1
S1	.01000	.00842	-.002	-15.8	.00393	.000	1
S2	.31250	.30040	-.012	-3.87	.09497	.000	1
S3	.62500	.61772	-.007	-1.16	.19404	.001	1
S4	1.2500	1.2439	-.006	-.490	.38948	.001	1
S5	2.5000	2.5271	.027	1.08	.79015	.002	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



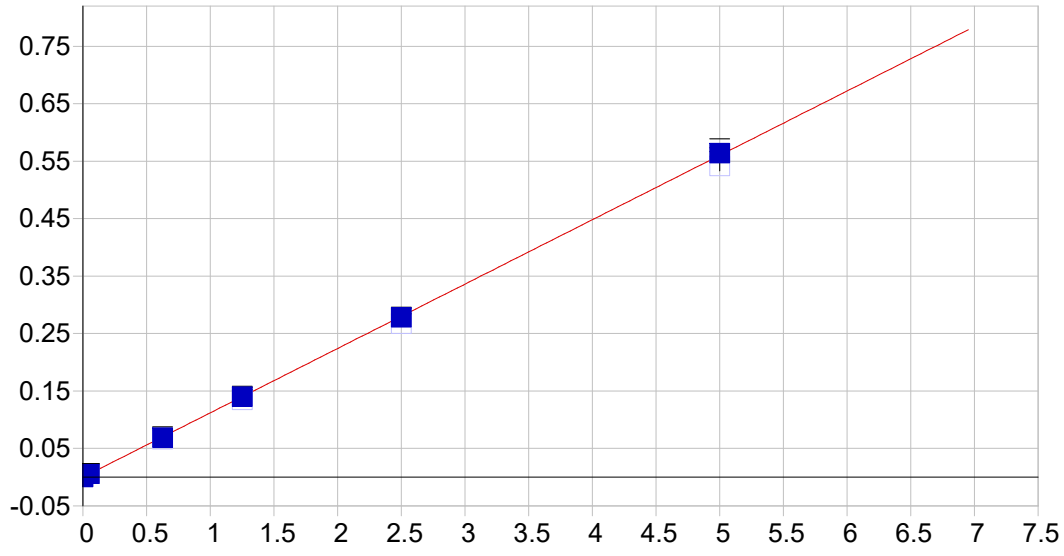
Na 818.326 { 41}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.145186	Re-Slope:	1.000000
A1 (Gain):	0.425644	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998291	Status:	OK.
Std Error of Est:	0.077045		
Predicted MDL:	0.025576		
Predicted MQL:	0.085253		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00330	.003	.000	.14659	.002	1
S1	5.0000	3.4307	-1.57	-31.4	1.6054	.018	1
S2	37.500	30.445	-7.05	-18.8	13.104	.026	1
S3	75.000	65.707	-9.29	-12.4	28.113	.153	1
S4	150.00	139.60	-10.4	-6.94	59.563	.413	1
S5	300.00	300.16	.163	.054	127.91	1.46	1
S6	800.00	828.16	28.2	3.52	352.65	1.61	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



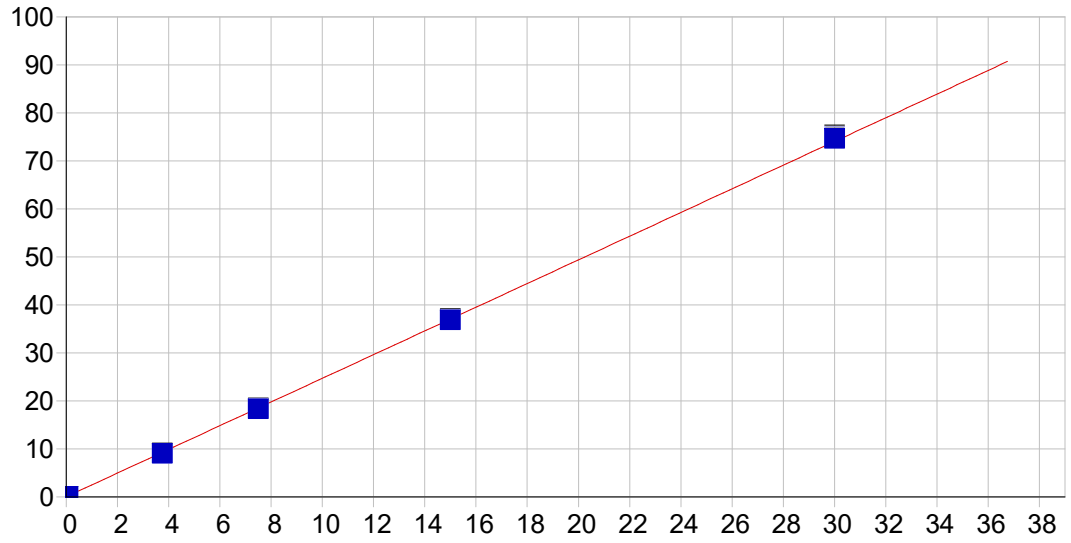
V 292.402 {115}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000038	Re-Slope:	1.000000
A1 (Gain):	0.112037	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.010512		
Predicted MQL:	0.035039		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00004	.002	1
S1	.05000	.04908	-.001	-1.85	.00544	.001	1
S2	.62500	.61438	-.011	-1.70	.06599	.002	1
S3	1.2500	1.2492	-.001	-.065	.13430	.001	1
S4	2.5000	2.4805	-.019	-.779	.26665	.001	1
S5	5.0000	5.0319	.032	.638	.54127	.008	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



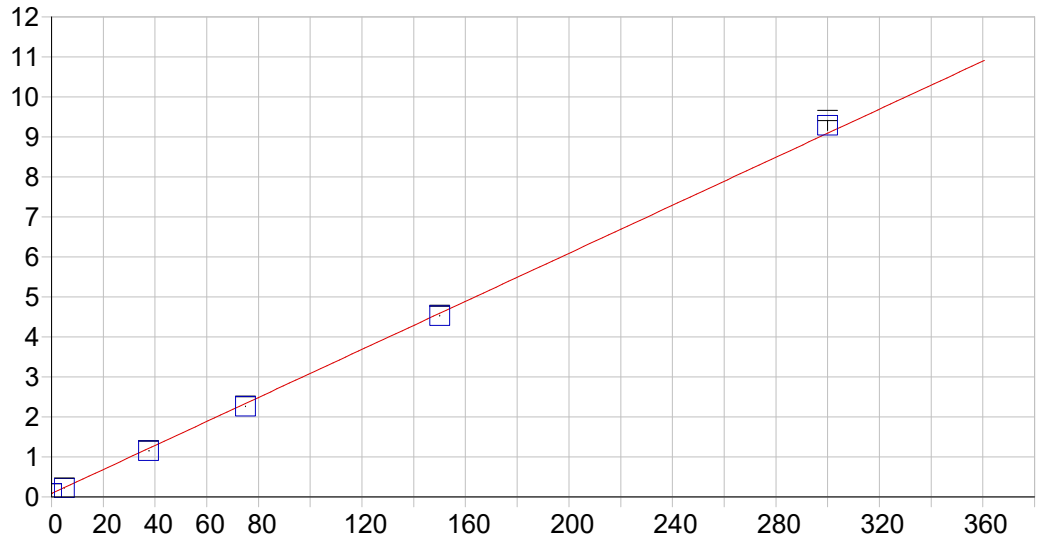
Zn 213.856 {158}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.037870	Re-Slope:	1.000000
A1 (Gain):	2.467046	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999941	Status:	OK.
Std Error of Est:	0.001918		
Predicted MDL:	0.000619		
Predicted MQL:	0.002064		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.03789	.004	1
S1	.06000	.05370	-.006	-10.5	.17081	.000	1
S2	3.7500	3.6518	-.098	-2.62	9.0923	.028	1
S3	7.5000	7.4262	-.074	-.985	18.449	.061	1
S4	15.000	14.916	-.084	-.559	37.018	.103	1
S5	30.000	30.262	.262	.874	75.058	.342	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



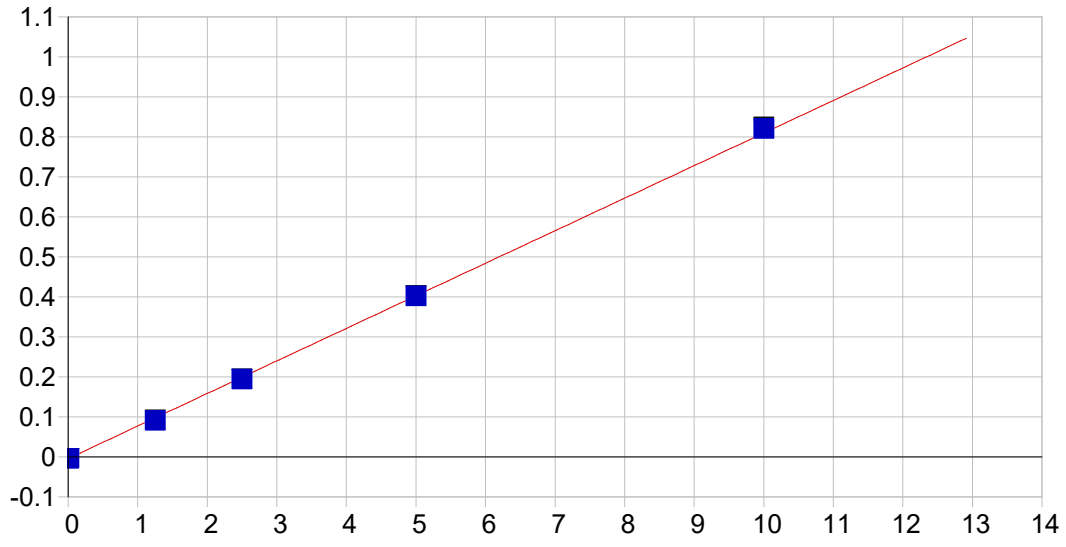
K 769.896 { 44}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.084576	Re-Slope:	1.000000
A1 (Gain):	0.030024	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999666	Status:	OK.
Std Error of Est:	0.001600		
Predicted MDL:	0.176191		
Predicted MQL:	0.587304		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00079	.001	.000	.08460	.006	1
S1	5.0000	4.5737	-.426	-8.53	.22190	.005	1
S2	37.500	35.563	-1.94	-5.17	1.1523	.003	1
S3	75.000	72.648	-2.35	-3.14	2.2658	.009	1
S4	150.00	148.11	-1.89	-1.26	4.5316	.013	1
S5	300.00	306.60	6.60	2.20	9.2900	.129	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



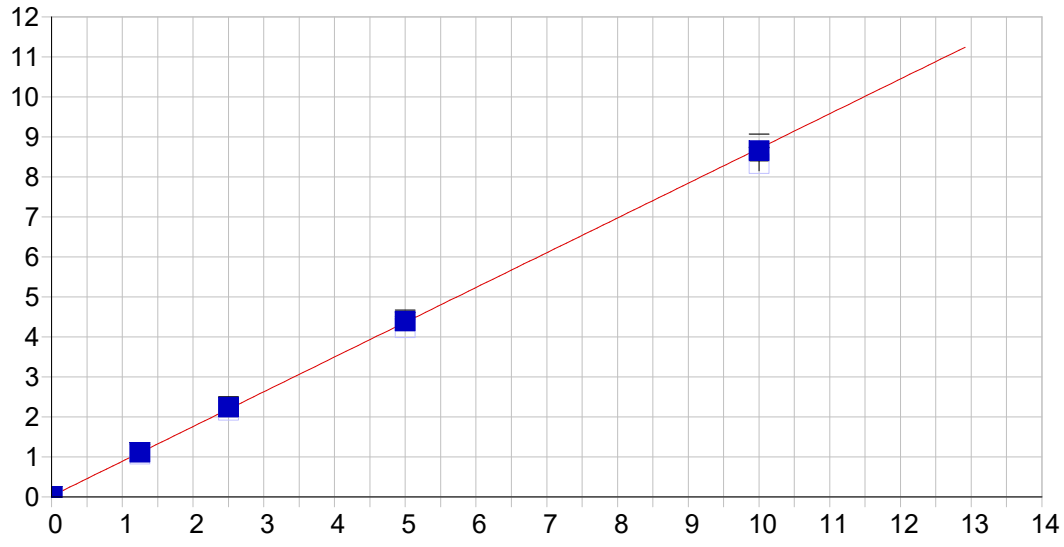
P 177.495 {490}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004186	Re-Slope:	1.000000
A1 (Gain):	0.081379	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999778	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.003422		
Predicted MQL:	0.011405		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00419	.000	1
S1	.01000	.00831	-.002	-16.9	-.00351	.000	1
S2	1.2500	1.1736	-.076	-6.11	.09118	.001	1
S3	2.5000	2.4419	-.058	-2.32	.19424	.000	1
S4	5.0000	4.9950	-.005	-.099	.40171	.001	1
S5	10.000	10.141	.141	1.41	.81990	.004	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



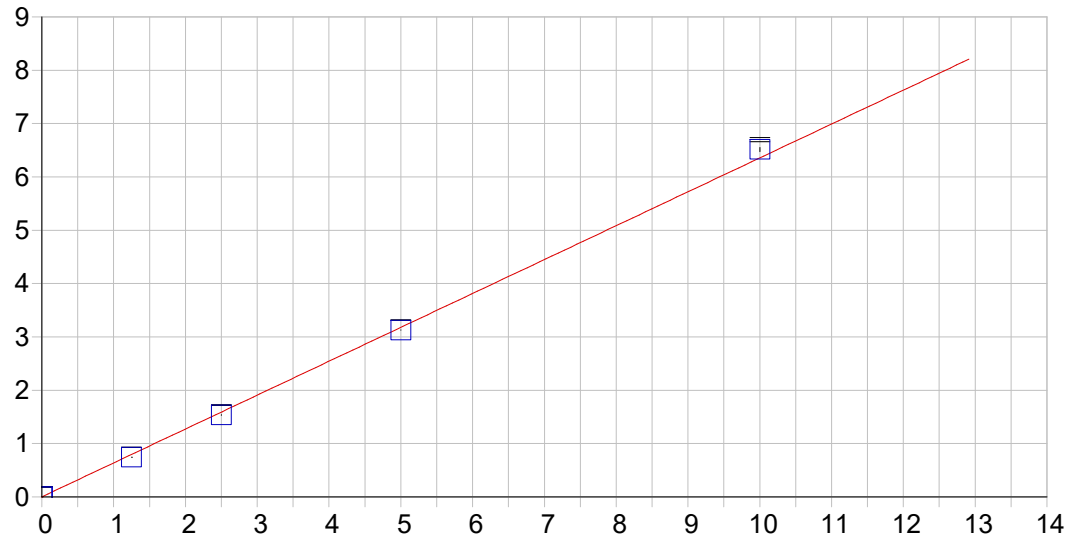
B 249.678 {135}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.021015	Re-Slope:	1.000000
A1 (Gain):	0.868994	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998268	Status:	OK.
Std Error of Est:	0.000826		
Predicted MDL:	0.002232		
Predicted MQL:	0.007439		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.02104	.002	1
S1	.01000	-.01416	-.024	-242.	.00866	.002	1
S2	1.2500	1.2513	.001	.103	1.0671	.002	1
S3	2.5000	2.5564	.056	2.26	2.1599	.010	1
S4	5.0000	5.0306	.031	.613	4.2274	.031	1
S5	10.000	9.9366	-.063	-.634	8.3254	.172	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



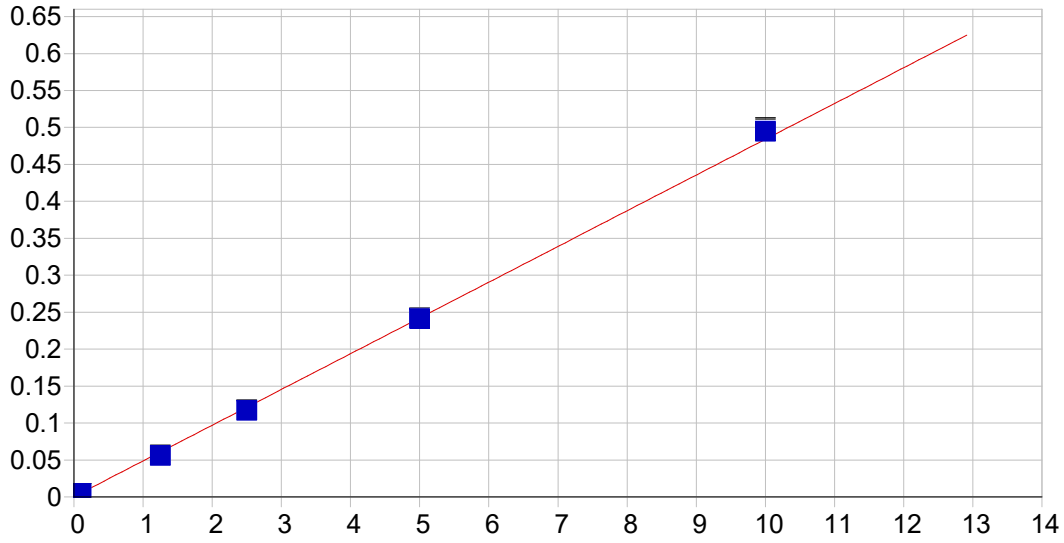
Mo 202.030 {467}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001919	Re-Slope:	1.000000
A1 (Gain):	0.635437	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999580	Status:	OK.
Std Error of Est:	0.000309		
Predicted MDL:	0.000741		
Predicted MQL:	0.002472		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00192	.000	1
S1	.01000	.00917	-.001	-8.32	.00774	.000	1
S2	1.2500	1.1691	-.081	-6.47	.74479	.001	1
S3	2.5000	2.4154	-.085	-3.39	1.5367	.004	1
S4	5.0000	4.9171	-.083	-1.66	3.1264	.003	1
S5	10.000	10.249	.249	2.49	6.5147	.040	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



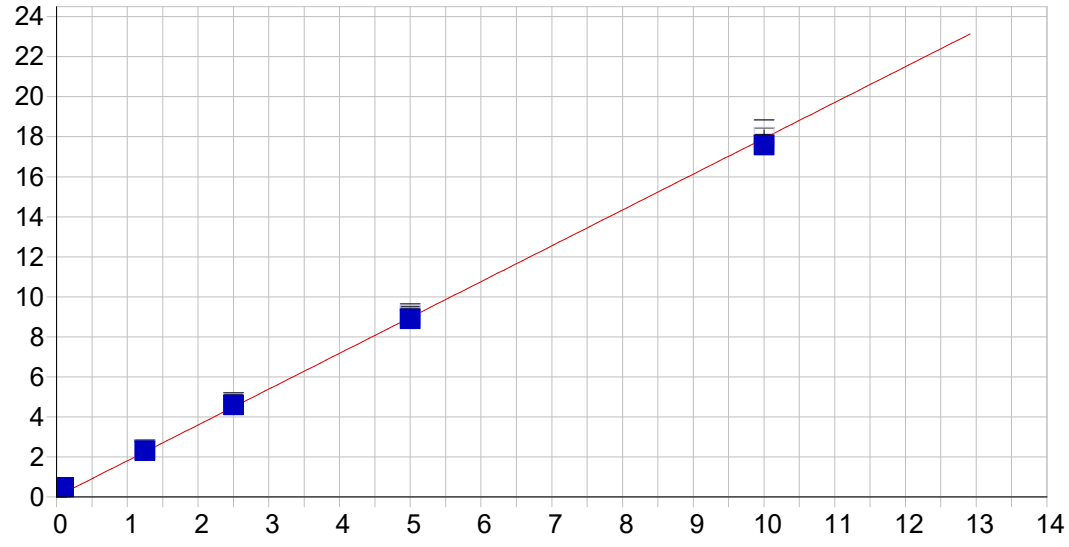
S 182.034 {485}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000327	Re-Slope:	1.000000
A1 (Gain):	0.048368	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999573	Status:	OK.
Std Error of Est:	0.000075		
Predicted MDL:	0.005066		
Predicted MQL:	0.016888		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00033	.000	1
S1	.10000	.09161	-.008	-8.39	.00476	.000	1
S2	1.2500	1.1525	-.098	-7.80	.05626	.000	1
S3	2.5000	2.4102	-.090	-3.59	.11729	.001	1
S4	5.0000	4.9815	-.018	-.369	.24205	.000	1
S5	10.000	10.214	.214	2.14	.49592	.004	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



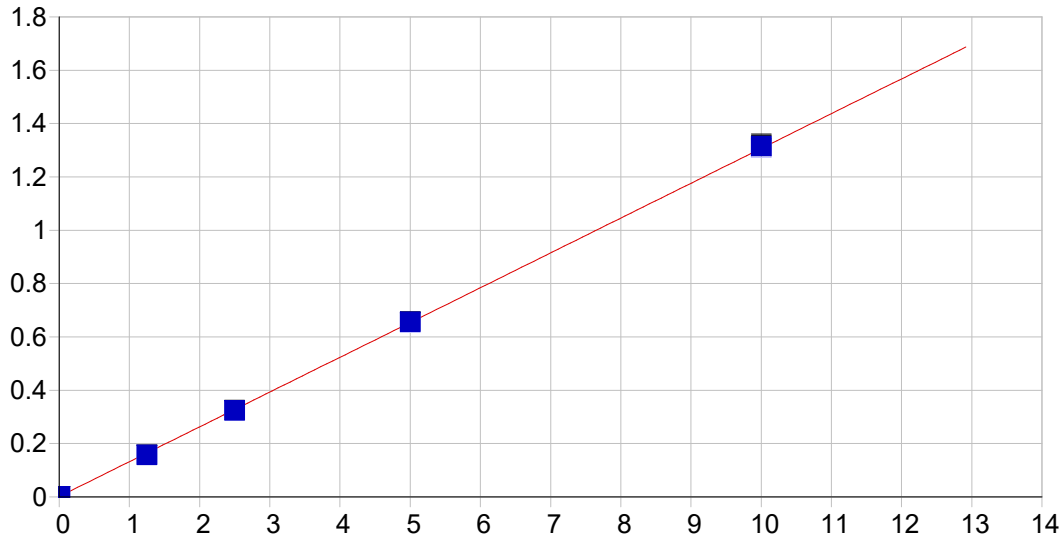
Si 251.611 {134}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.013886	Re-Slope:	1.000000
A1 (Gain):	1.790648	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.993739	Status:	OK.
Std Error of Est:	0.010941		
Predicted MDL:	0.001120		
Predicted MQL:	0.003733		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00016	-.000	.000	.01360	.003	1
S1	.10000	.25586	.156	156.	.47457	.006	1
S2	1.2500	1.2799	.030	2.40	2.3566	.014	1
S3	2.5000	2.5534	.053	2.14	4.6878	.025	1
S4	5.0000	4.9552	-.045	-.896	9.0901	.056	1
S5	10.000	9.8069	-.193	-1.93	17.981	.361	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



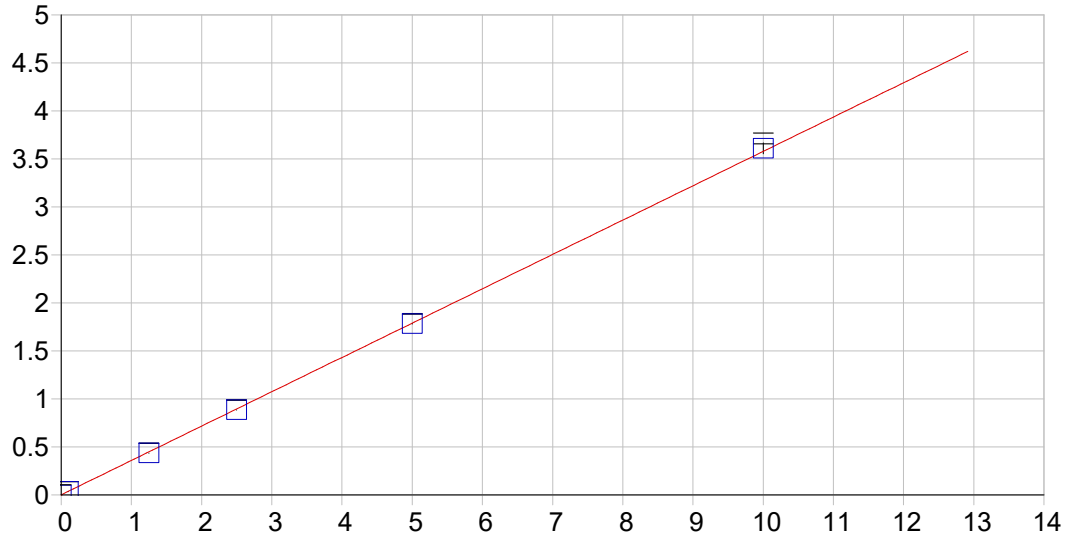
Sn 189.989 {478}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001564	Re-Slope:	1.000000
A1 (Gain):	0.130498	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999843	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.001688		
Predicted MQL:	0.005626		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00156	.000	1
S1	.00700	.00278	-.004	-60.3	.00189	.000	1
S2	1.2500	1.1943	-.056	-4.45	.15660	.000	1
S3	2.5000	2.4739	-.026	-1.04	.32277	.001	1
S4	5.0000	5.0162	.016	.324	.65290	.001	1
S5	10.000	10.070	.070	.696	1.3091	.008	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



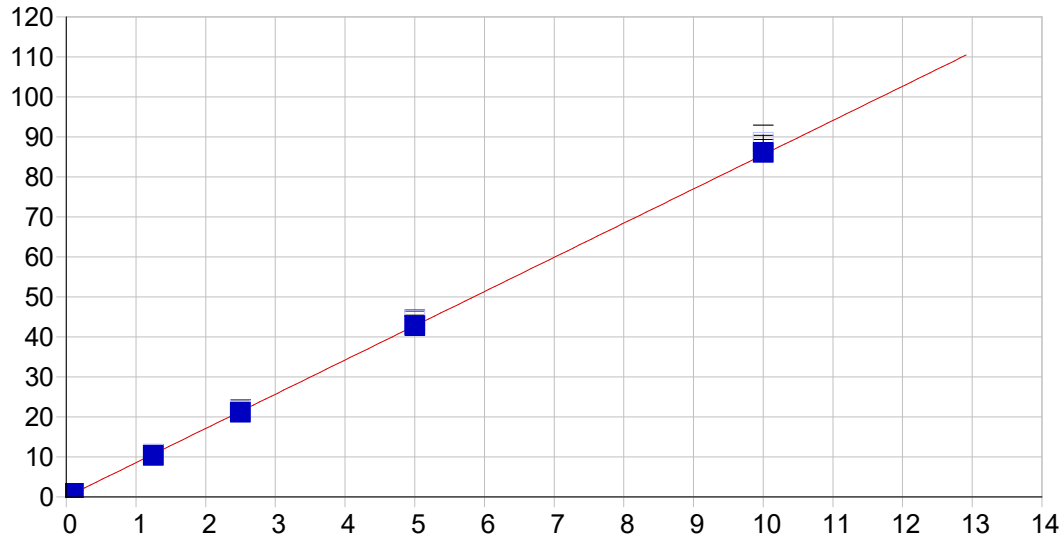
Ti 336.121 {100}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001301	Re-Slope:	1.000000
A1 (Gain):	0.357653	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999937	Status:	OK.
Std Error of Est:	0.000213		
Predicted MDL:	0.004534		
Predicted MQL:	0.015113		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00130	.001	1
S1	.10000	.09675	-.003	-3.25	.03590	.002	1
S2	1.2500	1.2131	-.037	-2.95	.43516	.001	1
S3	2.5000	2.4716	-.028	-1.14	.88528	.003	1
S4	5.0000	4.9811	-.019	-.379	1.7828	.003	1
S5	10.000	10.088	.088	.875	3.6091	.057	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



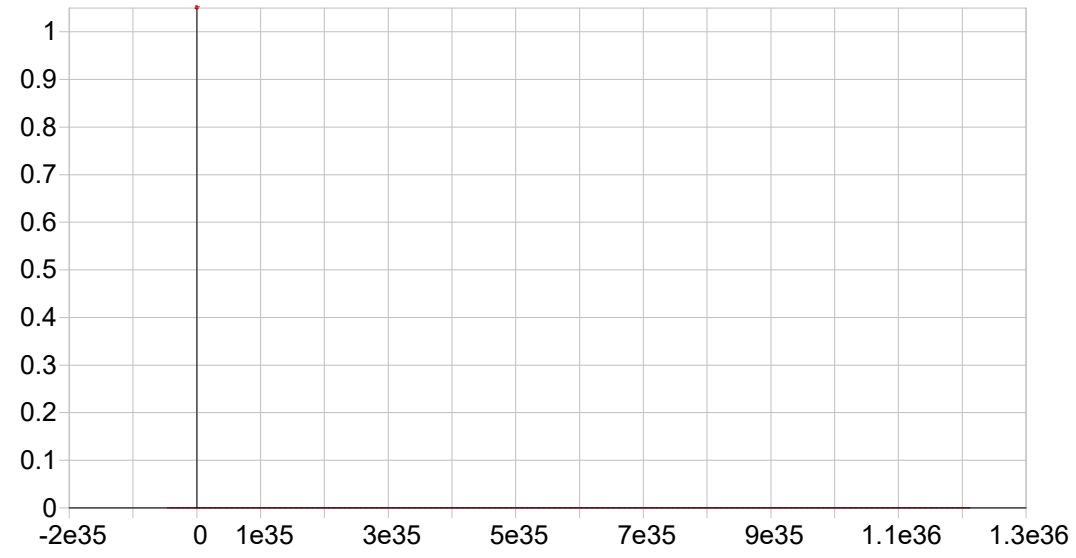
Sr 407.771 { 83}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002994	Re-Slope:	1.000000
A1 (Gain):	8.554425	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.005345		
Predicted MDL:	0.000272		
Predicted MQL:	0.000906		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00300	.002	1
S1	.10000	.10320	.003	3.20	.88669	.004	1
S2	1.2500	1.2032	-.047	-3.74	10.616	.018	1
S3	2.5000	2.4720	-.028	-1.12	21.791	.063	1
S4	5.0000	5.0061	.006	.122	44.110	.147	1
S5	10.000	10.066	.066	.656	88.674	1.81	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

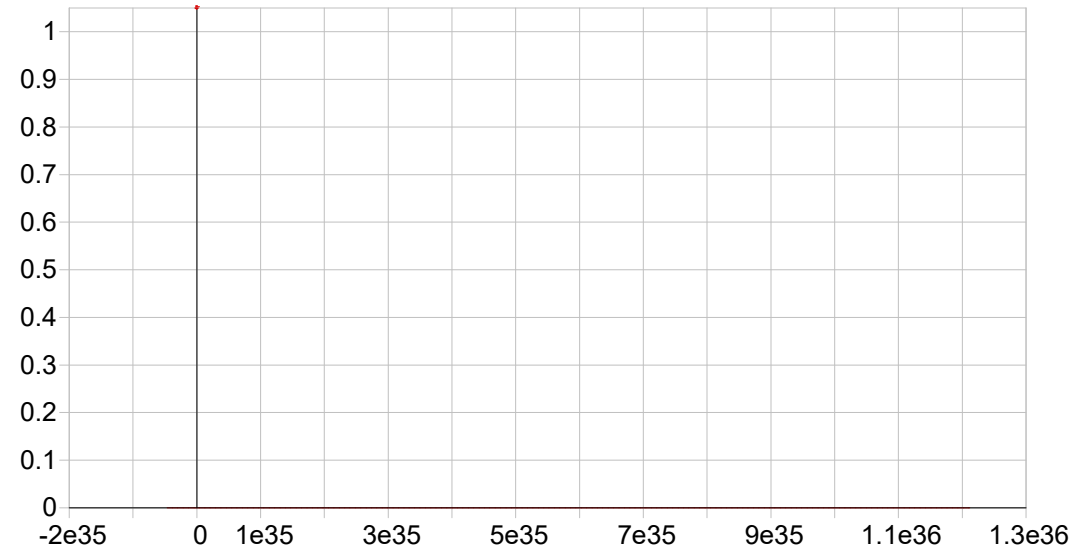


Y 224.306 {450}*

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}*

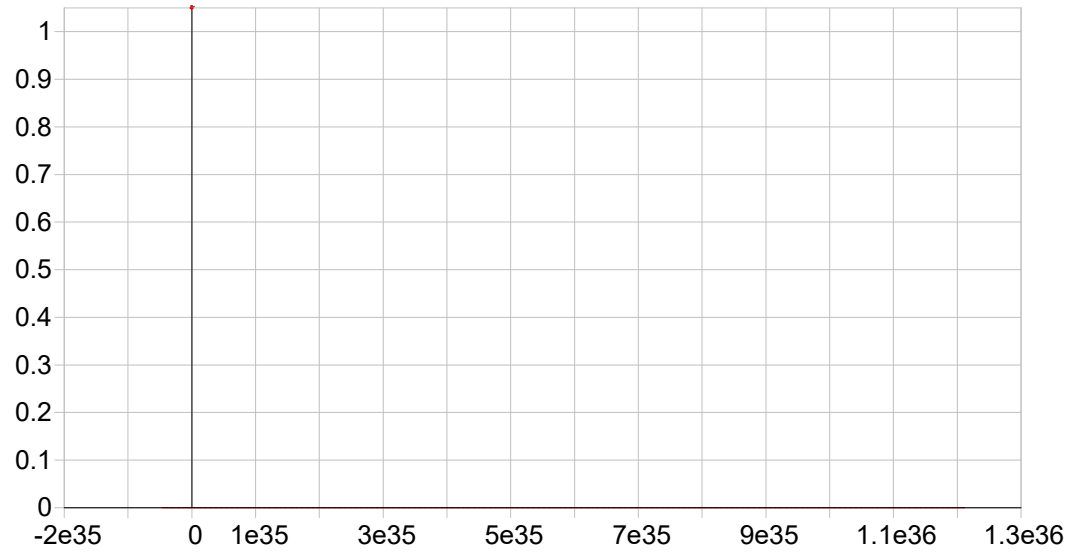
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:mohan
On:1/2/2025 2:18:27 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



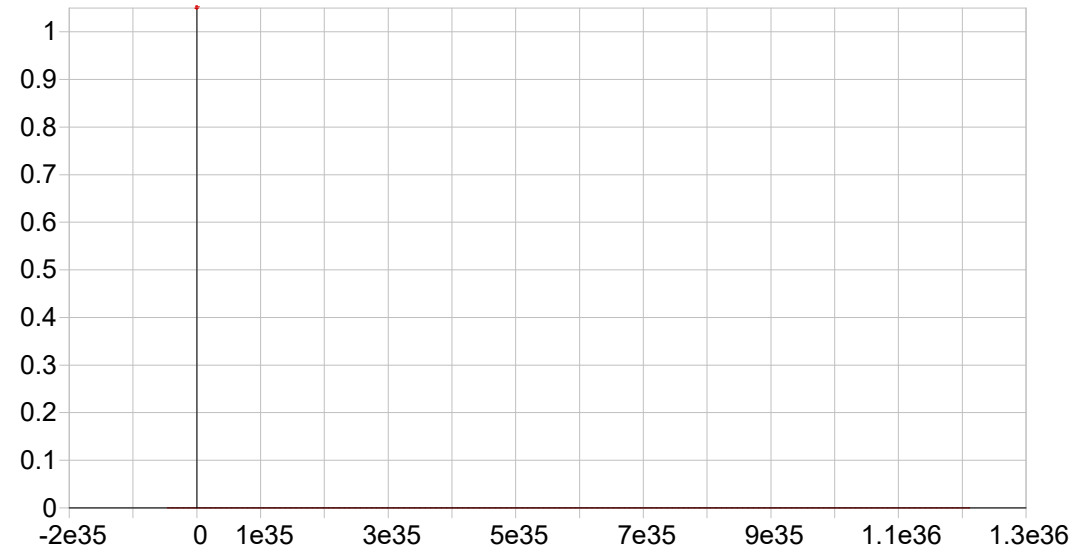
Y 371.030 { 91}*

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

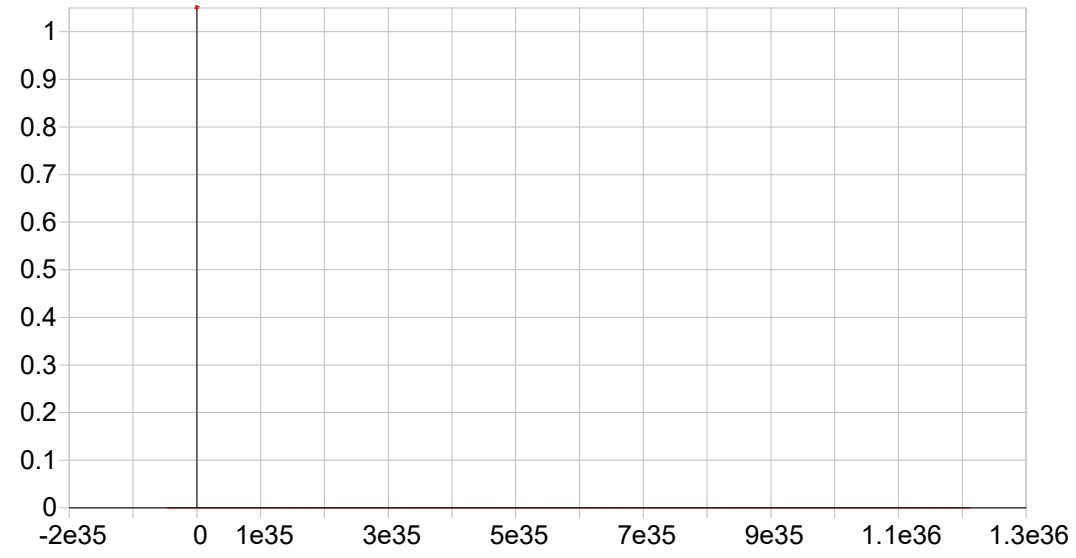
Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5



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



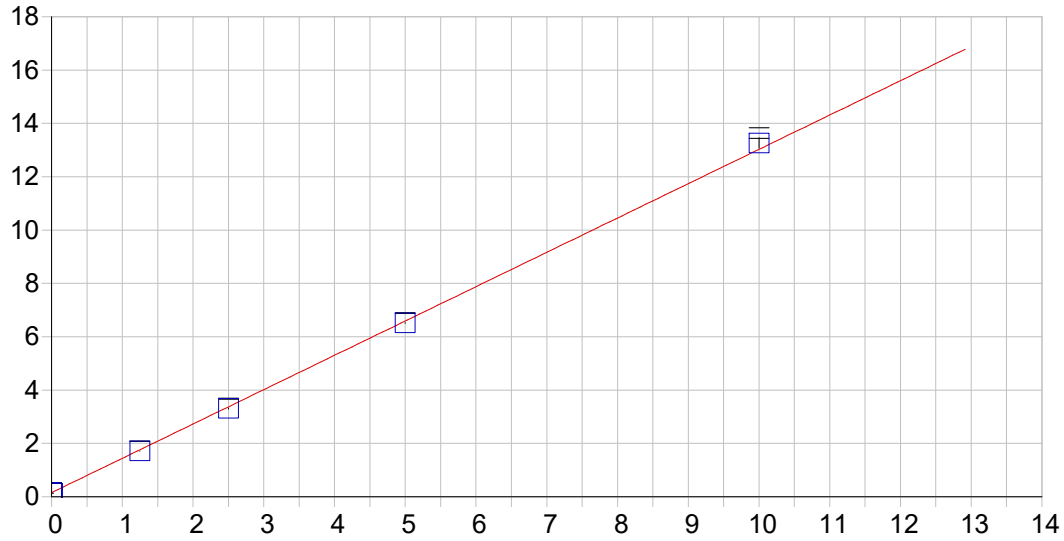
In 230.606 {446}*

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:mohan
On:1/2/2025 2:18:27 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



Li 670.784 { 50}

Date of Fit:	12/31/2024 12:50:58	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.153812	Re-Slope:	1.000000
A1 (Gain):	1.287354	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997962	Status:	OK.
Std Error of Est:	0.001690		
Predicted MDL:	0.003860		
Predicted MQL:	0.012866		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	.15386	.004	1
S5	10.000	10.183	.183	1.83	13.263	.195	1
S4	5.0000	4.9387	-.061	-1.23	6.5116	.012	1
S3	2.5000	2.4517	-.048	-1.93	3.3100	.016	1
S2	1.2500	1.2089	-.041	-3.29	1.7101	.010	1
S1	.01500	-.01746	-.032	-216.	.13134	.005	1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S0 Acquired: 12/31/2024 12:16:41 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	.70122	-.00013	-.00016	.00051	.00062	-.00238	.05997	.00330
Stddev	.35094	.00016	.00029	.00016	.00010	.00318	.00567	.00206
%RSD	50.048	119.13	181.83	32.352	16.486	133.31	9.4554	62.493
#1	1.0423	-.00008	-.00049	.00034	.00067	-.00536	.06183	.00117
#2	.72021	-.00031	-.00002	.00066	.00050	.00096	.06448	.00528
#3	.34117	-.00001	.00003	.00052	.00069	-.00275	.05360	.00345

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	.00111	.00574	.00042	-.00037	.00228	.00163	.00524	-.00089
Stddev	.00055	.00192	.00011	.00029	.00065	.00054	.00079	.00101
%RSD	49.477	33.497	26.524	77.387	28.667	33.136	15.012	114.40
#1	.00062	.00788	.00033	-.00027	.00182	.00129	.00436	.00028
#2	.00170	.00516	.00039	-.00070	.00302	.00135	.00585	-.00159
#3	.00100	.00417	.00055	-.00015	.00199	.00225	.00552	-.00134

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	-.00117	.00127	.14659	-.00004	.03789	.08460	-.00419	.02104
Stddev	.00065	.00009	.00248	.00155	.00412	.00641	.00027	.00171
%RSD	55.953	6.7247	1.6891	4091.8	10.881	7.5794	6.3351	8.1221
#1	-.00046	.00135	.14523	-.00182	.04265	.08209	-.00414	.02081
#2	-.00129	.00118	.14509	.00103	.03544	.09189	-.00395	.02285
#3	-.00175	.00126	.14945	.00067	.03558	.07982	-.00447	.01945

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00192	.00033	.01360	.00156	.00130	.00300	.15386
Stddev	.00040	.00018	.00273	.00021	.00126	.00210	.00363
%RSD	20.873	53.536	20.046	13.144	96.735	69.817	2.3565
#1	.00167	.00021	.01675	.00138	.00232	.00540	.15059
#2	.00238	.00024	.01191	.00179	.00170	.00156	.15776
#3	.00171	.00053	.01216	.00153	-.00011	.00204	.15321

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S0 Acquired: 12/31/2024 12:16:41 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	1646.4	20195.	1991.1	1362.2	1925.0
Stddev	2.8	45.	6.8	6.0	1.8
%RSD	.16929	.22523	.34041	.43782	.09273
#1	1649.6	20150.	1992.6	1355.3	1923.9
#2	1644.8	20194.	1983.7	1365.4	1927.1
#3	1644.8	20241.	1997.0	1365.9	1924.1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/31/2024 12:20:45 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	1.9279	.00171	.00210	.00214	.00972	.02119	.95285	.06587
Stddev	.6195	.00009	.00071	.00022	.00073	.00072	.00524	.00140
%RSD	32.134	5.2245	33.978	10.319	7.5021	3.4125	.54969	2.1193
#1	2.0358	.00169	.00254	.00190	.00947	.02048	.95580	.06735
#2	1.2615	.00180	.00249	.00221	.01054	.02193	.95595	.06458
#3	2.4863	.00162	.00128	.00232	.00915	.02115	.94680	.06568

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	.02109	.28174	.00334	.05646	.00777	.00366	.01184	.05420
Stddev	.00036	.00261	.00015	.00046	.00219	.00019	.00032	.00101
%RSD	1.7294	.92559	4.3601	.81550	28.201	5.0747	2.6713	1.8690
#1	.02150	.28172	.00343	.05612	.01020	.00363	.01216	.05303
#2	.02096	.28436	.00317	.05698	.00715	.00385	.01153	.05485
#3	.02080	.27914	.00340	.05627	.00595	.00349	.01182	.05472

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	.02529	.00393	1.6054	.00544	.17081	.22190	-.00351	.00866
Stddev	.00016	.00020	.0185	.00104	.00020	.00548	.00017	.00245
%RSD	.64062	5.0299	1.1508	19.037	.11872	2.4693	4.8401	28.241
#1	.02516	.00414	1.6248	.00592	.17104	.22189	-.00338	.01016
#2	.02524	.00390	1.5880	.00615	.17067	.21642	-.00370	.00584
#3	.02547	.00375	1.6035	.00426	.17072	.22738	-.00344	.00999

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00774	.00476	.47457	.00189	.03590	.88669	.13134
Stddev	.00041	.00009	.00589	.00010	.00226	.00379	.00461
%RSD	5.2579	1.8221	1.2421	5.4586	6.2884	.42714	3.5127
#1	.00753	.00484	.47604	.00200	.03851	.88371	.13539
#2	.00749	.00467	.46808	.00181	.03456	.89095	.12632
#3	.00821	.00477	.47959	.00185	.03464	.88542	.13230

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S1 Acquired: 12/31/2024 12:20:45 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	1645.2	20288.	1994.0	1361.5	1936.1
Stddev	2.1	117.	8.9	8.5	2.8
%RSD	.12586	.57851	.44725	.62119	.14460
#1	1643.5	20228.	1991.1	1352.9	1933.5
#2	1644.6	20212.	2004.0	1361.7	1935.6
#3	1647.5	20423.	1986.8	1369.8	1939.1

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/31/2024 12:24:50 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	158.33	.11514	1.5536	.07871	.19772	4.3652	10.840	1.5078
Stddev	.57	.00008	.0039	.00042	.00052	.0020	.023	.0045
%RSD	.36180	.07188	.25151	.53494	.26080	.04655	.21404	.30143
#1	157.85	.11506	1.5513	.07916	.19714	4.3630	10.856	1.5127
#2	158.18	.11513	1.5581	.07833	.19793	4.3670	10.851	1.5069
#3	158.97	.11523	1.5513	.07863	.19811	4.3656	10.814	1.5038

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	2.5132	3.3785	1.1893	.69261	.51160	.88667	1.5804	.68463
Stddev	.0035	.0028	.0008	.00128	.00139	.00216	.0063	.00298
%RSD	.14097	.08346	.06292	.18458	.27132	.24361	.40203	.43591
#1	2.5100	3.3800	1.1885	.69302	.51157	.88687	1.5848	.68675
#2	2.5170	3.3753	1.1894	.69363	.51023	.88872	1.5832	.68122
#3	2.5125	3.3803	1.1900	.69118	.51301	.88441	1.5731	.68593

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	.41123	.09497	13.104	.06599	9.0923	1.1523	.09118	1.0671
Stddev	.00078	.00015	.026	.00176	.0279	.0027	.00057	.0019
%RSD	.18953	.15428	.19497	2.6601	.30636	.23329	.62823	.17836
#1	.41047	.09486	13.133	.06491	9.0843	1.1515	.09052	1.0673
#2	.41203	.09491	13.090	.06504	9.0693	1.1501	.09142	1.0651
#3	.41119	.09514	13.089	.06801	9.1232	1.1553	.09158	1.0688

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.74479	.05626	2.3566	.15660	.43516	10.616	1.7101
Stddev	.00076	.00031	.0140	.00020	.00136	.018	.0096
%RSD	.10240	.54558	.59494	.12722	.31250	.17041	.56195
#1	.74438	.05610	2.3726	.15661	.43401	10.613	1.7012
#2	.74432	.05608	2.3506	.15680	.43666	10.600	1.7203
#3	.74567	.05662	2.3466	.15640	.43480	10.636	1.7088

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S2 Acquired: 12/31/2024 12:24:50 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	1623.2	20114.	2017.4	1341.4	1847.4
Stddev	1.9	31.	8.5	5.0	3.6
%RSD	.11411	.15435	.42124	.37547	.19636
#1	1624.6	20103.	2007.6	1341.3	1847.8
#2	1621.1	20150.	2022.4	1346.5	1843.5
#3	1623.9	20091.	2022.2	1336.4	1850.7

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/31/2024 12:28:40 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	315.89	.23390	3.1867	.16178	.40797	8.8141	21.791	2.9980
Stddev	2.11	.00073	.0107	.00102	.00120	.0204	.030	.0156
%RSD	.66689	.31315	.33409	.63094	.29326	.23105	.13649	.51939
#1	313.48	.23321	3.1768	.16141	.40751	8.7993	21.796	3.0089
#2	316.79	.23383	3.1853	.16101	.40707	8.8057	21.759	2.9802
#3	317.39	.23467	3.1979	.16294	.40933	8.8373	21.818	3.0049

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	5.1357	6.7791	2.4102	1.4082	1.0206	1.7663	3.1518	1.3712
Stddev	.0135	.0224	.0057	.0051	.0043	.0010	.0050	.0034
%RSD	.26347	.33101	.23591	.36077	.42044	.05607	.15789	.24532
#1	5.1256	6.7731	2.4036	1.4030	1.0206	1.7658	3.1461	1.3746
#2	5.1305	6.7603	2.4131	1.4085	1.0163	1.7674	3.1542	1.3679
#3	5.1511	6.8039	2.4138	1.4132	1.0248	1.7656	3.1552	1.3711

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	.84566	.19404	28.113	.13430	18.449	2.2658	.19424	2.1599
Stddev	.00039	.00109	.153	.00096	.061	.0095	.00016	.0101
%RSD	.04611	.56043	.54434	.71723	.32851	.41855	.08319	.46710
#1	.84530	.19281	28.196	.13407	18.514	2.2642	.19406	2.1646
#2	.84560	.19487	27.936	.13348	18.439	2.2572	.19439	2.1483
#3	.84607	.19444	28.206	.13536	18.394	2.2760	.19426	2.1668

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.5367	.11729	4.6878	.32277	.88528	21.791	3.3100
Stddev	.0044	.00059	.0249	.00079	.00292	.063	.0161
%RSD	.28565	.49955	.53111	.24462	.32950	.29133	.48724
#1	1.5344	.11662	4.6948	.32194	.88202	21.784	3.3090
#2	1.5340	.11754	4.6601	.32285	.88765	21.732	3.2944
#3	1.5418	.11771	4.7084	.32351	.88616	21.858	3.3266

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S3 Acquired: 12/31/2024 12:28:40 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	1562.6	19633.	2014.2	1286.9	1766.8
Stddev	6.8	94.	4.9	4.4	6.0
%RSD	.43412	.47668	.24572	.33985	.33781
#1	1557.1	19736.	2013.5	1289.4	1762.8
#2	1570.2	19553.	2019.5	1281.9	1773.6
#3	1560.7	19609.	2009.7	1289.4	1763.8

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/31/2024 12:32:18 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	613.39	.46522	6.4414	.32666	.83373	17.655	43.518	5.8566
Stddev	2.66	.00084	.0083	.00101	.00096	.043	.066	.0219
%RSD	.43444	.17962	.12857	.30864	.11549	.24123	.15153	.37401
#1	610.32	.46442	6.4454	.32583	.83478	17.648	43.524	5.8639
#2	614.99	.46516	6.4319	.32636	.83290	17.700	43.580	5.8739
#3	614.88	.46609	6.4469	.32778	.83349	17.615	43.449	5.8319

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	10.257	13.460	4.7523	2.7996	2.0304	3.4928	6.2096	2.7142
Stddev	.007	.043	.0124	.0017	.0049	.0085	.0089	.0067
%RSD	.07075	.32065	.26158	.06202	.24123	.24213	.14265	.24530
#1	10.254	13.482	4.7385	2.7993	2.0357	3.4959	6.1996	2.7132
#2	10.252	13.487	4.7626	2.7981	2.0293	3.4993	6.2164	2.7213
#3	10.265	13.410	4.7559	2.8015	2.0261	3.4832	6.2128	2.7081

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	1.6947	.38948	59.563	.26665	37.018	4.5316	.40171	4.2274
Stddev	.0017	.00091	.413	.00092	.103	.0126	.00109	.0311
%RSD	.09780	.23388	.69298	.34344	.27922	.27743	.27074	.73592
#1	1.6937	.38846	59.677	.26749	37.015	4.5256	.40102	4.2091
#2	1.6937	.38976	59.907	.26678	37.122	4.5461	.40297	4.2633
#3	1.6966	.39022	59.105	.26567	36.916	4.5232	.40116	4.2098

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.1264	.24205	9.0901	.65290	1.7828	44.110	6.5116
Stddev	.0034	.00025	.0562	.00075	.0031	.147	.0118
%RSD	.10917	.10528	.61797	.11487	.17450	.33409	.18130
#1	3.1303	.24231	9.0519	.65279	1.7839	44.148	6.5194
#2	3.1238	.24204	9.1546	.65221	1.7852	44.235	6.5174
#3	3.1252	.24180	9.0638	.65370	1.7793	43.948	6.4980

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S4 Acquired: 12/31/2024 12:32:18 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	1479.7	19121.	2012.6	1222.2	1675.7
Stddev	4.7	50.	14.3	6.4	4.4
%RSD	.32065	.25990	.70839	.52653	.25975
#1	1474.3	19080.	2004.3	1218.5	1671.2
#2	1483.3	19106.	2004.4	1218.4	1679.9
#3	1481.5	19176.	2029.0	1229.6	1676.0

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/31/2024 12:35:57 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	1182.7	.90768	12.936	.66666	1.7465	36.201	88.824	11.635
Stddev	1.7	.00649	.080	.00317	.0098	.478	1.191	.248
%RSD	.14488	.71480	.61529	.47561	.56216	1.3209	1.3408	2.1354
#1	1181.6	.90047	12.847	.66318	1.7360	35.906	88.170	11.541
#2	1181.7	.90953	12.963	.66742	1.7479	35.944	88.104	11.447
#3	1184.6	.91304	12.999	.66939	1.7555	36.752	90.199	11.917

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	20.283	27.004	9.3447	5.5535	4.0986	6.9668	12.404	5.4875
Stddev	.124	.349	.0179	.0338	.0482	.0871	.184	.0723
%RSD	.61239	1.2938	.19104	.60807	1.1767	1.2495	1.4794	1.3170
#1	20.146	26.821	9.3651	5.5162	4.0725	6.9133	12.307	5.4432
#2	20.316	26.785	9.3369	5.5621	4.0690	6.9199	12.289	5.4484
#3	20.388	27.407	9.3321	5.5821	4.1543	7.0672	12.615	5.5709

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	3.3672	.79015	127.91	.54127	75.058	9.2900	.81990	8.3254
Stddev	.0198	.00199	1.46	.00793	.342	.1295	.00367	.1719
%RSD	.58838	.25155	1.1396	1.4656	.45601	1.3936	.44717	2.0645
#1	3.3453	.79208	128.32	.53589	74.958	9.2100	.81625	8.2570
#2	3.3726	.79026	126.29	.53754	74.777	9.2207	.81988	8.1983
#3	3.3838	.78811	129.11	.55038	75.440	9.4394	.82358	8.5210

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.5147	.49592	17.981	1.3091	3.6091	88.674	13.263
Stddev	.0399	.00385	.361	.0082	.0570	1.814	.195
%RSD	.61303	.77636	2.0061	.62887	1.5805	2.0451	1.4701
#1	6.4689	.49159	17.873	1.2998	3.5730	87.389	13.145
#2	6.5327	.49721	17.687	1.3119	3.5796	87.885	13.156
#3	6.5425	.49896	18.383	1.3155	3.6749	90.749	13.488

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S5 Acquired: 12/31/2024 12:35:57 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	1362.1	18443.	1966.2	1113.1	1587.3
Stddev	6.7	116.	29.3	2.8	7.8
%RSD	.49450	.63028	1.4892	.24913	.49064
#1	1369.7	18430.	1982.6	1113.3	1596.3
#2	1357.0	18335.	1983.6	1110.2	1583.2
#3	1359.6	18566.	1932.4	1115.7	1582.4

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: S6 Acquired: 12/31/2024 12:39:52 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) 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	93.563	42.680	17.957	8.6659	352.65
Stddev	.087	.046	.014	.0189	1.61
%RSD	.09258	.10856	.07931	.21809	.45691
#1	93.463	42.718	17.969	8.6689	354.48
#2	93.607	42.695	17.960	8.6832	351.98
#3	93.619	42.628	17.941	8.6457	351.47

Int. Std.	Y_3710
Units	Cts/S
Avg	1925.0
Stddev	8.2
%RSD	.42826
#1	1915.5
#2	1930.8
#3	1928.6

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: ICV006 Acquired: 12/31/2024 13:00:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.089046	1.030706	1.008777	.9997228	.9456896	2.474549
Stddev	.006995	.002053	.002243	.0067332	.0015387	.035710
%RSD	.6423464	.1991945	.2223017	.6735021	.1627098	1.443110
#1	1.092876	1.029139	1.009781	1.006521	.9474482	2.504249
#2	1.080972	1.029949	1.006208	.999591	.9450298	2.484471
#3	1.093290	1.033030	1.010343	.993056	.9445908	2.434927

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5320317	.5447920	.5239655	10.56470	.5657880	.5207834
Stddev	.0009374	.0038034	.0004907	.02469	.0006716	.0008964
%RSD	.1761901	.6981375	.0936528	.2337276	.1186924	.1721178
#1	.5310792	.5438503	.5241242	10.53970	.5656272	.5214423
#2	.5329532	.5489778	.5234151	10.58907	.5652114	.5197627
#3	.5320626	.5415479	.5243573	10.56533	.5665253	.5211453

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5215411	10.73883	.5357825	6.283708	.5306575	.2509477
Stddev	.0065030	.05556	.0077105	.144116	.0009307	.0010369
%RSD	1.246884	.5174174	1.439104	2.293488	.1753861	.4131890
#1	.5289771	10.69997	.5333970	6.324209	.5296787	.2503013
#2	.5187279	10.80248	.5444039	6.403239	.5307625	.2521437
#3	.5169183	10.71404	.5295468	6.123674	.5315312	.2503981

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.271686	.5331944	1.011492	9.813354	F -.001235	F -.045952
Stddev	.051277	.0111586	.004156	.167863	.000371	.002540
%RSD	.5530526	2.092774	.4108796	1.710554	30.04807	5.527346
#1	9.254016	.5322366	1.015683	9.909058	-.001009	-.044944
#2	9.329461	.5448010	1.011421	9.619528	-.001033	-.048841
#3	9.231580	.5225457	1.007372	9.911476	-.001664	-.044071

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: ICV006 Acquired: 12/31/2024 13:00:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV006 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000297	F .0099096	F .0006762	F -.006855	F -.006255	F -.010071
Stddev	.000607	.0057819	.0014066	.001649	.003890	.000396
%RSD	204.3301	58.34626	208.0249	24.04870	62.19215	3.929916
#1	.000321	.0158665	-.000351	-.005793	-.010605	-.010438
#2	-.000892	.0043203	.000100	-.006018	-.003109	-.009652
#3	-.000319	.0095420	.002279	-.008754	-.005051	-.010122

Elem	Li6707
Units	ppm
Avg	F -.051132
Stddev	.003225
%RSD	6.307484
#1	-.053939
#2	-.051849
#3	-.047609

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1667.157	20438.47	2037.555	1372.724	1950.275
Stddev	5.306	12.82	14.688	5.149	4.893
%RSD	.3182902	.0627193	.7208683	.3751032	.2508832
#1	1661.346	20441.63	2041.737	1368.445	1944.679
#2	1668.378	20424.37	2021.229	1371.288	1952.397
#3	1671.746	20449.42	2049.698	1378.438	1953.748

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: ICB006 Acquired: 12/31/2024 13:04:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001819	-.001218	-.000785	-.011283	.0011402	.0151240
Stddev	.003745	.002731	.002772	.001425	.0019947	.0123717
%RSD	205.8805	224.1592	352.9684	12.62884	174.9425	81.80172
#1	.000690	.001161	.002374	-.012786	.0025231	.0091541
#2	-.000023	-.000616	-.001924	-.009951	-.001146	.0068693
#3	-.006124	-.004201	-.002807	-.011113	.002044	.0293486

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002732	-.000093	-.000115	.0310353	-.001025	-.000301
Stddev	.001729	.000033	.000081	.0374691	.000353	.000290
%RSD	63.27969	35.37168	70.58130	120.7306	34.41764	96.26138
#1	-.000745	-.000130	-.000075	.0741059	-.001064	-.000046
#2	-.003554	-.000069	-.000062	.0130526	-.000654	-.000241
#3	-.003896	-.000079	-.000208	.0059473	-.001356	-.000616

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000597	-.037756	-.009242	-.003645	-.000497	-.001428
Stddev	.009337	.021233	.000891	.093540	.000410	.000671
%RSD	1563.763	56.23655	9.641684	2566.441	82.57699	46.96258
#1	-.009326	-.055183	-.008708	.094150	-.000033	-.000709
#2	.009247	-.014108	-.008748	-.092251	-.000647	-.001539
#3	-.001712	-.043977	-.010271	-.012834	-.000810	-.002036

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.214856	-.008022	-.009948	-1.06299	.0002226	-.017557
Stddev	.021391	.003239	.000795	.09566	.0031200	.001886
%RSD	9.955918	40.36993	7.987051	8.998702	1401.370	10.74092
#1	-.230739	-.004859	-.009031	-1.14229	-.003360	-.019080
#2	-.190533	-.007877	-.010383	-1.08993	.002344	-.018144
#3	-.223297	-.011331	-.010431	-.95676	.001684	-.015448

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: ICB006 Acquired: 12/31/2024 13:04:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB006 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000879	-.001402	-.000133	F -.009394	-.001789	-.000313
Stddev	.000444	.005611	.001263	.001991	.006144	.000139
%RSD	50.58701	400.2257	947.5960	21.18916	343.3696	44.39530
#1	-.000549	.002282	-.001478	-.007297	.004321	-.000196
#2	-.001384	-.007860	.001027	-.009628	-.007967	-.000277
#3	-.000702	.001371	.000051	-.011257	-.001723	-.000467

Elem	Li6707
Units	ppm
Avg	F -.055338
Stddev	.002418
%RSD	4.368897
#1	-.053733
#2	-.058119
#3	-.054162

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1661.225	20361.03	2020.683	1373.358	1940.579
Stddev	6.251	121.68	6.867	8.838	7.209
%RSD	.3763164	.5975953	.3398249	.6435241	.3714619
#1	1654.110	20478.61	2027.010	1377.070	1932.589
#2	1663.731	20235.63	2021.659	1363.270	1942.553
#3	1665.835	20368.84	2013.381	1379.735	1946.595

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: ICSA006 Acquired: 12/31/2024 13:08:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070538	.0019532	-.009138	.0094582	.0134073	239.5197
Stddev	.0020733	.0030061	.001566	.0034547	.0059690	.7444
%RSD	29.39209	153.9039	17.14131	36.52569	44.52025	.3107720
#1	.0080391	.0021250	-.008232	.0133685	.0195118	239.7026
#2	.0084507	-.001135	-.010947	.0068193	.0075837	240.1556
#3	.0046716	.004870	-.008236	.0081870	.0131265	238.7010

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050243	.0012617	.0006473	247.5765	.0505345	.0352820
Stddev	.0014991	.0001429	.0001721	1.2754	.0006320	.0005699
%RSD	29.83717	11.32271	26.59221	.5151571	1.250645	1.615248
#1	.0065344	.0012250	.0008454	248.1014	.0500239	.0346346
#2	.0035364	.0011407	.0005353	248.5057	.0512414	.0357076
#3	.0050020	.0014193	.0005610	246.1224	.0503382	.0355039

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005230	101.0433	-.005332	257.5876	.0028720	-.005195
Stddev	.012617	.2839	.001937	.8456	.0003974	.000673
%RSD	241.2408	.2809217	36.32427	.3282723	13.83701	12.95027
#1	-.002090	101.1309	-.003704	257.8306	.0029744	-.004720
#2	-.019120	101.2730	-.007473	258.2851	.0024334	-.004901
#3	.005521	100.7260	-.004818	256.6472	.0032081	-.005965

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.173822	.0011820	-.044469	-1.46908	.0075606	F -.274589
Stddev	.015300	.0064069	.000858	.24032	.0029725	.003338
%RSD	8.802022	542.0196	1.929313	16.35832	39.31572	1.215690
#1	-.176133	-.003658	-.045324	-1.69874	.0051200	-.276783
#2	-.187834	-.001243	-.044474	-1.21937	.0108710	-.276237
#3	-.157498	.008447	-.043608	-1.48912	.0066908	-.270748

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: ICSA006 Acquired: 12/31/2024 13:08:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA006 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049187	.0145219	-.002508	.0023657	-.006865	.0039620
Stddev	.0011975	.0078259	.000946	.0002458	.004851	.0003023
%RSD	24.34659	53.89018	37.72209	10.39068	70.65791	7.628763
#1	.0038728	.0077197	-.001569	.0024888	-.010937	.0040453
#2	.0046583	.0230749	-.002494	.0025256	-.001498	.0042139
#3	.0062250	.0127711	-.003461	.0020827	-.008162	.0036269

Elem	Li6707
Units	ppm
Avg	F -.050169
Stddev	.004391
%RSD	8.751734
#1	-.055219
#2	-.047254
#3	-.048035

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1587.916	19455.58	2023.007	1312.804	1752.576
Stddev	5.967	60.63	12.344	4.776	7.447
%RSD	.3758065	.3116287	.6101934	.3638285	.4249010
#1	1591.431	19390.47	2013.570	1311.664	1757.658
#2	1581.026	19510.42	2036.977	1308.701	1744.028
#3	1591.291	19465.84	2018.474	1318.048	1756.042

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: ICSAB006 Acquired: 12/31/2024 13:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1028563	.1039387	.0455731	.0554643	.6083243	229.7453
Stddev	.0071214	.0003218	.0039942	.0092364	.0057364	.6324
%RSD	6.923609	.3095630	8.764362	16.65278	.9429915	.2752492
#1	.1045222	.1035916	.0478506	.0544356	.6076247	230.4730
#2	.1089971	.1042270	.0479076	.0651720	.6029697	229.3290
#3	.0950497	.1039975	.0409612	.0467854	.6143784	229.4340

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5412480	.5392485	1.066583	238.1908	.6109691	F .5543858
Stddev	.0034587	.0042281	.002920	.7467	.0036767	.0031954
%RSD	.6390220	.7840795	.2737866	.3134684	.6017787	.5763897
#1	.5446681	.5435293	1.064098	239.0472	.6125760	.5513914
#2	.5377520	.5350751	1.065852	237.8484	.6067626	.5540159
#3	.5413239	.5391411	1.069799	237.6766	.6135689	.5577501

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4811764	97.87285	.5291075	248.0745	1.057374	.2038909
Stddev	.0015251	.29796	.0047987	1.0182	.003094	.0015465
%RSD	.3169513	.3044407	.9069416	.4104340	.2926081	.7584747
#1	.4798275	98.03920	.5346371	249.2501	1.054938	.2040715
#2	.4828313	98.05050	.5266512	247.4994	1.056329	.2022621
#3	.4808705	97.52885	.5260342	247.4740	1.060855	.2053392

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.172990	.5259482	.9899038	-1.46931	.0063633	F -.256630
Stddev	.002257	.0063322	.0103828	.21629	.0035470	.002856
%RSD	1.304695	1.203966	1.048866	14.72069	55.74146	1.112912
#1	-.175566	.5323522	.9925705	-1.23129	.0028216	-.259717
#2	-.172039	.5196902	.9784477	-1.65384	.0063527	-.254081
#3	-.171363	.5258023	.9986931	-1.52281	.0099156	-.256092

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: ICSAB006 Acquired: 12/31/2024 13:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB006 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046991	.0226592	-.000200	.0012391	-.008923	.0034989
Stddev	.0001119	.0051669	.001628	.0014510	.004188	.0002028
%RSD	2.382252	22.80265	813.4583	117.1029	46.93368	5.796530
#1	.0047272	.0251860	-.000021	.0028134	-.006420	.0035131
#2	.0045758	.0260764	-.001911	-.000045	-.006590	.0032893
#3	.0047943	.0167152	.001331	.000949	-.013757	.0036942

Elem	Li6707
Units	ppm
Avg	F -.073183
Stddev	.004641
%RSD	6.341697
#1	-.078500
#2	-.069944
#3	-.071104

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1598.990	19506.61	2062.421	1319.740	1760.943
Stddev	8.572	101.13	6.730	9.889	8.477
%RSD	.5360633	.5184325	.3263003	.7493114	.4813991
#1	1597.956	19541.43	2054.766	1321.753	1761.023
#2	1608.031	19585.72	2067.404	1328.468	1769.380
#3	1590.982	19392.67	2065.094	1308.999	1752.426

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: CCV053 Acquired: 12/31/2024 13:32:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV053 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.881025	4.796540	24.43456	4.901896	4.886203	398.3969
Stddev	.030100	.012203	.02286	.006642	.008892	.8595
%RSD	.6166713	.2544159	.0935646	.1354935	.1819729	.2157478
#1	4.884540	4.800576	24.44125	4.894237	4.892925	397.9274
#2	4.909214	4.806214	24.45334	4.906072	4.889563	397.8743
#3	4.849322	4.782830	24.40911	4.905379	4.876121	399.3889

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.04313	.5066432	2.456092	403.5243	15.37062	2.484175
Stddev	.03814	.0025471	.005017	.0807	.04077	.005402
%RSD	.3797775	.5027354	.2042769	.0199875	.2652435	.2174539
#1	10.02030	.5088436	2.459450	403.4864	15.36202	2.485432
#2	10.02193	.5072331	2.458501	403.6169	15.41500	2.488838
#3	10.08716	.5038529	2.450325	403.4697	15.33484	2.478256

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.84459	406.6335	14.89803	402.8383	2.484295	1.250666
Stddev	.00193	1.4339	.04980	.8958	.004206	.001477
%RSD	.0130184	.3526220	.3342952	.2223777	.1693002	.1180634
#1	14.84477	406.7621	14.88776	402.4191	2.487599	1.251057
#2	14.84643	405.1396	14.85416	402.2289	2.485724	1.251907
#3	14.84258	407.9987	14.95217	403.8668	2.479560	1.249033

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	414.0266	2.485467	14.92695	151.6724	4.908805	F 4.308525
Stddev	.9293	.008362	.02451	.6795	.011402	.036620
%RSD	.2244539	.3364518	.1641712	.4480056	.2322863	.8499486
#1	415.0454	2.494205	14.92245	151.1793	4.910832	4.330902
#2	413.8088	2.477539	14.90501	151.3904	4.919058	4.328409
#3	413.2255	2.484657	14.95340	152.4475	4.896525	4.266264

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: CCV053 Acquired: 12/31/2024 13:32:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV053 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.833996	4.922661	4.976926	4.971301	4.889105	4.730855
Stddev	.003139	.015048	.034369	.011921	.024991	.006389
%RSD	.0649305	.3056961	.6905601	.2397882	.5111646	.1350509
#1	4.831390	4.908848	5.007573	4.983553	4.915564	4.733021
#2	4.837480	4.938697	4.983438	4.970607	4.885850	4.735880
#3	4.833118	4.920437	4.939768	4.959742	4.865901	4.723665

Elem	Li6707
Units	ppm
Avg	5.004156
Stddev	.018886
%RSD	.3773997
#1	4.991258
#2	4.995377
#3	5.025833

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1441.063	18444.52	1954.426	1176.366	1622.454
Stddev	2.405	63.39	2.661	7.190	1.070
%RSD	.1669073	.3436863	.1361307	.6112445	.0659514
#1	1443.048	18506.87	1951.618	1180.073	1623.189
#2	1441.752	18446.58	1956.910	1180.947	1622.946
#3	1438.388	18380.13	1954.749	1168.079	1621.227

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: CCB053 Acquired: 12/31/2024 13:36:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB053 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004078	-.002526	.0007140	-.001742	-.000123	.0795269
Stddev	.001481	.003234	.0012002	.003707	.005240	.0034545
%RSD	36.31843	128.0496	168.0931	212.8590	4274.527	4.343755
#1	-.005391	-.002314	.0019258	.001037	-.001450	.0812487
#2	-.002473	.000598	.0006903	-.000310	-.004571	.0755499
#3	-.004371	-.005860	-.000474	-.005951	.005653	.0817821

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000830	-.000063	.0000487	.0257046	-.000985	-.000024
Stddev	.001093	.000140	.0000385	.0514801	.000419	.000167
%RSD	131.6768	221.8492	79.15387	200.2757	42.53835	697.5533
#1	-.000346	-.000042	.0000930	-.009817	-.000560	.000164
#2	-.002081	.000065	.0000295	.002187	-.000997	-.000155
#3	-.000062	-.000213	.0000235	.084743	-.001399	-.000080

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021942	.0090784	-.006004	.0361114	-.000348	-.001215
Stddev	.0034226	.0367746	.000315	.0935890	.000439	.001775
%RSD	155.9848	405.0789	5.244396	259.1672	126.0592	146.0438
#1	.0061102	.0288202	-.005643	.0674972	-.000190	.000834
#2	-.000225	.0317660	-.006146	.1099735	-.000844	-.002274
#3	.000697	-.033351	-.006222	-.069136	-.000010	-.002206

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.140026	.0005662	-.001450	-.971571	.0012164	-.005594
Stddev	.037380	.0092889	.000789	.115605	.0012868	.000751
%RSD	26.69476	1640.574	54.44720	11.89876	105.7878	13.42026
#1	-.100625	.0046723	-.000547	-.884832	.0000552	-.005980
#2	-.144464	-.010068	-.002013	-.927066	.0009941	-.004729
#3	-.174988	.007094	-.001789	-1.10281	.0025998	-.006074

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: CCB053 Acquired: 12/31/2024 13:36:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB053 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000996	-.005542	.0002223	F -.009201	-.003482	-.000306
Stddev	.000620	.006517	.0010156	.000820	.002995	.000189
%RSD	62.23858	117.5841	456.8530	8.911339	86.02583	61.60976
#1	-.000596	-.012384	.0010407	-.009689	-.005206	-.000432
#2	-.000682	.000591	.0005404	-.008254	-.000023	-.000398
#3	-.001711	-.004834	-.000914	-.009660	-.005217	-.000089

Elem	Li6707
Units	ppm
Avg	F -.043545
Stddev	.003351
%RSD	7.695341
#1	-.046959
#2	-.040261
#3	-.043415

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1636.860	20107.71	1990.915	1357.963	1914.044
Stddev	2.596	111.51	7.732	11.427	4.963
%RSD	.1586167	.5545632	.3883824	.8414974	.2592932
#1	1638.072	20085.92	1981.998	1357.766	1914.605
#2	1638.628	20008.70	1994.994	1346.636	1918.703
#3	1633.879	20228.50	1995.754	1369.488	1908.825

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5027-17DLX4 Acquired: 12/31/2024 13:40:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK27 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003800	.0324690	.0191170	-.054347	-.008354	1.978990	.0124115
Stddev	.007098	.0042427	.0014133	.006456	.001499	.024128	.0016396
%RSD	186.7681	13.06703	7.392861	11.87842	17.94499	1.219232	13.20991
#1	-.011993	.0281485	.0200019	-.061714	-.006847	2.001253	.0139070
#2	.000493	.0326291	.0198620	-.049676	-.008371	1.982365	.0106584
#3	.000099	.0366295	.0174871	-.051652	-.009845	1.953351	.0126691

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003264	.0002212	660.1017	.0126323	.0430820	.0141696	10.65215
Stddev	.0001395	.0001171	7.1529	.0012713	.0006082	.0094962	.12400
%RSD	42.73362	52.93115	1.083603	10.06351	1.411738	67.01763	1.164083
#1	.0004127	.0002177	663.2009	.0134797	.0424040	.0250077	10.57170
#2	.0004011	.0001059	665.1823	.0111706	.0435794	.0073089	10.79495
#3	.0001655	.0003399	651.9219	.0132467	.0432627	.0101923	10.58980

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3414058	30.74151	.0143074	-.001909	.2067475	.0016823	.0466965
Stddev	.0016254	.45969	.0001028	.000133	.0098993	.0081648	.0008397
%RSD	.4760937	1.495335	.7188023	6.989317	4.788120	485.3212	1.798108
#1	.3432061	31.10008	.0142438	-.001870	.2157192	-.001647	.0474831
#2	.3409650	30.90118	.0144261	-.002057	.2083957	.010986	.0467941
#3	.3400462	30.22328	.0142524	-.001799	.1961275	-.004291	.0458123

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1440025	.3327827	-.025286	.0038138	7.161828	1.617223	-.000340
Stddev	.0585857	.0044315	.002379	.0006014	.018346	.013433	.002051
%RSD	40.68383	1.331640	9.406699	15.76841	.2561655	.8306214	604.1369
#1	.1304928	.3280687	-.024382	.0037471	7.140813	1.617865	.001774
#2	.0933517	.3334158	-.023492	.0044457	7.174647	1.630325	-.002323
#3	.2081629	.3368635	-.027985	.0032485	7.170025	1.603482	-.000470

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5027-17DLX4 Acquired: 12/31/2024 13:40:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK27 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.005669	.4351944	-.043662
Stddev	.004677	.0048337	.005897
%RSD	82.50784	1.110706	13.50503
#1	-.010893	.4378487	-.050444
#2	-.001870	.4381195	-.040790
#3	-.004243	.4296151	-.039752

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1640.949	20292.33	2076.806	1353.876	1778.182
Stddev	1.362	7.33	18.200	8.665	1.066
%RSD	.0829992	.0361406	.8763299	.6399889	.0599529
#1	1642.488	20296.74	2071.670	1347.039	1779.093
#2	1639.898	20283.86	2061.726	1350.968	1777.009
#3	1640.461	20296.39	2097.021	1363.621	1778.443

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5030-11DLX4 Acquired: 12/31/2024 13:44:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK49 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000433	.0294349	.2239496	-.045288	-.003542	6.002304	.0397708
Stddev	.005963	.0045020	.0043825	.002722	.003006	.024848	.0018414
%RSD	1376.776	15.29461	1.956893	6.010294	84.87925	.4139784	4.630029
#1	-.006079	.0345665	.2283248	-.042989	-.004944	5.990952	.0412116
#2	-.001024	.0275886	.2239640	-.044581	-.000091	5.985159	.0404045
#3	.005804	.0261497	.2195600	-.048293	-.005591	6.030801	.0376962

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008836	.0021634	513.7030	.0199313	.0501240	.0280812	26.42671
Stddev	.0000701	.0001158	2.0982	.0003892	.0004903	.0063227	.09986
%RSD	7.937759	5.351641	.4084449	1.952640	.9780837	22.51565	.3778748
#1	.0008165	.0021776	511.4837	.0202628	.0499876	.0279754	26.38215
#2	.0009565	.0022714	513.9710	.0195028	.0506680	.0344561	26.35688
#3	.0008779	.0020412	515.6543	.0200283	.0497163	.0218121	26.54109

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.799217	288.9608	.0231469	-.001989	.3852054	.0083630	.5457908
Stddev	.007334	1.3472	.0009736	.001462	.0067028	.0036725	.0075137
%RSD	.4076280	.4662228	4.206022	73.50087	1.740062	43.91375	1.376670
#1	1.795668	287.4146	.0232586	-.003499	.3881562	.0111935	.5448657
#2	1.794332	289.5867	.0221223	-.001888	.3899265	.0042131	.5387824
#3	1.807650	289.8813	.0240598	-.000580	.3775334	.0096823	.5537242

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.085237	.5126596	-.032264	.0035070	11.60372	2.195296	-.002355
Stddev	.151714	.0009566	.003437	.0011412	.03580	.024222	.001891
%RSD	7.275626	.1865935	10.65290	32.54022	.3084945	1.103344	80.29890
#1	1.921970	.5121508	-.028602	.0047689	11.59596	2.181918	-.003653
#2	2.221871	.5120649	-.032769	.0025474	11.57243	2.180714	-.003228
#3	2.111870	.5137631	-.035420	.0032048	11.64275	2.223256	-.000185

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5030-11DLX4 Acquired: 12/31/2024 13:44:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK49 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0227289	.2080877	-.043319
Stddev	.0028878	.0010984	.007057
%RSD	12.70539	.5278497	16.29047
#1	.0194267	.2068295	-.051355
#2	.0239788	.2085785	-.040468
#3	.0247812	.2088552	-.038133

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1590.393	19756.29	2067.903	1313.204	1686.991
Stddev	3.985	70.01	17.269	12.058	1.993
%RSD	.2505467	.3543801	.8351210	.9182490	.1181418
#1	1594.994	19717.68	2078.388	1307.842	1688.711
#2	1588.158	19837.11	2077.350	1327.013	1687.457
#3	1588.028	19714.08	2047.971	1304.756	1684.807

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5266-04 Acquired: 12/31/2024 13:48:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Y9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098832	.0054448	.0877611	-.009601	.0070269	11.88336	.1846593
Stddev	.0068932	.0013429	.0020245	.003186	.0029359	.06568	.0006605
%RSD	69.74660	24.66480	2.306826	33.18142	41.78037	.5526735	.3577055
#1	.0098596	.0043369	.0858208	-.009638	.0093849	11.82153	.1848598
#2	.0167882	.0069384	.0876020	-.006396	.0037386	11.87624	.1839218
#3	.0030019	.0050591	.0898604	-.012767	.0079572	11.95231	.1851964

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012407	.0010691	70.06305	.0425080	.0416687	.0386128	42.28636
Stddev	.0001311	.0001093	.08333	.0004289	.0000699	.0069861	.23177
%RSD	10.56814	10.22249	.1189400	1.009095	.1677743	18.09270	.5480907
#1	.0013120	.0011650	69.97071	.0428061	.0416684	.0399464	42.01948
#2	.0010894	.0009501	70.13265	.0420164	.0417387	.0310560	42.43711
#3	.0013208	.0010921	70.08581	.0427014	.0415989	.0448359	42.40248

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.590159	33.43669	.0525114	-.003556	-.101865	.0350008	.1709466
Stddev	.010562	.14753	.0002561	.001404	.003448	.0042004	.0003003
%RSD	.6642248	.4412308	.4877326	39.49088	3.384870	12.00094	.1756824
#1	1.584229	33.38482	.0525461	-.002333	-.098540	.0311008	.1707968
#2	1.583895	33.32211	.0522397	-.003246	-.101630	.0394480	.1712924
#3	1.602354	33.60316	.0527484	-.005090	-.105424	.0344534	.1707507

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9079919	.8874031	-.103600	.0048430	1.054259	3.406308	.0001905
Stddev	.0341324	.0042596	.005449	.0006611	.006440	.010190	.0006161
%RSD	3.759111	.4800062	5.259662	13.64963	.6108995	.2991638	323.4587
#1	.9378310	.8859624	-.107371	.0041114	1.047818	3.417492	.0003182
#2	.8707734	.8921962	-.106076	.0050201	1.060699	3.403885	.0007327
#3	.9153713	.8840507	-.097353	.0053974	1.054260	3.397548	-.000479

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5266-04 Acquired: 12/31/2024 13:48:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Y9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.2041877	.0336330	-.041908
Stddev	.0020905	.0008132	.006128
%RSD	1.023812	2.417725	14.62273
#1	.2027619	.0338714	-.048981
#2	.2032138	.0343003	-.038190
#3	.2065875	.0327273	-.038553

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1709.428	20941.26	2134.245	1413.334	1917.960
Stddev	2.185	76.12	12.440	3.486	1.694
%RSD	.1278038	.3635122	.5828617	.2466856	.0883278
#1	1707.082	20976.34	2120.602	1412.590	1916.111
#2	1711.405	20993.51	2144.959	1417.132	1919.437
#3	1709.795	20853.92	2137.175	1410.279	1918.333

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5030-12DLX4 Acquired: 12/31/2024 13:52:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK50 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000628	.0255780	.6940298	-.041632	-.004838	4.081580	.0416302
Stddev	.006284	.0030916	.0019621	.000848	.002404	.041409	.0015819
%RSD	1001.215	12.08686	.2827109	2.037253	49.69854	1.014544	3.799803
#1	.006625	.0247122	.6954767	-.041754	-.007612	4.125254	.0406796
#2	-.004044	.0230115	.6948162	-.042413	-.003351	4.042886	.0434562
#3	-.004464	.0290101	.6917965	-.040730	-.003551	4.076600	.0407547

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009810	.0075818	623.3021	.0131735	.0500936	.0139665	34.31310
Stddev	.0000861	.0000455	2.5335	.0008816	.0004542	.0136692	.06693
%RSD	8.782375	.5999699	.4064571	6.692281	.9066507	97.87171	.1950462
#1	.0009330	.0075349	624.5000	.0137547	.0505015	.0072517	34.27219
#2	.0010804	.0076257	620.3918	.0136068	.0501752	.0296945	34.27677
#3	.0009295	.0075850	625.0145	.0121591	.0496042	.0049533	34.39033

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.189468	347.3603	.0215010	-.002740	.4607727	.0111031	1.501990
Stddev	.014951	1.2751	.0002280	.001111	.0339484	.0104471	.006801
%RSD	.6828654	.3670898	1.060557	40.53093	7.367701	94.09197	.4528320
#1	2.178509	347.0426	.0214066	-.003502	.4985111	.0032968	1.498789
#2	2.183396	346.2740	.0217610	-.003252	.4510878	.0229711	1.509801
#3	2.206500	348.7642	.0213352	-.001466	.4327192	.0070415	1.497380

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.262165	.2739190	-.058351	.0041121	23.72229	1.880849	.0010863
Stddev	.167063	.0015422	.001589	.0009434	.04545	.007040	.0019978
%RSD	13.23621	.5630211	2.722429	22.94106	.1916045	.3742780	183.9100
#1	1.455068	.2754954	-.058043	.0050189	23.67203	1.882946	-.000076
#2	1.166838	.2724134	-.060071	.0031360	23.76052	1.872999	-.000058
#3	1.164589	.2738482	-.056940	.0041812	23.73433	1.886602	.003393

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5030-12DLX4 Acquired: 12/31/2024 13:52:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK50 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.002447	.2038388	-.055925
Stddev	.005358	.0007502	.001090
%RSD	219.0074	.3680140	1.948944
#1	.003696	.2040794	-.054730
#2	-.004877	.2029979	-.056864
#3	-.006159	.2044392	-.056182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1576.537	19482.63	2054.956	1293.955	1668.975
Stddev	2.590	95.47	14.210	2.116	2.670
%RSD	.1642626	.4900048	.6914768	.1635562	.1599562
#1	1573.581	19436.81	2052.928	1292.516	1666.098
#2	1578.406	19592.37	2070.070	1296.385	1669.455
#3	1577.625	19418.71	2041.869	1292.965	1671.371

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5038-08DLX4 Acquired: 12/31/2024 13:56:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK88 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0264742	.0245734	1.067590	-.040247	.0026816	10.94717	.3241727
Stddev	.0004164	.0026734	.004167	.007970	.0017518	.26309	.0092168
%RSD	1.573013	10.87938	.3902847	19.80137	65.32459	2.403259	2.843175
#1	.0266154	.0224163	1.072390	-.048641	.0044316	10.77874	.3185009
#2	.0260055	.0275644	1.065467	-.032784	.0009281	10.81243	.3192097
#3	.0268016	.0237395	1.064912	-.039318	.0026852	11.25034	.3348075

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014857	.0029060	455.4437	.0495965	.0567201	.1502859	45.33175
Stddev	.0002417	.0000283	11.8302	.0008493	.0004512	.0030968	1.09563
%RSD	16.26583	.9732321	2.597511	1.712496	.7954388	2.060575	2.416910
#1	.0014325	.0029180	447.9509	.0486380	.0571176	.1499074	44.60922
#2	.0012751	.0028738	449.2984	.0502557	.0562297	.1535545	44.79365
#3	.0017496	.0029264	469.0819	.0498957	.0568129	.1473958	46.59238

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.952169	48.19181	.0384208	-.001191	.1731869	.0152063	1.030317
Stddev	.078361	1.32089	.0003844	.000849	.0192493	.0062439	.001466
%RSD	2.654365	2.740894	1.000509	71.25898	11.11473	41.06140	.1422460
#1	2.894166	47.49030	.0380783	-.000217	.1631882	.0082203	1.028891
#2	2.921028	47.36968	.0388366	-.001775	.1609946	.0171554	1.030242
#3	3.041315	49.71545	.0383476	-.001581	.1953779	.0202432	1.031819

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1033982	2.522004	-.115339	.0042851	.8165599	3.009158	.0610297
Stddev	.0200615	.015929	.003917	.0005019	.0070877	.089815	.0024677
%RSD	19.40212	.6315987	3.396220	11.71242	.8679984	2.984729	4.043433
#1	.0838796	2.539665	-.114791	.0044063	.8233960	2.980487	.0638777
#2	.1239617	2.508726	-.111725	.0047152	.8170388	2.937178	.0595270
#3	.1023534	2.517620	-.119501	.0037337	.8092449	3.109808	.0596844

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5038-08DLX4 Acquired: 12/31/2024 13:56:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK88 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.1225312	.2738025	-.065630
Stddev	.0056006	.0071532	.001670
%RSD	4.570787	2.612532	2.544447
#1	.1273751	.2690850	-.067146
#2	.1163985	.2702895	-.065905
#3	.1238199	.2820329	-.063840

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1637.462	20105.54	2126.837	1349.678	1745.057
Stddev	3.686	33.78	62.995	4.364	4.612
%RSD	.2251196	.1680265	2.961891	.3233556	.2642931
#1	1633.762	20143.10	2146.861	1349.685	1740.225
#2	1641.134	20095.86	2177.385	1354.038	1745.536
#3	1637.488	20077.65	2056.264	1345.309	1749.411

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5038-15DLX4 Acquired: 12/31/2024 14:00:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002636	.0303729	.2519694	-.040020	-.005691	7.291642	.0666394
Stddev	.004403	.0013996	.0011912	.007538	.004927	.043243	.0002333
%RSD	167.0332	4.608217	.4727620	18.83607	86.57636	.5930442	.3501514
#1	.000231	.0291852	.2522688	-.036944	-.007203	7.328061	.0669089
#2	-.000434	.0300176	.2529824	-.048610	-.000185	7.303016	.0665034
#3	-.007705	.0319160	.2506571	-.034507	-.009683	7.243849	.0665060

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005818	.0019674	419.4810	.0182363	.0447758	.0180939	23.06495
Stddev	.0001775	.0001125	3.0808	.0004670	.0008908	.0063345	.13566
%RSD	30.50807	5.720104	.7344314	2.560731	1.989442	35.00912	.5881765
#1	.0007296	.0020968	419.3856	.0187312	.0455425	.0140589	23.00568
#2	.0006310	.0019121	422.6083	.0181744	.0449864	.0148279	23.22017
#3	.0003849	.0018932	416.4489	.0178034	.0437987	.0253948	22.96902

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.319808	219.2315	.0221542	-.003101	.1793148	.0306607	.3877055
Stddev	.010123	.9494	.0002294	.000791	.0242645	.0065781	.0016690
%RSD	.4363848	.4330412	1.035515	25.51980	13.53177	21.45445	.4304877
#1	2.314114	218.4832	.0220773	-.002838	.1755755	.0358293	.3895042
#2	2.331497	220.2994	.0219731	-.003991	.2052319	.0232561	.3862068
#3	2.313815	218.9119	.0224122	-.002475	.1571371	.0328968	.3874055

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.595990	.7697766	-.055349	.0048587	3.870765	2.698446	.0020901
Stddev	.118778	.0051946	.003962	.0009893	.040372	.027962	.0008898
%RSD	19.92948	.6748132	7.158001	20.36086	1.043007	1.036239	42.57152
#1	-.464329	.7757554	-.053628	.0054154	3.915702	2.683494	.0023471
#2	-.695096	.7663699	-.059880	.0037165	3.837553	2.730706	.0011001
#3	-.628545	.7672047	-.052538	.0054443	3.859039	2.681139	.0028232

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5038-15DLX4 Acquired: 12/31/2024 14:00:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0792748	.1324022	-.067275
Stddev	.0042128	.0007921	.004392
%RSD	5.314241	.5982526	6.528793
#1	.0768648	.1323285	-.071987
#2	.0768202	.1332285	-.066541
#3	.0841393	.1316495	-.063295

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1614.619	19883.04	2034.944	1319.113	1736.333
Stddev	8.885	61.56	17.908	3.642	11.801
%RSD	.5502855	.3096215	.8800077	.2760780	.6796389
#1	1604.463	19815.89	2038.445	1315.212	1722.857
#2	1618.441	19936.81	2015.545	1322.424	1741.321
#3	1620.954	19896.41	2050.843	1319.702	1744.821

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5038-17DLX4 Acquired: 12/31/2024 14:03:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006904	.0288132	.1291879	-.040550	-.005424	5.227399	.0600920
Stddev	.001918	.0047051	.0041331	.005282	.000756	.043723	.0005643
%RSD	27.78265	16.32954	3.199307	13.02641	13.93746	.8364258	.9390743
#1	-.008628	.0341530	.1275558	-.035416	-.005084	5.202345	.0596464
#2	-.007246	.0252759	.1261201	-.040265	-.004898	5.201966	.0607265
#3	-.004838	.0270107	.1338879	-.045969	-.006291	5.277886	.0599031

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006726	.0016121	457.6930	.0139451	.0455523	.0231454	26.35929
Stddev	.0001755	.0001406	.6053	.0006957	.0002349	.0062048	.11621
%RSD	26.09838	8.723054	.1322566	4.988511	.5157251	26.80786	.4408528
#1	.0005988	.0015235	457.5146	.0147257	.0457007	.0188356	26.30804
#2	.0008729	.0017742	457.1969	.0133906	.0452814	.0203436	26.27752
#3	.0005460	.0015385	458.3675	.0137190	.0456746	.0302570	26.49231

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.203204	244.4404	.0233515	-.002568	.2507822	.0161737	.3328478
Stddev	.003048	.4860	.0009486	.001551	.0291086	.0016320	.0025377
%RSD	.1383464	.1988201	4.062485	60.39221	11.60714	10.09053	.7624114
#1	2.205334	243.9763	.0242790	-.004338	.2255078	.0142971	.3302152
#2	2.204566	244.3993	.0233924	-.001922	.2826084	.0169630	.3352784
#3	2.199713	244.9457	.0223831	-.001445	.2442304	.0172609	.3330500

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.193722	.5888737	-.057366	.0051002	8.766186	2.583124	-.001139
Stddev	.222251	.0047981	.001620	.0009038	.012859	.005192	.001575
%RSD	114.7270	.8147974	2.823821	17.72047	.1466863	.2010044	138.2794
#1	-.070014	.5863970	-.056824	.0060807	8.769991	2.586517	-.002824
#2	-.450301	.5858201	-.059188	.0049195	8.751854	2.585709	-.000890
#3	-.060851	.5944041	-.056088	.0043005	8.776712	2.577147	.000296

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5038-17DLX4 Acquired: 12/31/2024 14:03:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKA8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0456703	.1889456	-.071139
Stddev	.0008884	.0004638	.001841
%RSD	1.945252	.2454607	2.588257
#1	.0459088	.1892805	-.072256
#2	.0464151	.1884162	-.072148
#3	.0446870	.1891400	-.069014

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1590.659	19778.11	2030.457	1313.764	1710.694
Stddev	7.070	58.38	14.137	2.513	5.565
%RSD	.4444753	.2951568	.6962236	.1912786	.3253274
#1	1598.240	19721.28	2017.343	1313.337	1717.047
#2	1589.491	19775.11	2045.432	1311.491	1708.352
#3	1584.245	19837.92	2028.596	1316.462	1706.682

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5156-13DLX4 Acquired: 12/31/2024 14:07:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0315667	-.036662	1.058968	.0918198	.0498617	28.35091	.3846743
Stddev	.0058256	.004491	.021922	.0079974	.0062805	.12102	.0020824
%RSD	18.45483	12.24905	2.070162	8.709916	12.59587	.4268599	.5413426
#1	.0377917	-.041300	1.081639	.0923654	.0568687	28.29612	.3823760
#2	.0306620	-.032335	1.037881	.0835636	.0447390	28.26697	.3852109
#3	.0262464	-.036350	1.057383	.0995305	.0479775	28.48963	.3864358

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045393	.0065383	228.1203	.7935076	.0624256	.1551291	239.7627
Stddev	.0001649	.0002784	.8628	.0013871	.0009327	.0079988	1.1896
%RSD	3.632392	4.258504	.3782165	.1748026	1.494022	5.156219	.4961512
#1	.0047271	.0068595	227.6543	.7926107	.0634944	.1583656	238.6886
#2	.0044186	.0063895	227.5908	.7928069	.0620059	.1460192	239.5583
#3	.0044721	.0063658	229.1159	.7951052	.0617766	.1610024	241.0413

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.68159	45.92620	.2832807	-.009297	.3728112	.2490998	2.243067
Stddev	.09230	.35761	.0064484	.000221	.0048841	.0038307	.002215
%RSD	.5533177	.7786720	2.276345	2.378131	1.310063	1.537822	.0987682
#1	16.62337	45.59949	.2907175	-.009269	.3727956	.2452841	2.242618
#2	16.63340	45.87085	.2798835	-.009091	.3679349	.2490701	2.245473
#3	16.78802	46.30826	.2792411	-.009531	.3777030	.2529453	2.241111

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.589449	2.586668	-.496022	.0208101	3.051924	3.850413	.0209344
Stddev	.112423	.051323	.005031	.0011432	.053502	.008425	.0009635
%RSD	4.341595	1.984135	1.014273	5.493494	1.753067	.2188010	4.602337
#1	2.474780	2.645295	-.495702	.0212192	3.113634	3.850772	.0210102
#2	2.594082	2.549857	-.491159	.0216924	3.018539	3.841815	.0218577
#3	2.699483	2.564852	-.501206	.0195186	3.023599	3.858653	.0199353

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5156-13DLX4 Acquired: 12/31/2024 14:07:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28T9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.051006	.3108103	-.050560
Stddev	.004109	.0019875	.001868
%RSD	.3909322	.6394412	3.695612
#1	1.054740	.3090870	-.051580
#2	1.046604	.3103595	-.051696
#3	1.051672	.3129844	-.048403

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1680.158	20562.40	2104.312	1379.685	1865.410
Stddev	25.656	64.33	7.518	6.066	29.770
%RSD	1.526983	.3128637	.3572733	.4396366	1.595901
#1	1650.550	20523.42	2099.203	1377.300	1831.219
#2	1695.826	20636.66	2112.945	1386.581	1885.592
#3	1694.098	20527.13	2100.787	1375.175	1879.417

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5156-14DLX4 Acquired: 12/31/2024 14:11:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0457595	-.073048	1.109881	.1659278	.0799146	21.09860	.3207138
Stddev	.0006400	.001609	.004058	.0006302	.0029800	.03433	.0027176
%RSD	1.398594	2.202501	.3656676	.3797969	3.728999	.1627067	.8473532
#1	.0450619	-.072001	1.105626	.1666520	.0797056	21.06981	.3218358
#2	.0458969	-.072242	1.113710	.1656267	.0770445	21.13659	.3226908
#3	.0463196	-.074900	1.110308	.1655046	.0829935	21.08939	.3176149

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055911	.0081632	209.8331	1.121035	.0538253	.0891267	368.7790
Stddev	.0002371	.0001100	.7817	.017815	.0007143	.0091226	1.0391
%RSD	4.240596	1.348035	.3725456	1.589184	1.327080	10.23557	.2817548
#1	.0057553	.0080447	210.6897	1.100563	.0537062	.0934453	369.9787
#2	.0056987	.0081829	209.6513	1.133023	.0545917	.0786467	368.1710
#3	.0053193	.0082621	209.1582	1.129518	.0531781	.0952882	368.1871

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.38333	38.17744	.2592607	-.011472	.4561941	.2942578	3.459605
Stddev	.04543	.15696	.0009507	.001166	.0190893	.0087388	.057237
%RSD	.1863302	.4111324	.3666876	10.16487	4.184475	2.969790	1.654433
#1	24.42662	38.31855	.2595727	-.010142	.4515548	.3037290	3.395850
#2	24.38737	38.00838	.2581933	-.012320	.4398520	.2925370	3.506565
#3	24.33602	38.20538	.2600163	-.011954	.4771754	.2865074	3.476402

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9467570	2.535539	-.838350	.0214311	2.281156	3.543816	.0473739
Stddev	.2553235	.012541	.003803	.0010262	.024446	.014382	.0039285
%RSD	26.96822	.4946035	.4536744	4.788277	1.071642	.4058317	8.292619
#1	.9264258	2.524671	-.834171	.0216812	2.254216	3.527230	.0480207
#2	1.211638	2.532686	-.839272	.0203030	2.287325	3.552831	.0431622
#3	.702207	2.549261	-.841608	.0223090	2.301926	3.551386	.0509390

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5156-14DLX4 Acquired: 12/31/2024 14:11:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	1.578001	.1144416	-.065126
Stddev	.001418	.0020296	.002629
%RSD	.0898796	1.773483	4.037259
#1	1.577563	.1165127	-.068128
#2	1.579587	.1143560	-.064017
#3	1.576854	.1124562	-.063233

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1647.516	20437.91	2107.165	1368.151	1868.737
Stddev	5.324	243.55	6.422	14.741	6.040
%RSD	.3231456	1.191653	.3047870	1.077414	.3231995
#1	1647.521	20715.92	2100.124	1385.088	1871.782
#2	1642.189	20262.16	2112.701	1358.220	1861.781
#3	1652.837	20335.65	2108.670	1361.144	1872.648

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5156-21DLX4 Acquired: 12/31/2024 14:15:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1300433	-.099967	2.059814	.2206012	.1112122	14.87154
Stddev	.0027509	.002771	.024394	.0067652	.0005865	.03232
%RSD	2.115360	2.771819	1.184275	3.066729	.5273790	.2173530
#1	.1298514	-.102125	2.069890	.2132298	.1118535	14.85583
#2	.1328851	-.100933	2.077555	.2220475	.1107031	14.90871
#3	.1273934	-.096842	2.031996	.2265264	.1110800	14.85007

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8850536	.0075910	.0097080	120.3605	1.048874	.0596842
Stddev	.0024544	.0001294	.0000455	.2483	.007360	.0004741
%RSD	.2773173	1.704934	.4681863	.2063231	.7016630	.7943067
#1	.8843947	.0076549	.0097398	120.2498	1.057291	.0598559
#2	.8829958	.0074421	.0097282	120.1868	1.043648	.0600484
#3	.8877702	.0076761	.0096559	120.6449	1.045684	.0591481

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.121089	454.2923	10.34166	19.99993	.5838892	-.014658
Stddev	.004966	.2651	.01266	.10702	.0061293	.001081
%RSD	.1205107	.0583520	.1223862	.5351114	1.049731	7.376947
#1	4.116118	454.3290	10.32709	19.90672	.5871481	-.013545
#2	4.121097	454.0107	10.34798	19.97627	.5877005	-.014726
#3	4.126051	454.5371	10.34991	20.11680	.5768189	-.015704

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3183445	.0883595	5.562530	.4395154	1.687409	F -1.07870
Stddev	.0183022	.0146055	.025374	.1805256	.014088	.01011
%RSD	5.749194	16.52966	.4561653	41.07378	.8349182	.9369848
#1	.3390403	.1026252	5.588491	.2329529	1.698114	-1.06703
#2	.3117025	.0734363	5.561313	.5185387	1.692665	-1.08457
#3	.3042906	.0890171	5.537787	.5670545	1.671448	-1.08450

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5156-21DLX4 Acquired: 12/31/2024 14:15:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28W5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1147841	5.642023	3.125200	.1341814	.5204155	-.131391
Stddev	.0014926	.075023	.017379	.0021492	.0050705	.001238
%RSD	1.300319	1.329724	.5560941	1.601722	.9743238	.9422556
#1	.1155299	5.687600	3.105134	.1334611	.5262703	-.132498
#2	.1157568	5.683035	3.135032	.1365982	.5175270	-.131620
#3	.1130657	5.555434	3.135434	.1324848	.5174492	-.130054

Elem	Li6707
Units	ppm
Avg	-.069078
Stddev	.001209
%RSD	1.750528
#1	-.070367
#2	-.067969
#3	-.068896

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1636.001	20204.06	2069.248	1352.583	1880.832
Stddev	16.529	183.85	5.617	9.288	18.485
%RSD	1.010325	.9099639	.2714643	.6866834	.9828205
#1	1625.243	20028.24	2075.667	1342.429	1868.388
#2	1627.727	20395.00	2065.230	1360.650	1872.035
#3	1655.033	20188.94	2066.848	1354.670	1902.072

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5035-05DLX4 Acquired: 12/31/2024 14:19:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005948	.0263871	.0847880	-.052036	-.004754	4.978162	.0373164
Stddev	.004900	.0013674	.0030916	.005889	.003165	.014908	.0018599
%RSD	82.37164	5.182228	3.646259	11.31674	66.58423	.2994692	4.984124
#1	-.004857	.0256528	.0817412	-.045504	-.008180	4.961207	.0359833
#2	-.001687	.0279648	.0847003	-.056938	-.001938	4.989218	.0365248
#3	-.011302	.0255436	.0879225	-.053667	-.004143	4.984060	.0394412

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007277	.0004975	479.0560	.0117676	.0457551	.0201660	18.32048
Stddev	.0000805	.0000730	1.3922	.0003925	.0005397	.0115188	.06322
%RSD	11.05968	14.66503	.2906174	3.335813	1.179511	57.11990	.3450871
#1	.0006352	.0004214	479.9943	.0113173	.0451733	.0182779	18.25612
#2	.0007657	.0005043	479.7174	.0120378	.0462394	.0097079	18.32284
#3	.0007821	.0005669	477.4564	.0119477	.0458526	.0325122	18.38249

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7835978	74.96872	.0193682	-.002884	.1731935	.0137889	.0764980
Stddev	.0057162	.23846	.0007759	.000916	.0080607	.0035753	.0006671
%RSD	.7294781	.3180831	4.006207	31.77448	4.654139	25.92911	.8720859
#1	.7892745	75.14841	.0195889	-.001846	.1668033	.0157582	.0765014
#2	.7836760	75.05956	.0185059	-.003583	.1822494	.0159467	.0771634
#3	.7778429	74.69819	.0200099	-.003223	.1705279	.0096619	.0758292

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147006	.6514461	-.042791	.0028000	6.899106	1.812889	-.000798
Stddev	.1283716	.0058785	.001172	.0001593	.005314	.012303	.001207
%RSD	873.2383	.9023686	2.738559	5.690259	.0770268	.6786489	151.2586
#1	-.124593	.6483788	-.044018	.0026323	6.905011	1.819628	.000578
#2	.040448	.6477357	-.041683	.0029495	6.897600	1.820350	-.001675
#3	.128247	.6582238	-.042674	.0028181	6.894708	1.798688	-.001297

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5035-05DLX4 Acquired: 12/31/2024 14:19:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKM6 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0385139	.2904714	-.078942
Stddev	.0062326	.0015276	.003497
%RSD	16.18282	.5258904	4.429309
#1	.0313616	.2902724	-.080471
#2	.0413975	.2920887	-.081413
#3	.0427826	.2890531	-.074941

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1613.363	19827.91	2052.263	1331.711	1745.346
Stddev	4.625	104.09	4.540	6.606	4.190
%RSD	.2866632	.5249670	.2212057	.4960419	.2400673
#1	1608.062	19746.81	2050.568	1334.288	1741.007
#2	1616.578	19945.28	2048.815	1324.206	1749.369
#3	1615.448	19791.63	2057.407	1336.640	1745.661

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5035-20DLX4 Acquired: 12/31/2024 14:23:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084673	.0260002	.1720645	-.029362	-.001609	13.80186	.4726193
Stddev	.0057406	.0032777	.0068529	.004664	.002495	.04791	.0011704
%RSD	67.79805	12.60634	3.982734	15.88401	155.0432	.3471607	.2476387
#1	.0117929	.0258942	.1690545	-.032763	-.003719	13.75230	.4713323
#2	.0117704	.0293295	.1672318	-.024046	.001145	13.80535	.4736198
#3	.0018386	.0227768	.1799073	-.031278	-.002254	13.84794	.4729059

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013684	.0012128	711.2622	.0232965	.0573391	.0869314	38.06416
Stddev	.0000739	.0001019	3.7295	.0007137	.0005328	.0117021	.11691
%RSD	5.400450	8.402736	.5243555	3.063509	.9292039	13.46125	.3071287
#1	.0014313	.0013233	707.4153	.0237923	.0567879	.0882971	37.95714
#2	.0012870	.0011926	711.5091	.0236186	.0573780	.0746064	38.18892
#3	.0013868	.0011225	714.8621	.0224785	.0578513	.0978907	38.04642

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.127546	18.96818	.0401025	-.001919	.1258170	.0198297	.1328963
Stddev	.012505	.10821	.0006059	.000938	.0083133	.0086666	.0018368
%RSD	.2040839	.5704567	1.510870	48.89529	6.607437	43.70499	1.382165
#1	6.113107	18.89875	.0396207	-.002189	.1195291	.0290214	.1339522
#2	6.134658	19.09286	.0399041	-.002693	.1352424	.0118070	.1339615
#3	6.134874	18.91293	.0407827	-.000875	.1226794	.0186607	.1307753

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1778068	2.193340	-.096687	.0021647	1.031138	2.958849	.0120152
Stddev	.1537237	.029475	.002436	.0012638	.011913	.017088	.0016126
%RSD	86.45547	1.343819	2.519208	58.38273	1.155305	.5775119	13.42104
#1	.3017529	2.161073	-.094756	.0007358	1.022971	2.972099	.0107267
#2	.2258746	2.200098	-.095881	.0031360	1.025636	2.964886	.0138236
#3	.0057929	2.218849	-.099423	.0026222	1.044807	2.939562	.0114953

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5035-20DLX4 Acquired: 12/31/2024 14:23:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKN9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0581649	.5852816	-.071911
Stddev	.0027909	.0022428	.000767
%RSD	4.798231	.3831927	1.066707
#1	.0607526	.5830829	-.072787
#2	.0552076	.5851960	-.071361
#3	.0585346	.5875660	-.071584

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1737.839	21006.25	2138.847	1405.864	1801.079
Stddev	13.369	145.72	4.644	11.454	16.044
%RSD	.7692748	.6937168	.2171261	.8147398	.8908105
#1	1750.500	20945.32	2135.133	1398.516	1818.160
#2	1739.158	20900.89	2137.353	1400.015	1798.751
#3	1723.860	21172.56	2144.054	1419.062	1786.325

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5266-19DLX2 Acquired: 12/31/2024 14:27:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Y9D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0945857	-.124394	2.276943	.2771759	.1455144	21.97759
Stddev	.0015131	.006237	.002560	.0028408	.0039209	.07929
%RSD	1.599697	5.013736	.1124276	1.024906	2.694497	.3607615
#1	.0960094	-.121150	2.273988	.2740285	.1417589	21.88764
#2	.0929968	-.120447	2.278374	.2779492	.1495820	22.03733
#3	.0947510	-.131584	2.278469	.2795499	.1452024	22.00779

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5552448	.0090763	.0142989	205.7816	1.412705	.0767081
Stddev	.0017450	.0002246	.0001906	.7668	.005576	.0000358
%RSD	.3142705	2.474681	1.333079	.3726460	.3947160	.0466177
#1	.5536064	.0090893	.0145106	204.9237	1.418923	.0767428
#2	.5550483	.0092940	.0141410	206.4004	1.408147	.0766713
#3	.5570797	.0088454	.0142450	206.0207	1.411047	.0767101

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1571730	569.7218	21.66007	39.15932	.6649587	-.019756
Stddev	.0068527	2.6403	.06790	.06839	.0015768	.001704
%RSD	4.359949	.4634358	.3134770	.1746555	.2371282	8.623056
#1	.1611492	567.0802	21.58404	39.09516	.6659787	-.018381
#2	.1611095	572.3608	21.71467	39.23128	.6631425	-.021662
#3	.1492602	569.7242	21.68151	39.15152	.6657548	-.019225

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5822262	.1517358	4.904724	1.937559	3.240904	F -1.25901
Stddev	.0094978	.0223037	.018882	.074136	.008528	.01002
%RSD	1.631298	14.69906	.3849770	3.826270	.2631234	.7956053
#1	.5749398	.1529346	4.887660	2.009643	3.250672	-1.26960
#2	.5929680	.1734159	4.925009	1.941506	3.234941	-1.25776
#3	.5787708	.1288568	4.901501	1.861529	3.237100	-1.24968

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5266-19DLX2 Acquired: 12/31/2024 14:27:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Y9D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0462203	4.237703	4.773594	.0639728	1.063310	-.235953
Stddev	.0009356	.015755	.030562	.0016232	.004300	.001088
%RSD	2.024219	.3717829	.6402395	2.537316	.4043575	.4611057
#1	.0463480	4.251278	4.759929	.0656752	1.066651	-.234770
#2	.0470855	4.241405	4.808605	.0624425	1.058459	-.236910
#3	.0452274	4.220427	4.752248	.0638008	1.064819	-.236178

Elem	Li6707
Units	ppm
Avg	-.070224
Stddev	.003149
%RSD	4.484182
#1	-.073808
#2	-.067902
#3	-.068962

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1689.865	21192.71	2162.722	1407.989	1924.793
Stddev	1.340	108.38	13.655	1.222	2.219
%RSD	.0792906	.5114191	.6313878	.0868101	.1152859
#1	1688.867	21072.60	2163.317	1408.013	1922.320
#2	1689.340	21283.23	2148.779	1406.756	1926.609
#3	1691.388	21222.29	2176.070	1409.200	1925.451

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5266-19DL2X4 Acquired: 12/31/2024 14:31:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Y9D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0459531	-.064376	1.213278	.1391438	.0780658	11.65628	.2950265
Stddev	.0045583	.000725	.007294	.0060985	.0050184	.11053	.0020261
%RSD	9.919560	1.126457	.6011577	4.382883	6.428417	.9482278	.6867433
#1	.0426829	-.063870	1.213958	.1460930	.0838211	11.57838	.2929292
#2	.0511600	-.065207	1.220207	.1346824	.0757726	11.78278	.2969730
#3	.0440164	-.064052	1.205668	.1366560	.0746037	11.60769	.2951772

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048821	.0073548	110.6288	.7586649	.0512265	.0965097	306.0011
Stddev	.0002131	.0000209	.3959	.0032369	.0005367	.0090928	1.6558
%RSD	4.365857	.2847103	.3579011	.4266586	1.047755	9.421634	.5411178
#1	.0046685	.0073582	110.1806	.7575560	.0512730	.0869969	304.8145
#2	.0048829	.0073738	110.9308	.7623105	.0506681	.1051143	307.8928
#3	.0050948	.0073323	110.7750	.7561282	.0517385	.0974179	305.2961

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.66046	20.90623	.3489515	-.008988	.1273030	.0777234	2.625407
Stddev	.06177	.14380	.0012533	.000139	.0103024	.0078822	.000509
%RSD	.5297740	.6878536	.3591516	1.543336	8.092834	10.14132	.0193859
#1	11.62252	20.81770	.3485018	-.009146	.1154083	.0699587	2.625840
#2	11.73174	21.07216	.3479852	-.008933	.1334156	.0857180	2.624847
#3	11.62713	20.82884	.3503676	-.008885	.1330851	.0774935	2.625535

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5645247	1.704253	-.699168	.0257740	2.243612	2.593286	.0275590
Stddev	.1562814	.003943	.015949	.0006438	.009234	.023355	.0002043
%RSD	27.68371	.2313698	2.281152	2.497712	.4115828	.9006011	.7413242
#1	.6717675	1.702358	-.682574	.0253317	2.243994	2.566762	.0276479
#2	.3852128	1.701615	-.714383	.0265125	2.252649	2.610770	.0277039
#3	.6365939	1.708786	-.700547	.0254778	2.234192	2.602326	.0273253

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: P5266-19DL2X4 Acquired: 12/31/2024 14:31:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME28Y9D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.5646556	-.128630	-.077189
Stddev	.0055691	.001123	.001850
%RSD	.9862863	.8731020	2.396888
#1	.5584293	-.128851	-.077691
#2	.5663758	-.129625	-.078737
#3	.5691616	-.127412	-.075140

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1682.580	20739.81	2095.506	1389.905	1928.665
Stddev	7.618	138.74	11.202	10.472	8.209
%RSD	.4527290	.6689708	.5345961	.7534404	.4256268
#1	1683.919	20636.15	2101.620	1380.503	1929.709
#2	1674.382	20685.85	2082.577	1388.020	1919.984
#3	1689.440	20897.43	2102.322	1401.191	1936.302

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: PB165641TB Acquired: 12/31/2024 14:34:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LEB641 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002626	-.005215	-.002787	-.008627	-.005237	.0003317
Stddev	.001343	.003099	.000954	.004121	.002400	.0239813
%RSD	51.12321	59.43305	34.22525	47.77246	45.82990	7230.244
#1	-.003478	-.008388	-.002174	-.007133	-.003516	-.002189
#2	-.001078	-.002195	-.003886	-.013286	-.007978	-.022290
#3	-.003322	-.005061	-.002300	-.005460	-.004216	.025474

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000252	-.000068	-.000249	.0104940	-.001288	-.000218
Stddev	.000470	.000067	.000024	.0426095	.001196	.000139
%RSD	186.7488	97.73968	9.454933	406.0365	92.86800	63.64867
#1	.000192	-.000006	-.000272	.0572591	-.000495	-.000139
#2	-.000202	-.000139	-.000225	-.026130	-.002664	-.000137
#3	-.000745	-.000059	-.000250	.000353	-.000705	-.000379

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001172	.0138942	-.013480	-.007719	.0003252	-.003419
Stddev	.003350	.0252427	.001058	.060444	.0009988	.000532
%RSD	285.9862	181.6784	7.851926	783.0039	307.1577	15.55764
#1	-.003299	.0072801	-.014696	-.075978	.0013618	-.003292
#2	-.002906	-.007383	-.012769	.039020	.0002446	-.002963
#3	.002691	.041785	-.012975	.013800	-.000631	-.004003

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 125.6561	-.000039	-.014795	-3.42174	.0007467	-.021520
Stddev	1.4045	.005135	.000103	.13090	.0028322	.000802
%RSD	1.117711	13321.11	.6953011	3.825518	379.2730	3.727624
#1	127.1030	.005795	-.014716	-3.56844	-.002442	-.022156
#2	125.5671	-.002036	-.014758	-3.37995	.001711	-.020619
#3	124.2983	-.003874	-.014911	-3.31685	.002971	-.021785

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: PB165641TB Acquired: 12/31/2024 14:34:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LEB641 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002335	.0044224	-.001017	F -.012185	-.001329	-.000911
Stddev	.000563	.0013578	.000247	.002663	.000919	.000280
%RSD	24.12562	30.70336	24.26994	21.85478	69.12167	30.72767
#1	-.002979	.0036082	-.001252	-.014969	-.002374	-.001176
#2	-.002094	.0059898	-.000760	-.011922	-.000649	-.000618
#3	-.001932	.0036690	-.001039	-.009663	-.000964	-.000940

Elem	Li6707
Units	ppm
Avg	F -.135333
Stddev	.003251
%RSD	2.402138
#1	-.138938
#2	-.132625
#3	-.134437

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1747.226	21198.10	2129.632	1440.558	2008.167
Stddev	4.344	122.02	16.405	8.606	5.926
%RSD	.2486173	.5756059	.7703106	.5973912	.2950726
#1	1751.990	21332.65	2119.436	1450.429	2014.571
#2	1746.204	21094.63	2120.905	1436.613	2007.051
#3	1743.484	21167.02	2148.556	1434.631	2002.879

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: CCV054 Acquired: 12/31/2024 14:38:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV054 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.925860	4.862763	24.81602	4.959981	4.955038	400.7819
Stddev	.030183	.008654	.09062	.014906	.012443	.3535
%RSD	.6127446	.1779656	.3651815	.3005286	.2511209	.0882058
#1	4.891046	4.853990	24.71845	4.949320	4.940683	400.6615
#2	4.941856	4.863008	24.83206	4.953608	4.962758	400.5043
#3	4.944679	4.871293	24.89756	4.977014	4.961672	401.1799

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.10964	.5090965	2.494837	406.3816	15.58085	2.519728
Stddev	.01272	.0020176	.008706	.3634	.00870	.005870
%RSD	.1257778	.3963071	.3489795	.0894150	.0558474	.2329772
#1	10.12326	.5099092	2.485828	405.9767	15.58301	2.513783
#2	10.09808	.5105811	2.495479	406.6794	15.58826	2.519882
#3	10.10758	.5067994	2.503205	406.4888	15.57127	2.525520

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.98732	407.7238	14.87931	401.2043	2.518931	1.263819
Stddev	.02277	.9231	.02475	.3844	.004735	.001372
%RSD	.1519162	.2263937	.1663506	.0958065	.1879781	.1085378
#1	14.98409	408.2358	14.85279	400.9700	2.515719	1.264562
#2	14.96635	408.2775	14.90181	401.6479	2.516704	1.264659
#3	15.01154	406.6582	14.88332	400.9950	2.524369	1.262236

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	410.5884	2.476493	15.02436	152.7336	4.989324	F 4.360410
Stddev	.5616	.012921	.10563	.2097	.003509	.024943
%RSD	.1367863	.5217308	.7030718	.1373167	.0703277	.5720332
#1	409.9491	2.488373	15.14201	152.4950	4.989488	4.364847
#2	410.8135	2.478368	14.99343	152.8887	4.985736	4.382837
#3	411.0026	2.462737	14.93765	152.8170	4.992748	4.333546

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: CCV054 Acquired: 12/31/2024 14:38:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV054 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.901850	5.045769	5.027893	5.035179	4.980724	4.818841
Stddev	.023539	.005138	.022321	.018786	.003409	.000811
%RSD	.4802118	.1018357	.4439391	.3731002	.0684386	.0168282
#1	4.876443	5.040286	5.035560	5.021819	4.981762	4.819197
#2	4.906188	5.046547	5.045369	5.027058	4.983493	4.819413
#3	4.922919	5.050474	5.002749	5.056659	4.976916	4.817913

Elem	Li6707
Units	ppm
Avg	5.116431
Stddev	.017295
%RSD	.3380282
#1	5.096896
#2	5.122606
#3	5.129792

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1431.690	18282.00	1952.154	1168.175	1610.351
Stddev	1.567	57.51	6.137	3.200	1.973
%RSD	.1094242	.3145868	.3143564	.2739366	.1225360
#1	1430.714	18344.90	1957.251	1164.491	1608.927
#2	1433.497	18269.01	1945.342	1169.773	1612.603
#3	1430.858	18232.10	1953.868	1170.262	1609.523

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: CCB054 Acquired: 12/31/2024 14:42:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB054 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005127	-.002325	-.001849	-.006353	-.001893	.0177330
Stddev	.002439	.002321	.002403	.003164	.003173	.0239922
%RSD	47.56325	99.83897	129.9111	49.79678	167.6053	135.2969
#1	-.007706	.000000	-.004249	-.009901	-.000585	.0219219
#2	-.002857	-.002333	-.001855	-.005335	.000416	-.008078
#3	-.004820	-.004642	.000556	-.003824	-.005511	.039355

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001030	-.000051	-.000008	.0644016	-.001148	-.000290
Stddev	.000384	.000150	.000082	.0190060	.000721	.000305
%RSD	37.29436	292.4517	1043.846	29.51164	62.79831	105.2146
#1	-.000963	-.000221	-.000102	.0767135	-.001671	-.000364
#2	-.001443	-.000000	.000025	.0739790	-.001446	-.000550
#3	-.000683	.000067	.000053	.0425123	-.000326	.000045

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043702	.0072050	-.003768	-.038241	-.000548	-.001826
Stddev	.0083907	.0380346	.001705	.101384	.000957	.001388
%RSD	191.9985	527.8927	45.23938	265.1155	174.6995	75.99849
#1	.0005305	.0295268	-.004676	.024379	-.001385	-.000688
#2	.0139937	-.036712	-.004828	.016109	-.000755	-.001418
#3	-.001414	.028800	-.001802	-.155212	.000496	-.003372

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.165922	-.000839	.0019417	-.249597	-.000764	-.005279
Stddev	.017958	.006916	.0019580	.086368	.002965	.003056
%RSD	10.82304	823.9209	100.8386	34.60289	388.1573	57.90035
#1	-.148831	-.006010	.0039240	-.263596	-.002593	-.002152
#2	-.184637	-.003525	.0018922	-.328111	.002658	-.008259
#3	-.164297	.007017	.0000089	-.157085	-.002357	-.005426

Reviewed By:mohan
On:1/2/2025 2:18:27 AM
Inst Id :P5

Sample Name: CCB054 Acquired: 12/31/2024 14:42:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v58) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB054 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000882	-.000622	.0002733	-.005485	-.001294	-.000170
Stddev	.000255	.002400	.0008811	.000794	.001924	.000207
%RSD	28.95481	385.7138	322.3994	14.47261	148.6699	121.6795
#1	-.000830	.000579	.0003308	-.006054	.000906	-.000311
#2	-.001160	.000940	-.000635	-.004578	-.002658	-.000267
#3	-.000657	-.003385	.001124	-.005823	-.002130	.000068

Elem	Li6707
Units	ppm
Avg	F -.017085
Stddev	.003252
%RSD	19.03256
#1	-.017877
#2	-.013511
#3	-.019869

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1642.644	20010.31	2019.176	1351.380	1922.084
Stddev	1.410	23.51	7.786	2.806	4.035
%RSD	.0858589	.1174932	.3855792	.2076560	.2099071
#1	1641.948	19983.89	2010.196	1354.080	1918.240
#2	1644.267	20018.13	2024.023	1351.583	1921.728
#3	1641.718	20028.92	2023.311	1348.478	1926.285

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Prep Standard - Chemical Standard Summary

Order ID : P5156

Test : Metals CLP12

Prepbatch ID : PB165759,

Sequence ID/Qc Batch ID: LB134116,LB134132,LB134139,

Standard ID :
MP83134,MP83141,MP83498,MP83500,MP83501,MP83502,MP83503,MP83504,MP83505,MP83506,MP83507,MP835
08,MP83509,MP83510,MP83511,MP83512,MP83513,MP83514,

Chemical ID :
M5130,M5218,M5223,M5289,M5295,M5296,M5390,M5393,M5429,M5473,M5476,M5496,M5497,M5498,M5513,M5515
,M5519,M5658,M5697,M5698,M5751,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M581
7,M5818,M5819,M5820,M5875,M5959,M5960,M5962,M5970,M5976,M5978,M5982,M5985,M5990,M5999,M6021,M60
23,M6025,M6028,M6030,M6033,M6111,M6117,M6121,M6125,M6126,W3112,

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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)	MP83134	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 125.00000ml of M6111 + 2350.00000ml of W3112 + 25.00000ml of M6117 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP83141	10/30/2024	12/06/2024	Kareem Khairalla	None	None	Mohan Bera 11/08/2024

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5476 + 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 M5751 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5960 + 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 M5768 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 34.24000ml of MP83134 = 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
169	1:1HNO3	MP83498	12/09/2024	01/03/2025	Janvi Patel	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83500	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = 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
2480	ICP AES STD 6 ISM01.3	MP83501	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83500 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP83502	12/06/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

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 M5496 + 14.50000ml of M5515 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M5768 + 5.00000ml of M5296 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP83500 = 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
1005	ICPAES ISM01.2(S4)	MP83503	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 250.00000ml of MP83500 + 250.00000ml of MP83502 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP83504	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 25.00000ml of MP83502 + 75.00000ml of MP83500 = 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
1008	ICPAES ISM01.2(S2)	MP83505	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 12.50000ml of MP83502 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP83506	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

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 M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5960 + 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 MP83500 = 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
1003	ICPAES ISM01.2 S1	MP83507	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.50000ml of MP83506 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2054	ICV-ICPAES	MP83508	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

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 MP83500 = 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
904	ICP AES ICSA SOLN	MP83509	12/09/2024	01/06/2025	Kareem Khairalla	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 90.00000ml of MP83500 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP83510	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 10.00000ml of M5130 + 10.00000ml of M5223 + 80.00000ml of MP83500 = 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
1119	ICPAES ISM01.2(CCV)	MP83511	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 0.75000ml of M5497 + 0.75000ml of M5769 + 1.22500ml of M5496 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP83500 + 25.00000ml of MP83502 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP83512	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP83500 = Final Quantity: 250.000 ml

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Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP83513	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6126 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
513	RINSE SOLN	MP83514	12/09/2024	01/06/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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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	12/28/2024	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 #
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	12/28/2024	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.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

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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	10/12/2022 / bin	09/19/2022 / bin	M5393

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

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.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

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

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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.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	01/08/2024 / bin	01/03/2024 / bin	M5768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

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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	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

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	07/03/2024 / kareem	06/11/2024 / kareem	M5960

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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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	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

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

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22F0762009	05/09/2027	11/04/2024 / Eman	09/29/2024 / Janvi	M6111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/06/2025	11/06/2024 / Janvi	09/29/2024 / Eman	M6117

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	05/25/2025	11/26/2024 / Eman	11/22/2024 / Eman	M6125

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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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) HNO_3
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

M6028

R 8/5/24

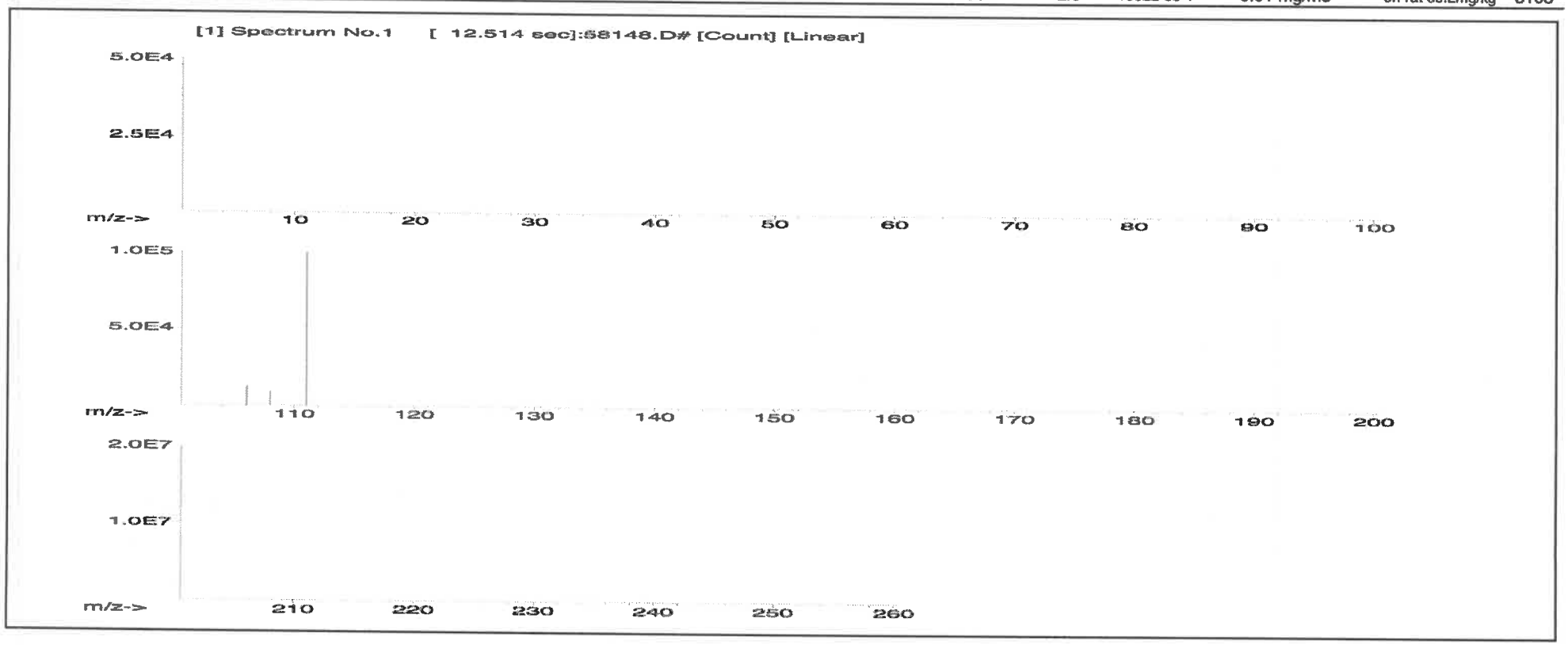
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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
Pedro Rentas		
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

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Certificate of Analysis

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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:	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

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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"

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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

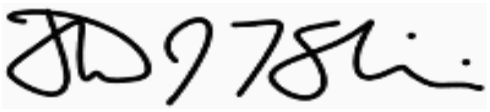
- Sealed TCT Bag Open Date: _____

- 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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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	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.

- 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

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

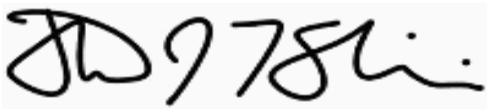
- Sealed TCT Bag Open Date: _____

- 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

R: 8/5/24 M6025

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

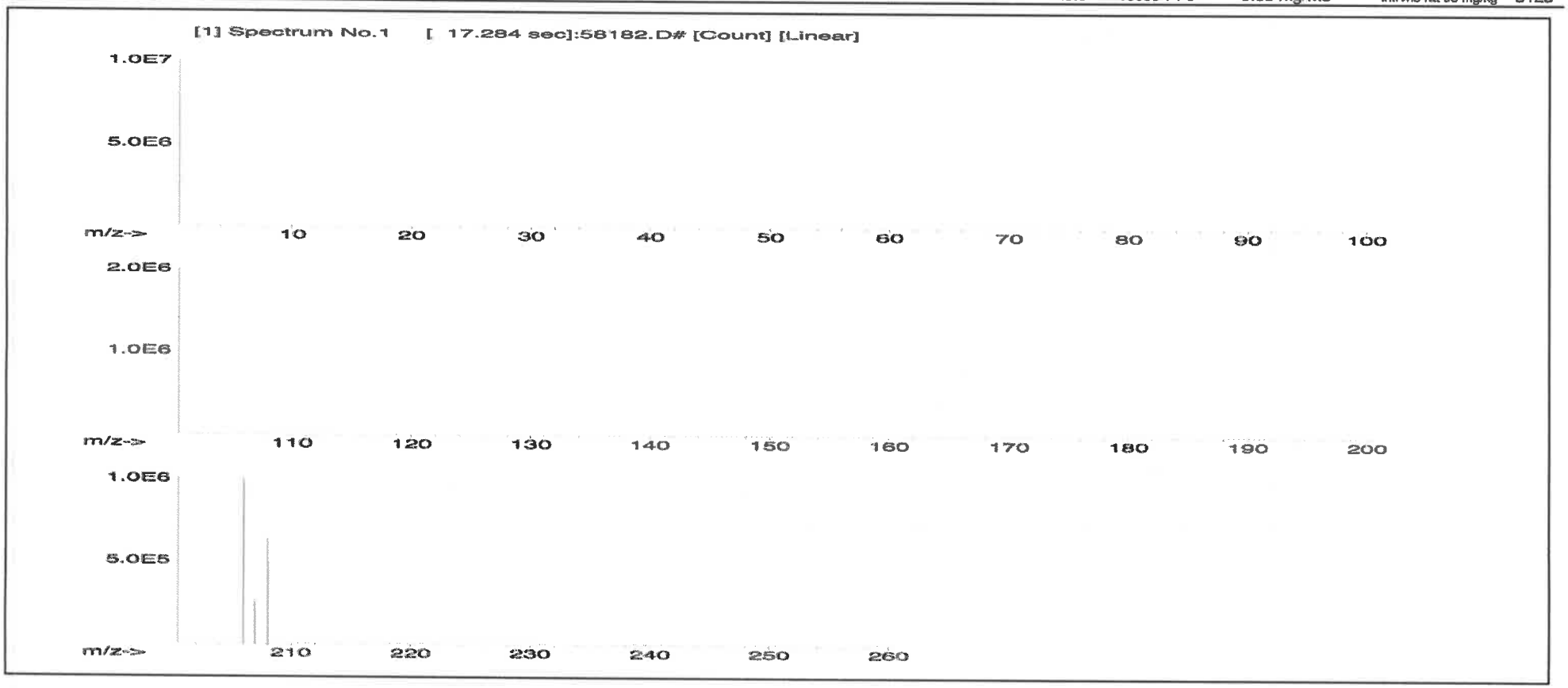
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		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).

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,

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.

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-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

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,

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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M5289 R: 07/12/22 BH

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CERTIFIED WEIGHT REPORT:

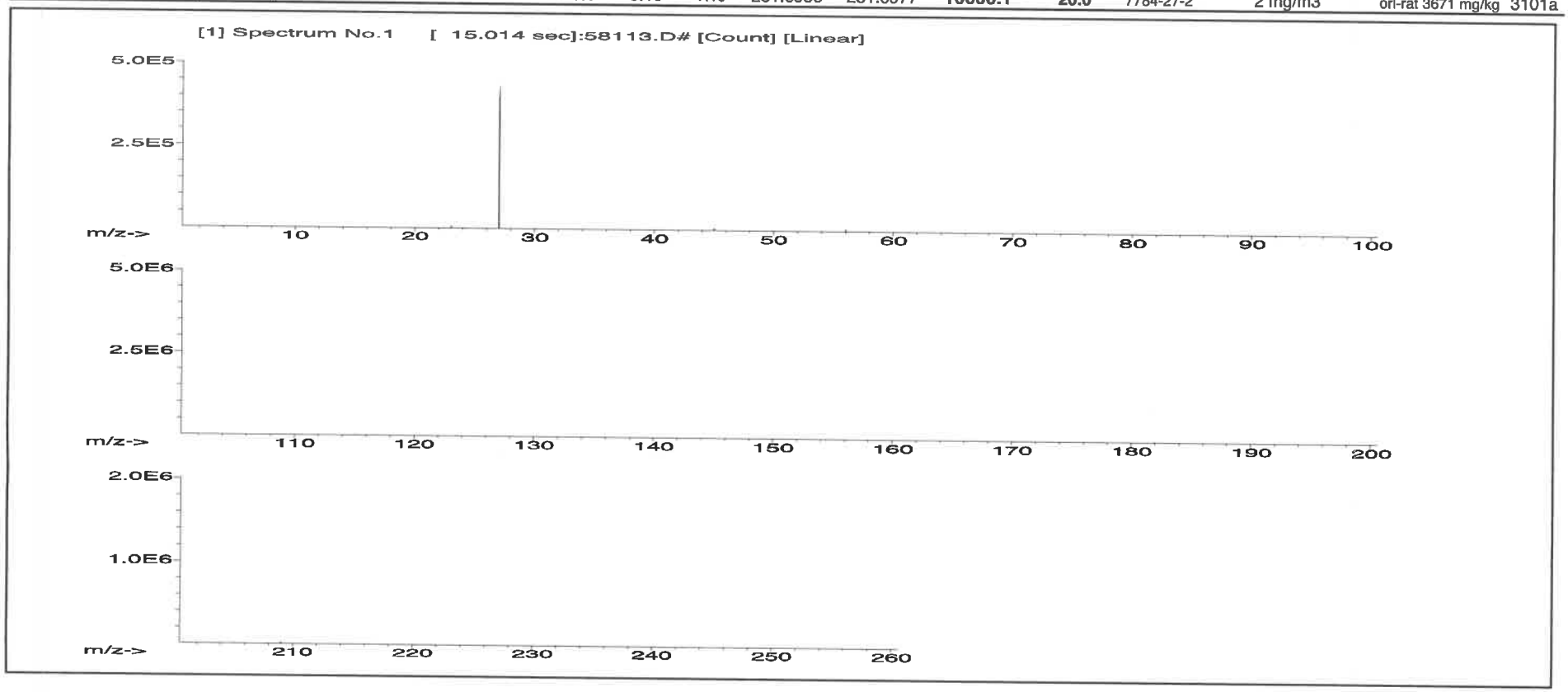
Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	40.0 (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. 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.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

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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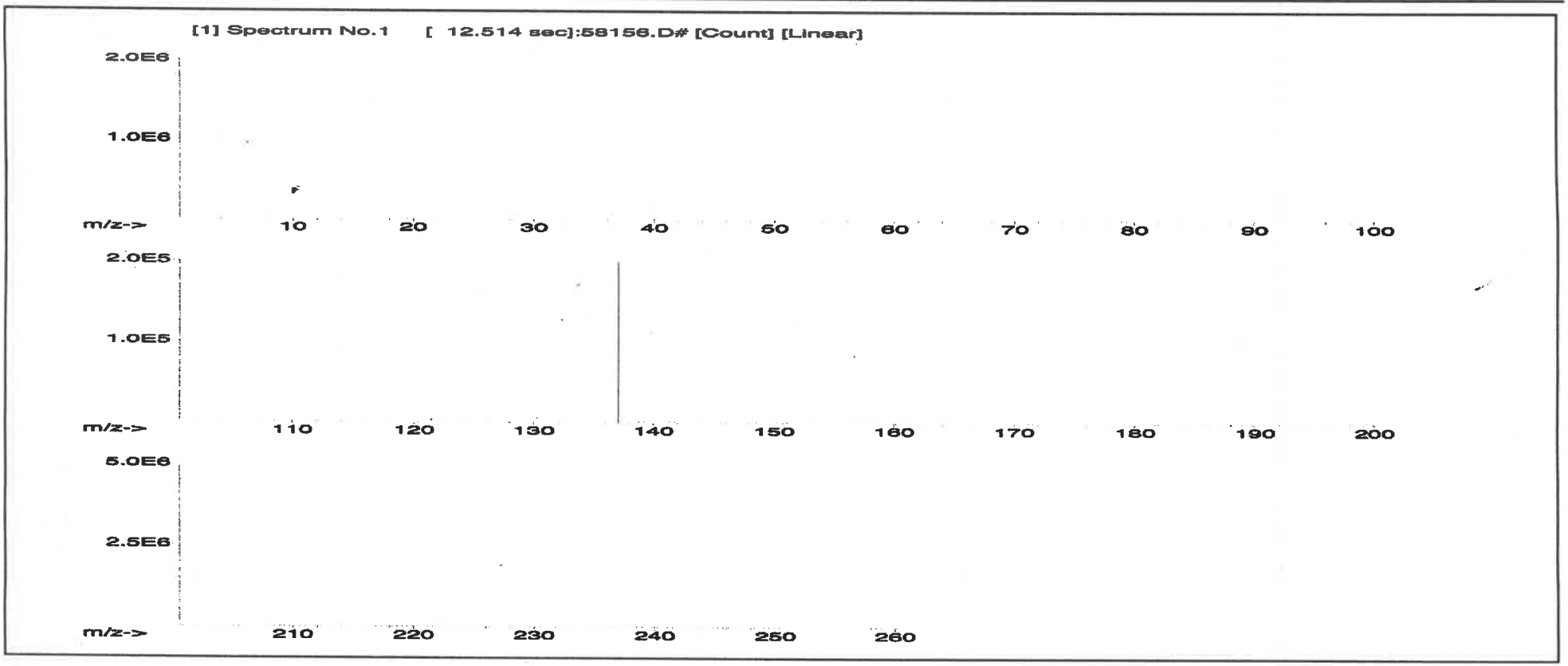
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**072122**	**Solvent:**	20510011	Nitric Acid	
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	072125				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	2.0	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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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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 | 0.058 Flask Uncertainty

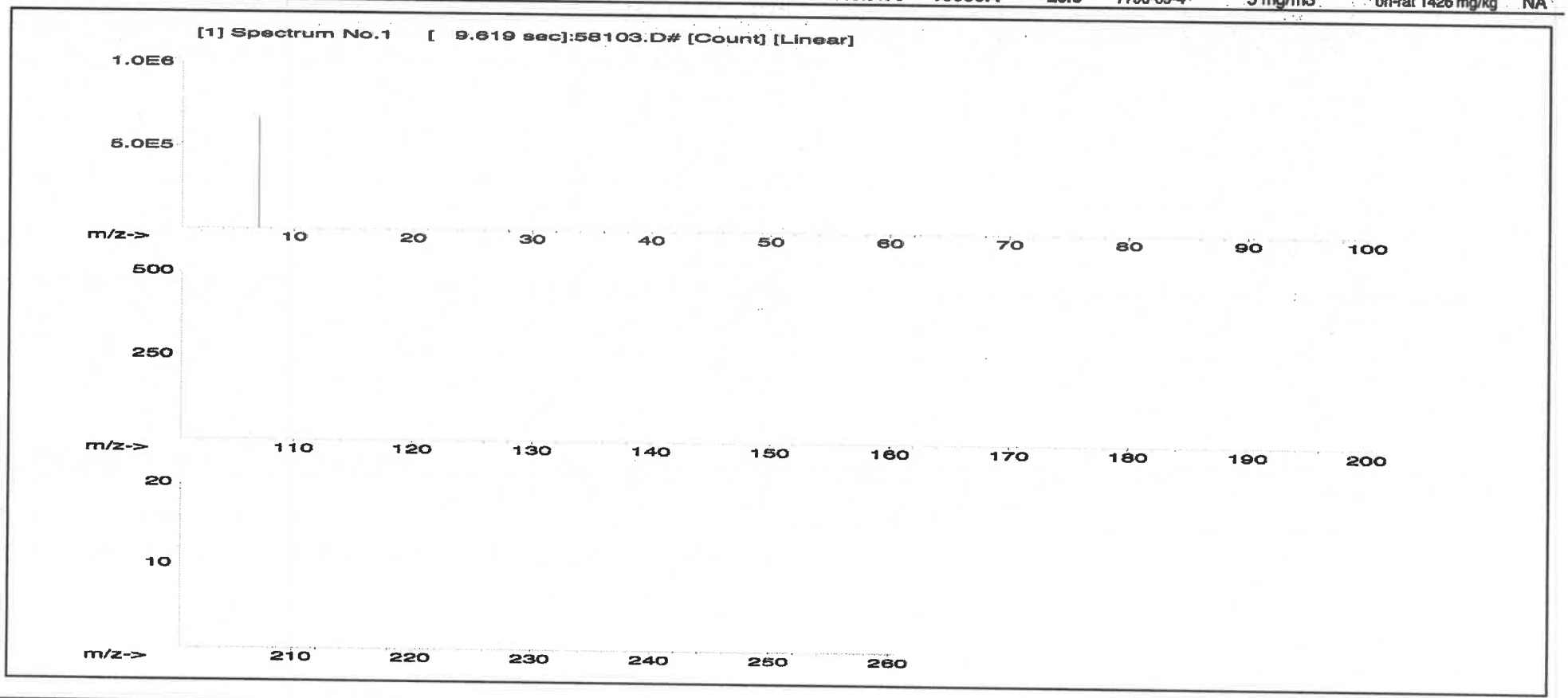
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance 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.
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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

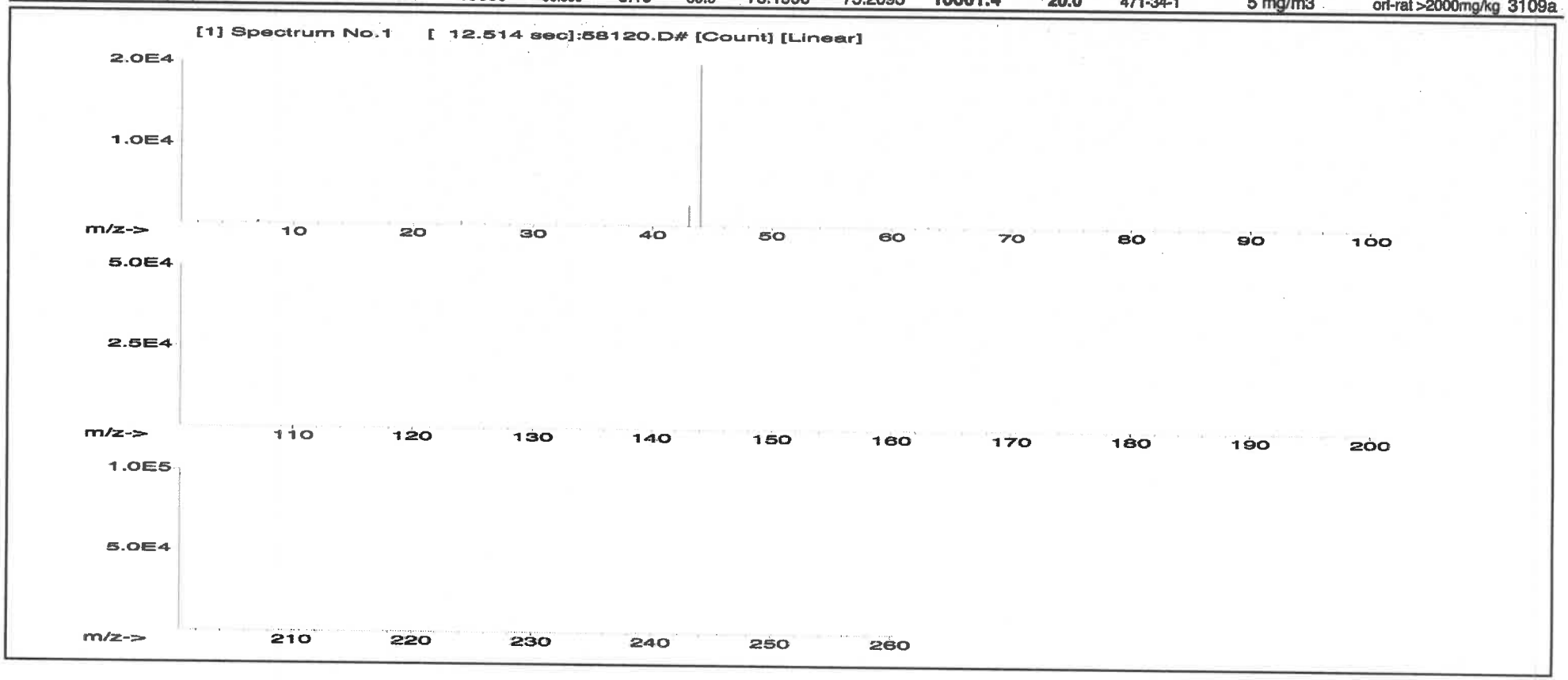
		Lot #	
Solvent:	21110221		Nitric Acid
	2%	60.0 (mL)	Nitric Acid

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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
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Certified Reference Material CRM

IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

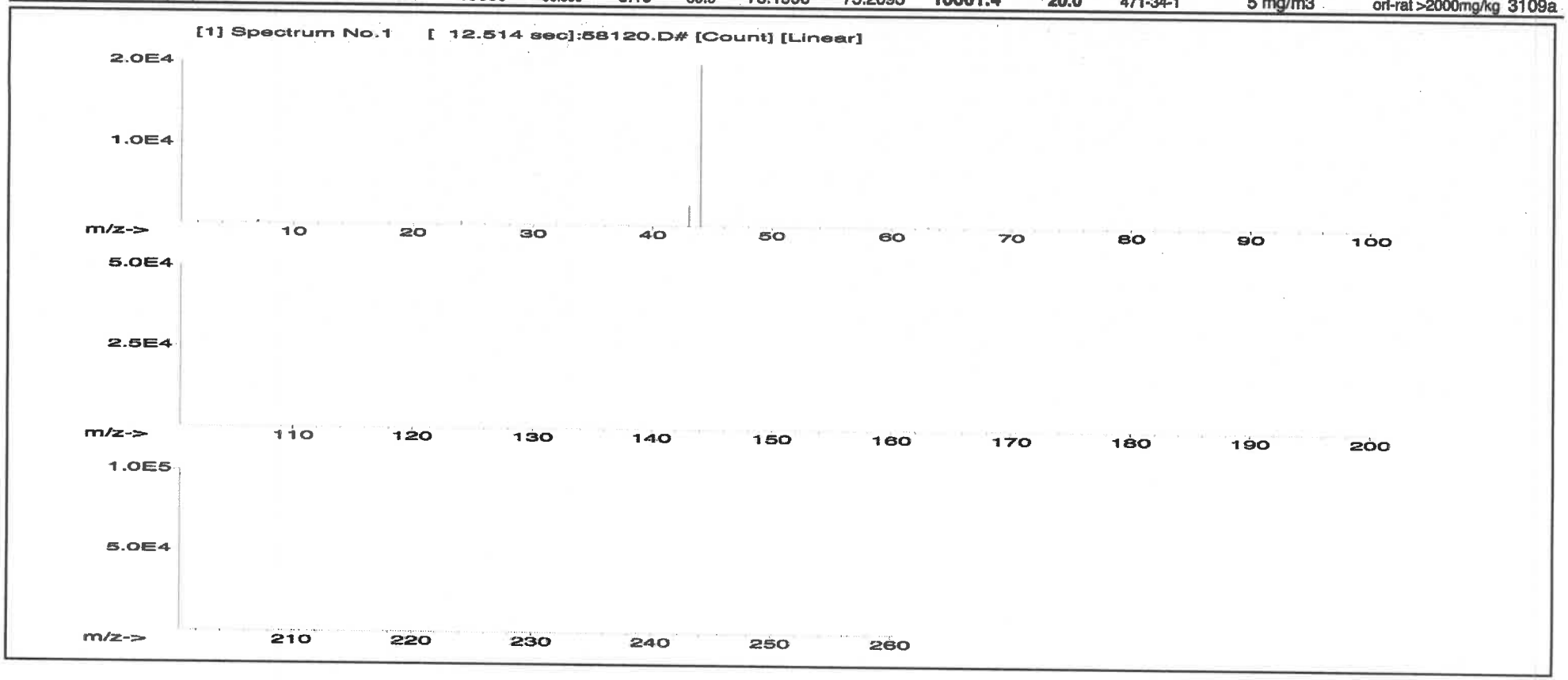
		Lot #	
Solvent:	21110221		Nitric Acid
	2%	60.0 (mL)	Nitric Acid

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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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M 5513 R: 03/17/23

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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

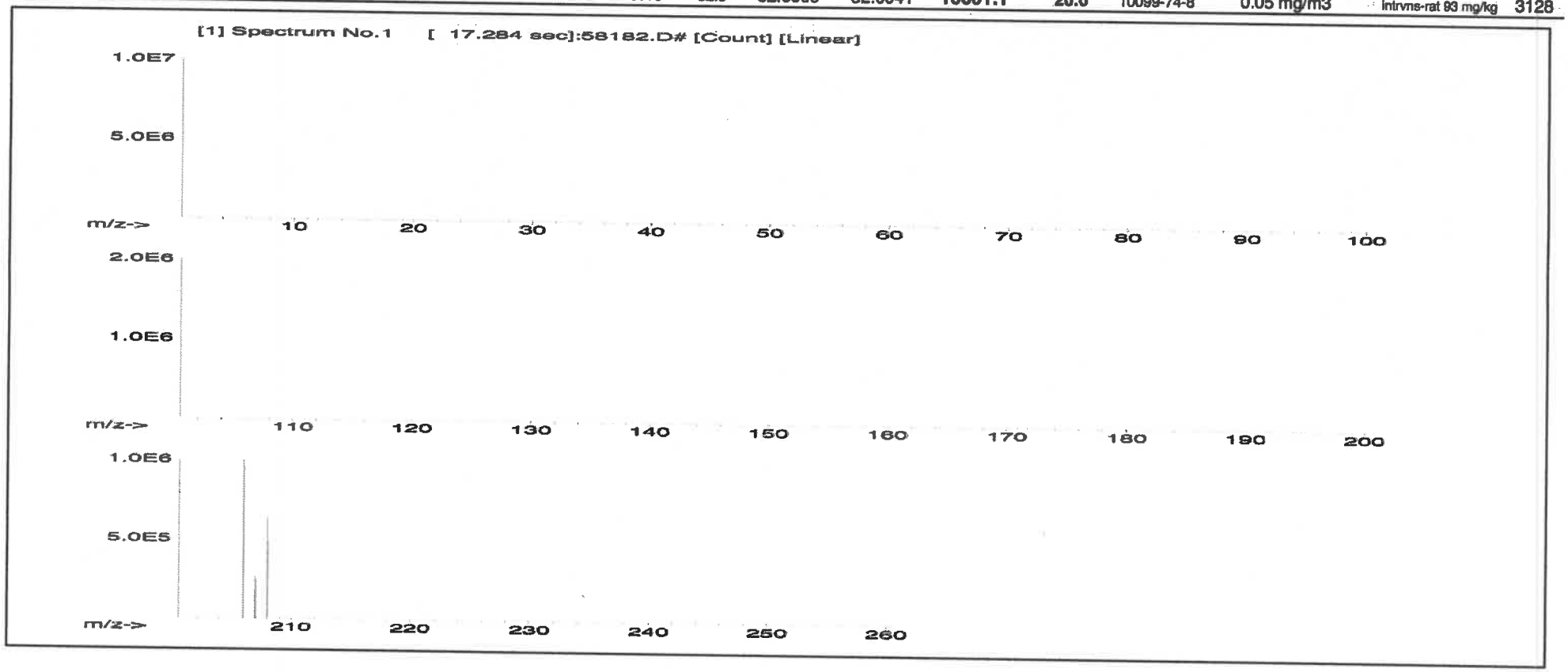
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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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M5514 , M5515 R: 03/17/23

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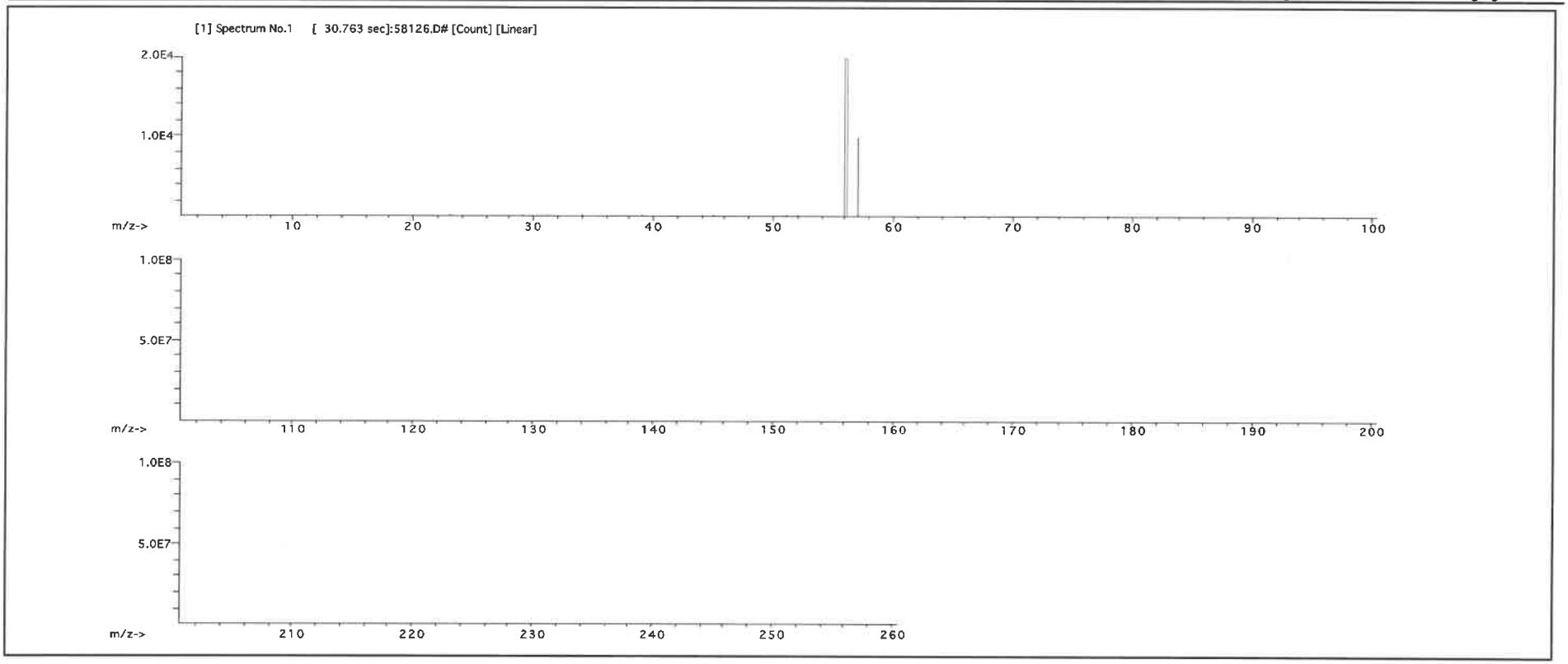
CERTIFIED WEIGHT REPORT:

Part Number:	**58126**		**Lot #**		
Lot Number:	**092122**	**Solvent:**	20510011	Nitric Acid	
Description:	**Iron (Fe)**	7.0%	350.0 (mL)	Nitric Acid	
Expiration Date:	092125				
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):	5000.1	0.12	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	092122
Reviewed By:	Pedro L. Rentas	092122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2224912-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



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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M5519. M5520 (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

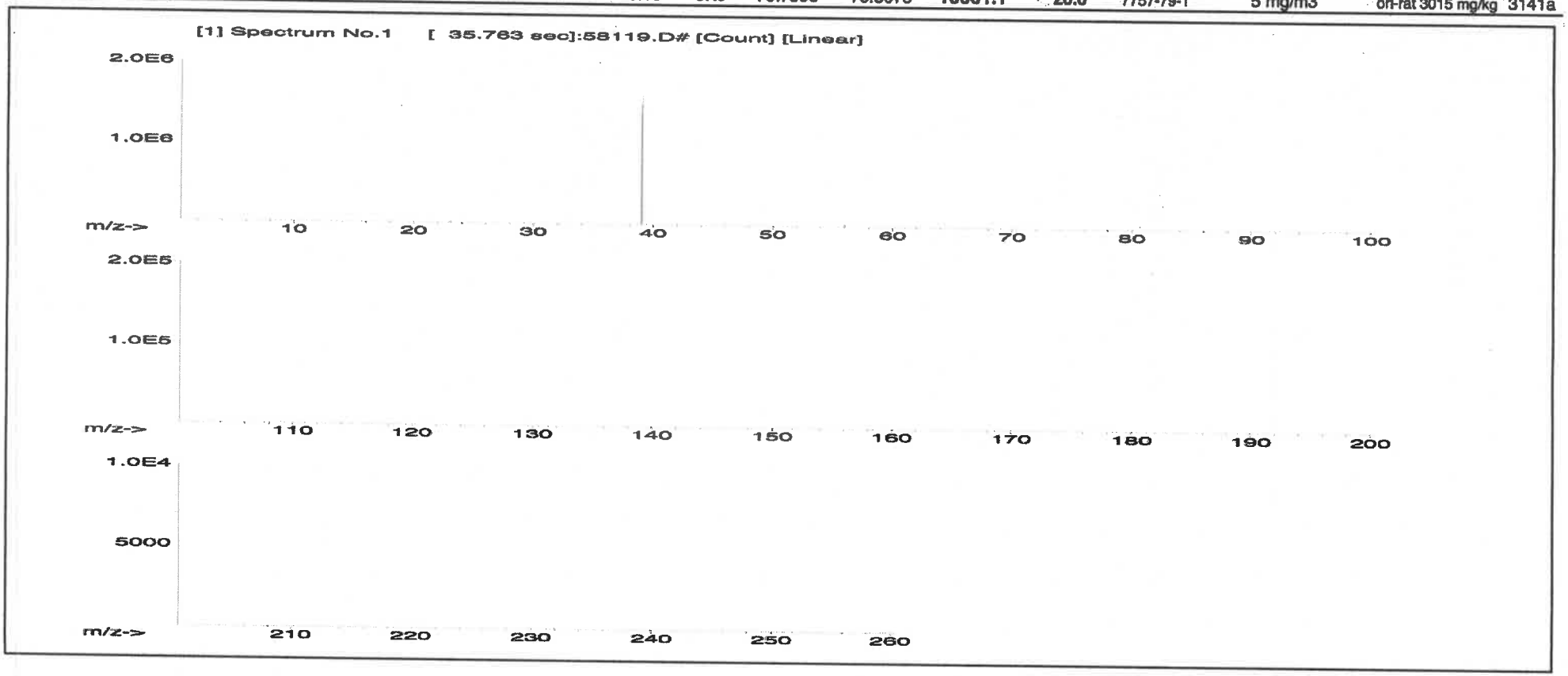
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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M5658 R! 8/25/23

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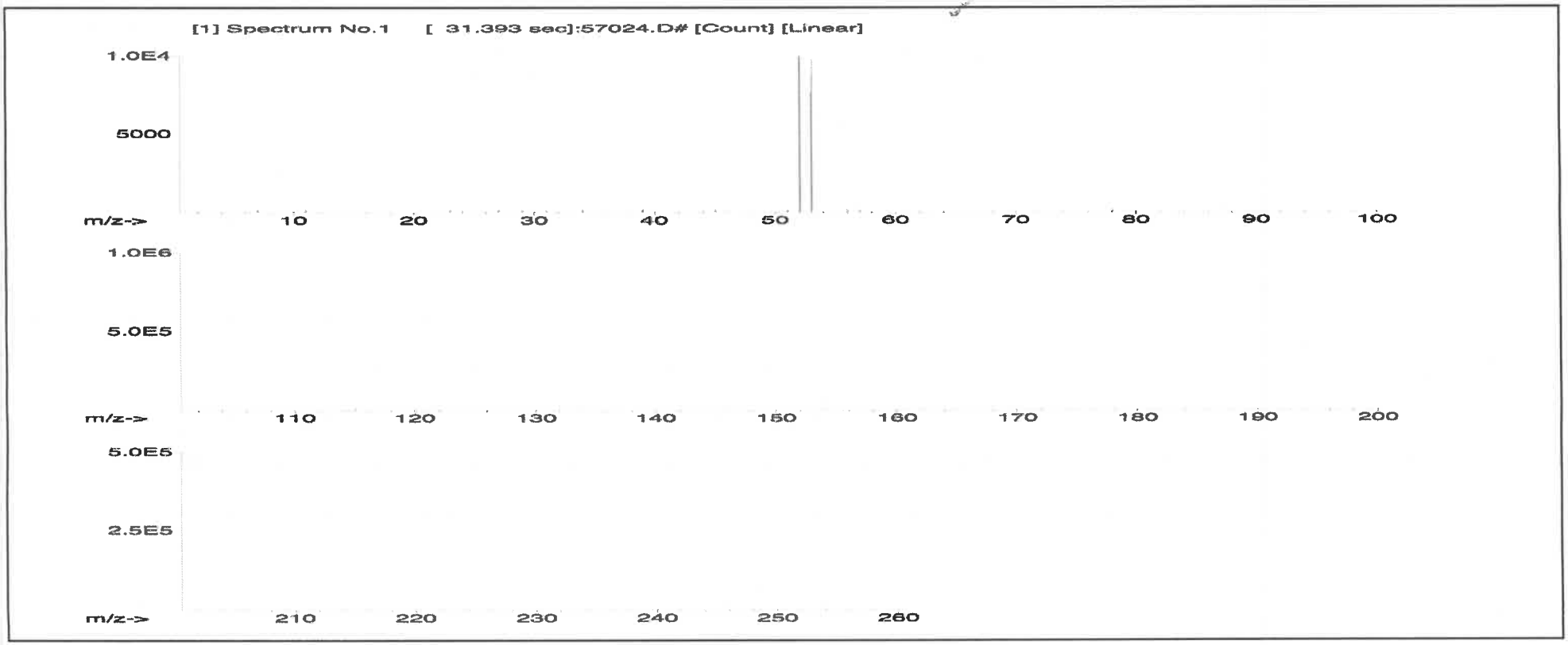
CERTIFIED WEIGHT REPORT:

		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.

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M5697 R: 10/27/23

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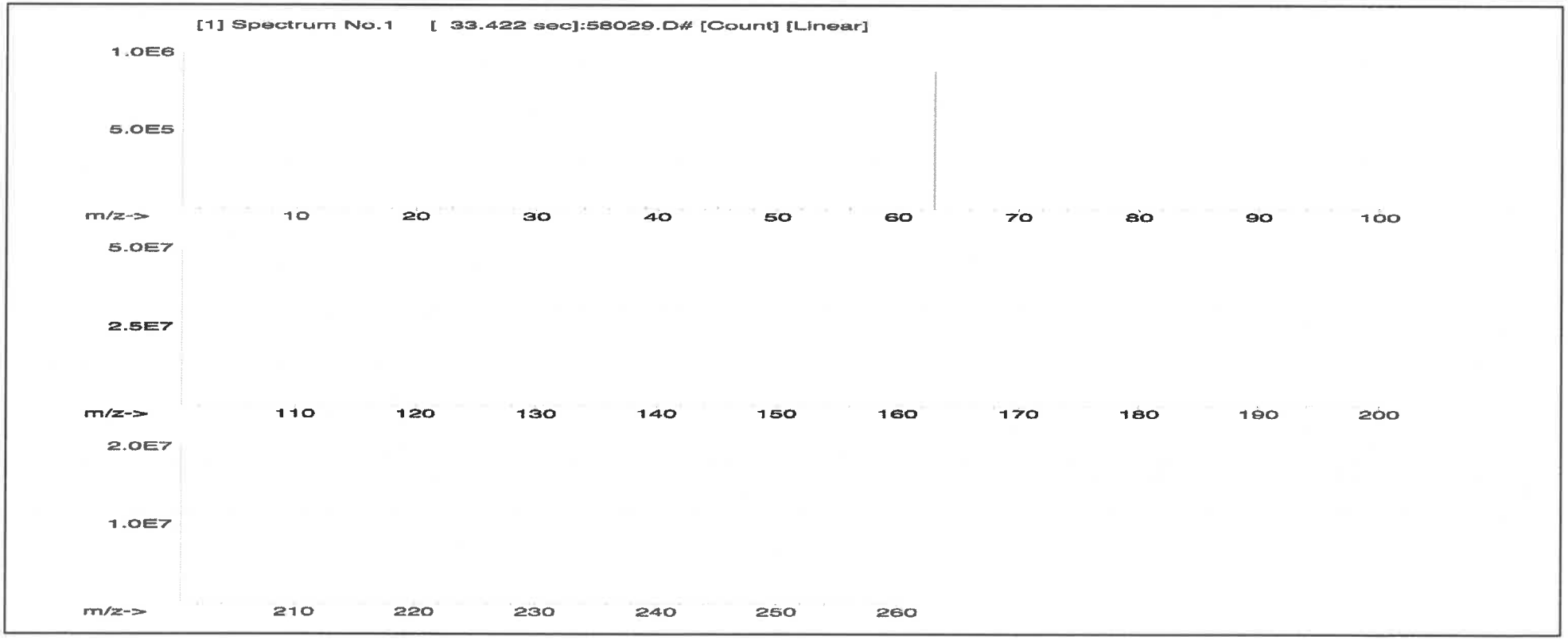
CERTIFIED WEIGHT REPORT:

		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:

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M5648 R: 10/27/23

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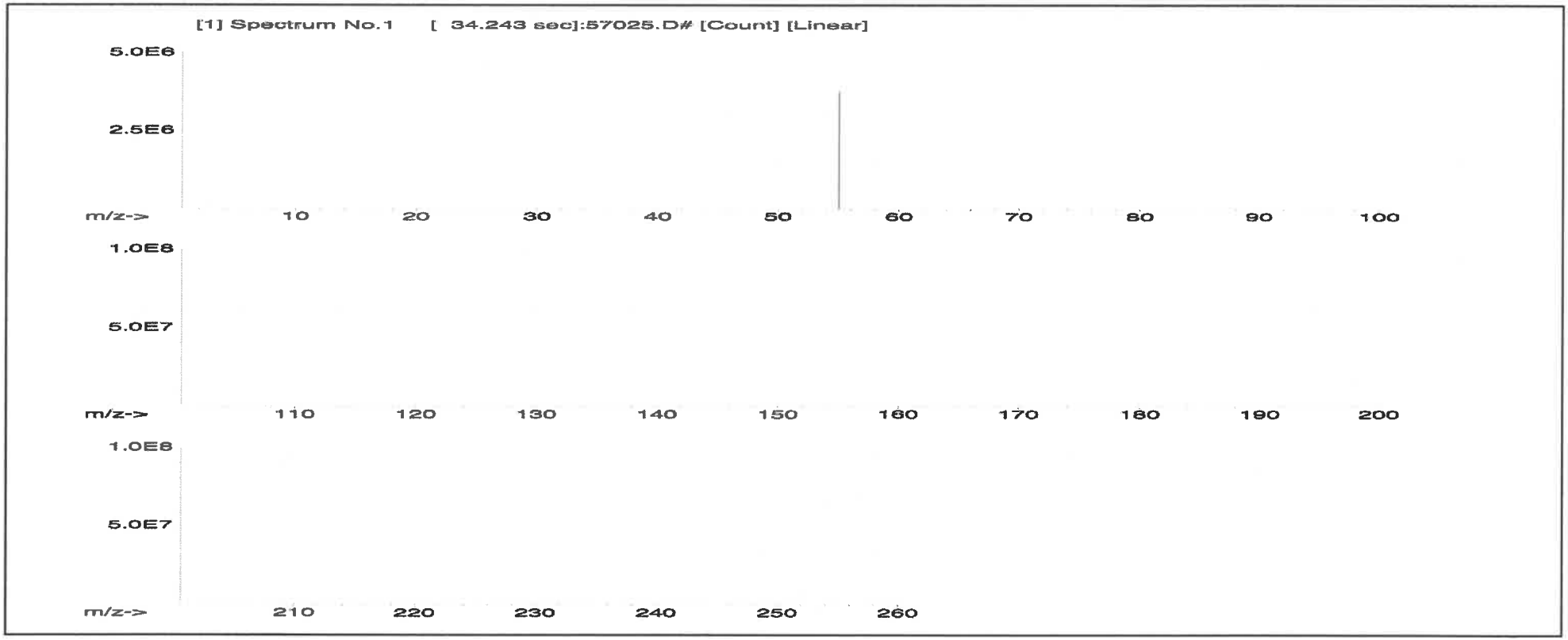
CERTIFIED WEIGHT REPORT:

		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.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 8/25/23 M5751

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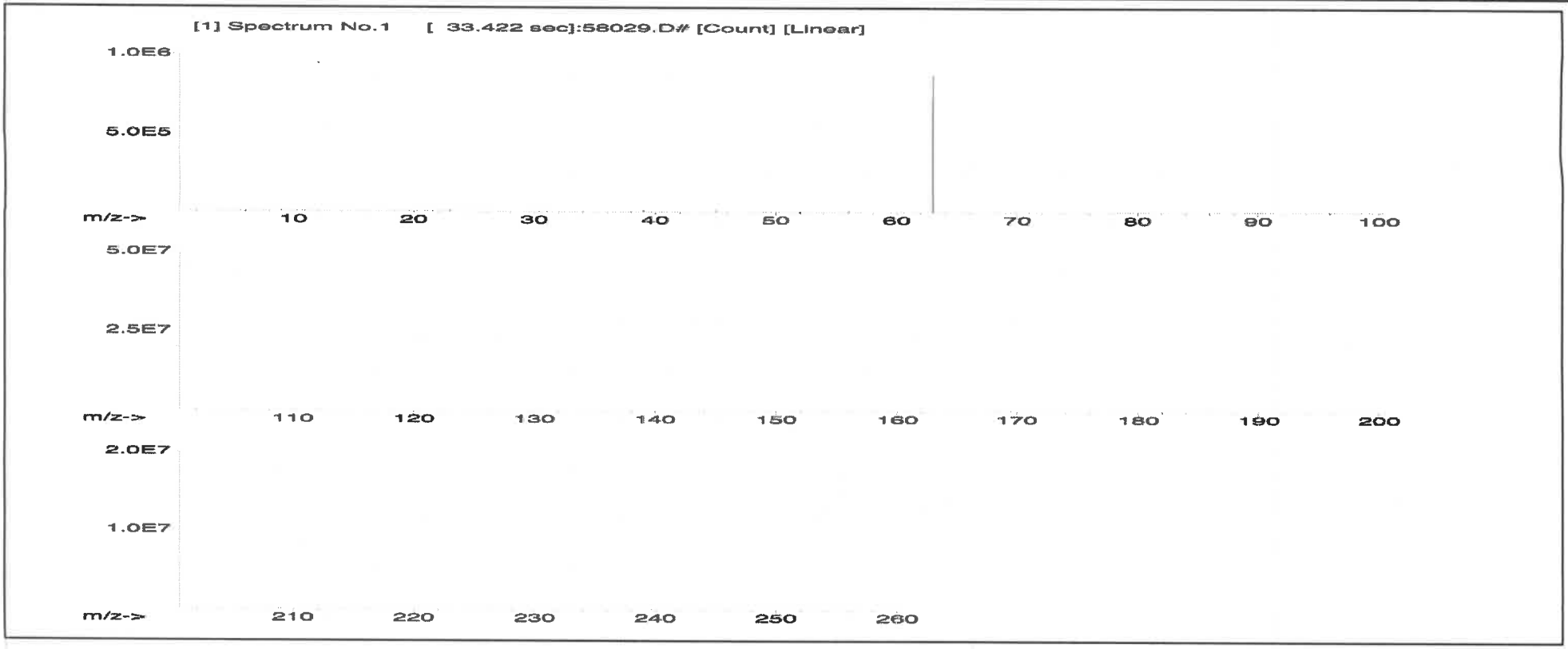
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Rentas	071723

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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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

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

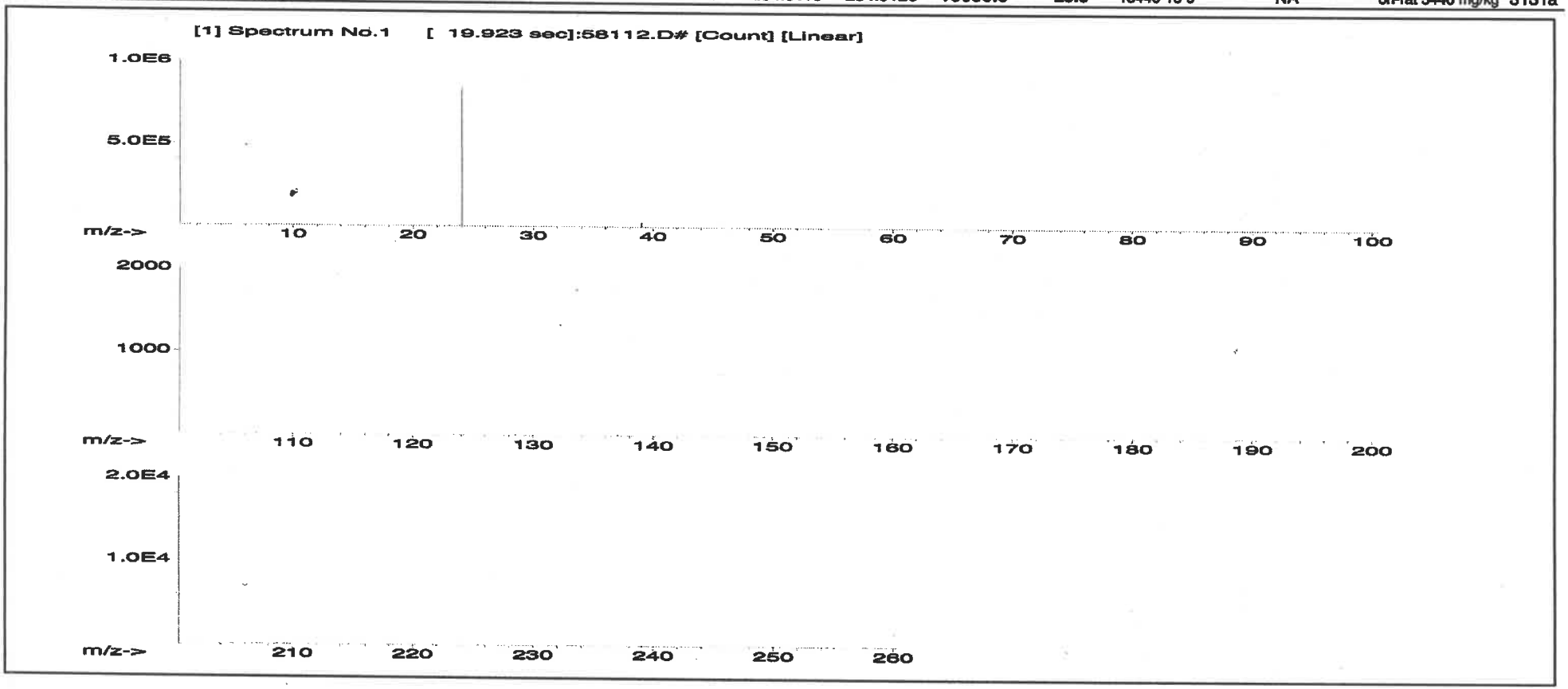
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By:	Lawrence Barry	091823
Reviewed By:	Pedro L. Rentas	091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



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:

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

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

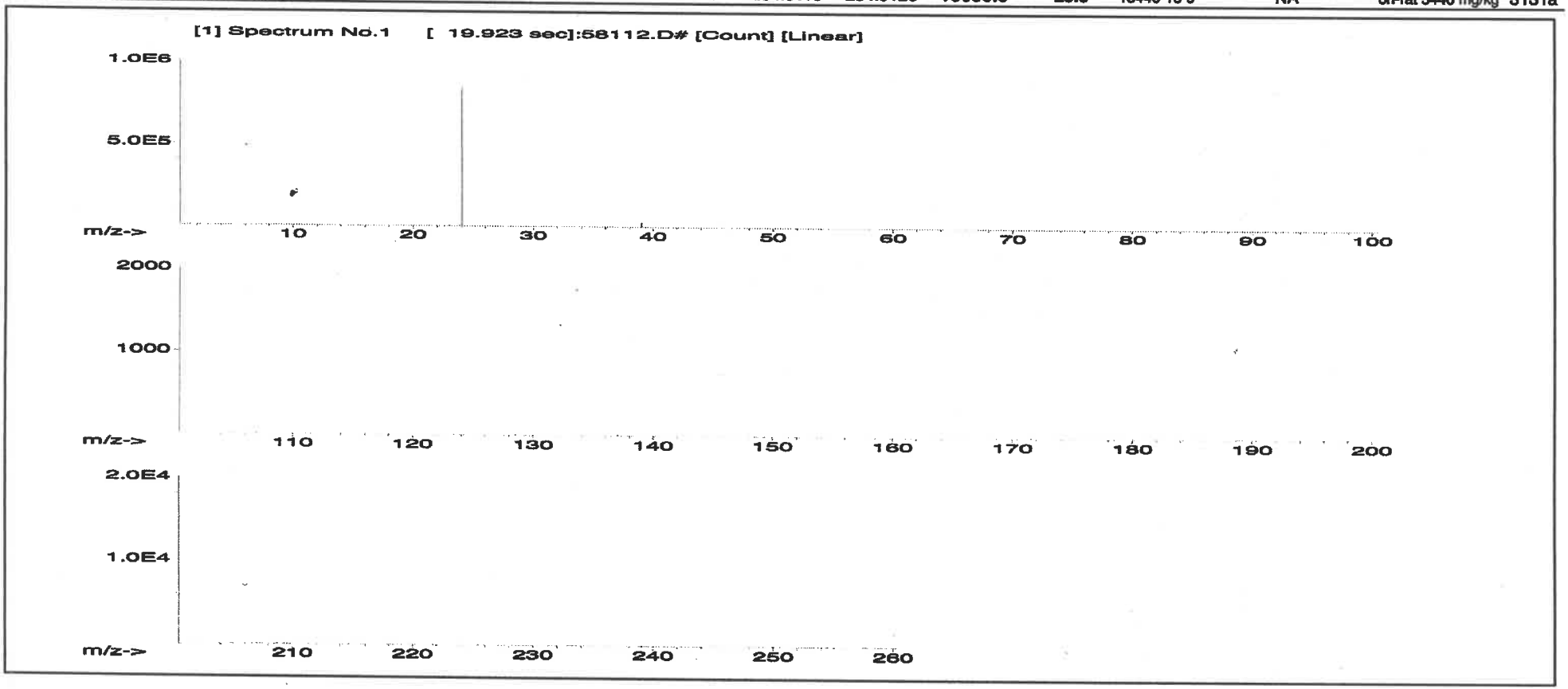
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By:	Lawrence Barry	091823
Reviewed By:	Pedro L. Rentas	091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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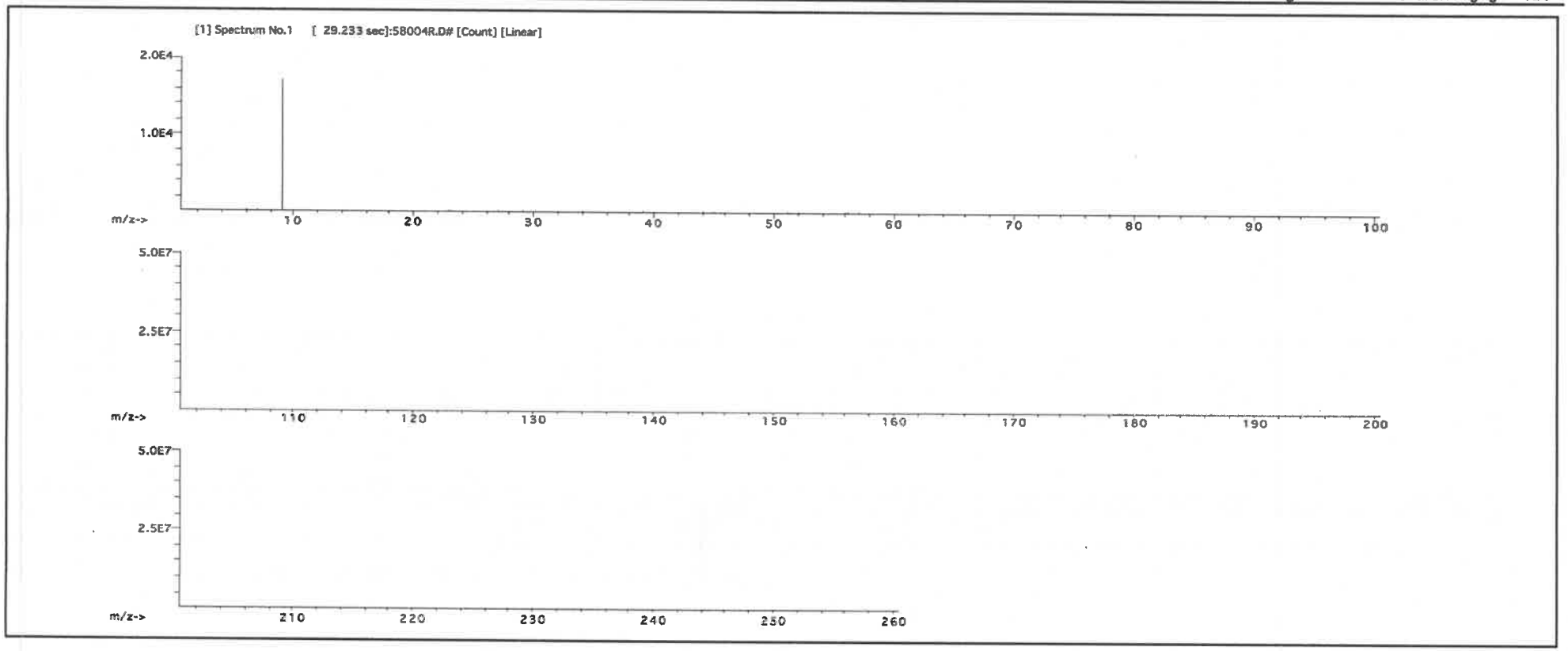
CERTIFIED WEIGHT REPORT:

		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.

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

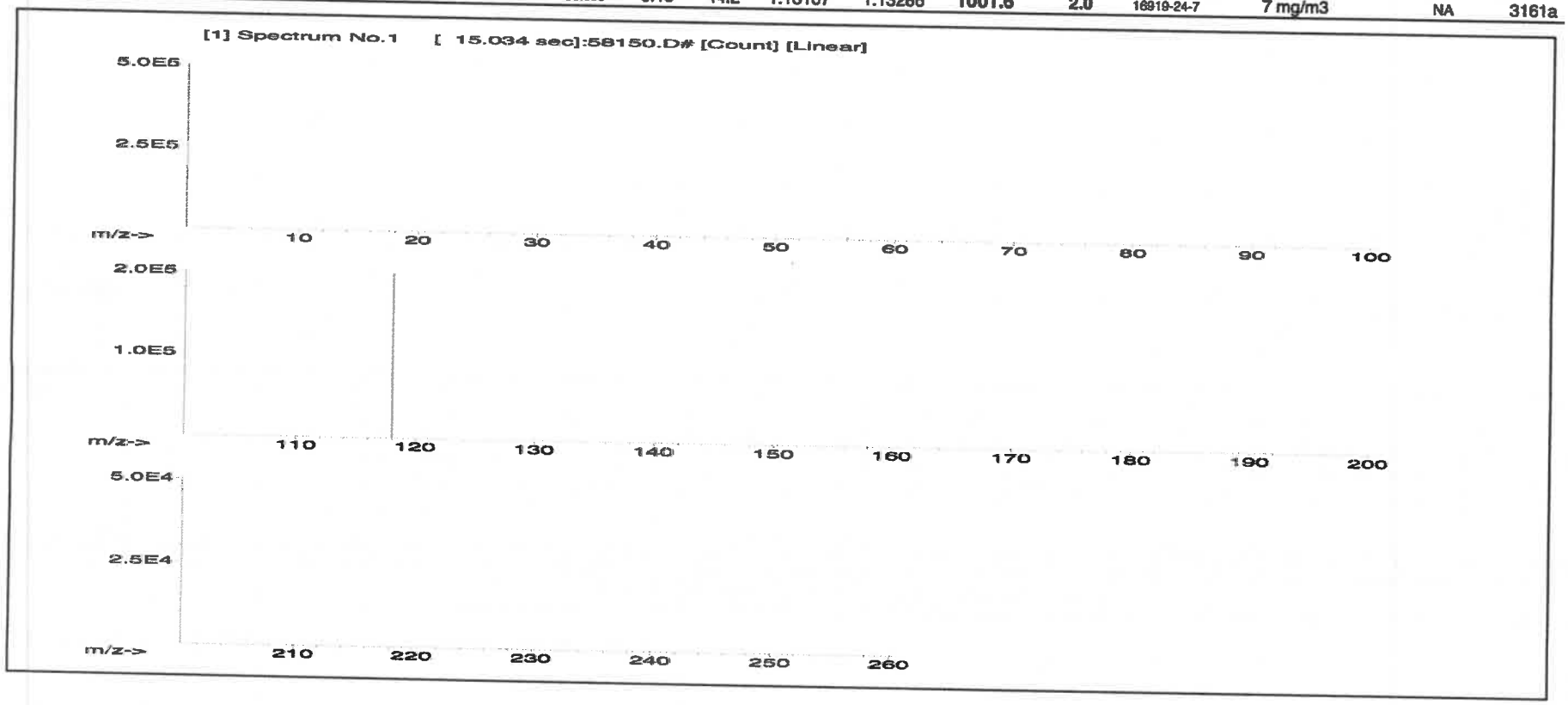
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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:

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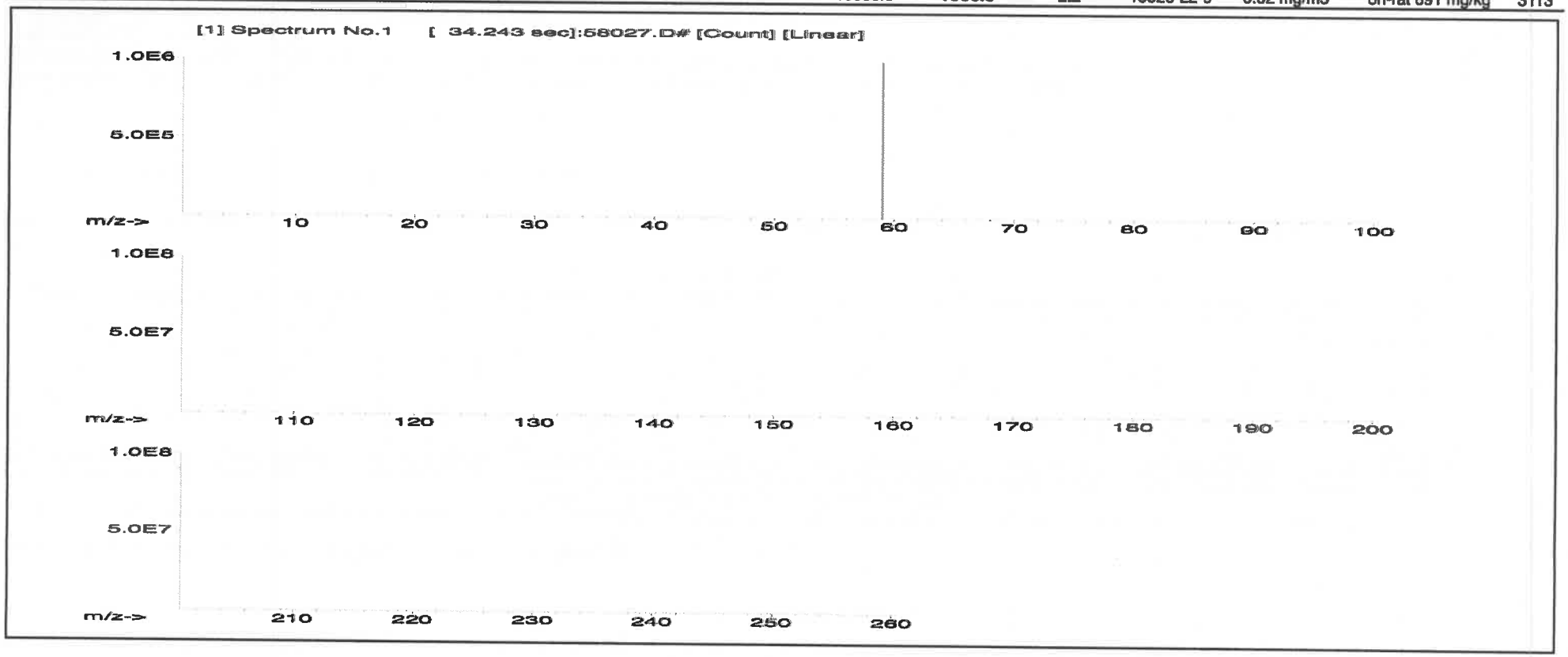
CERTIFIED WEIGHT REPORT:

		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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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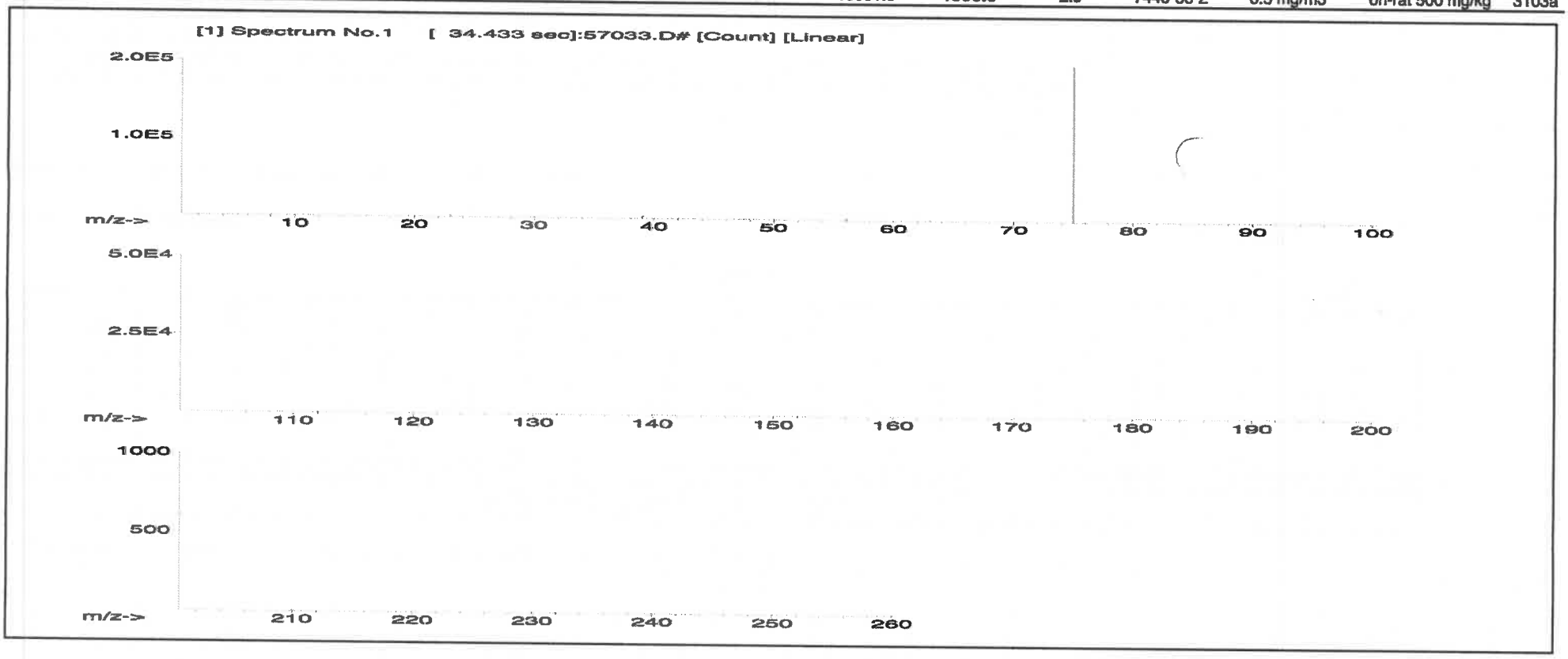
CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**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.

* 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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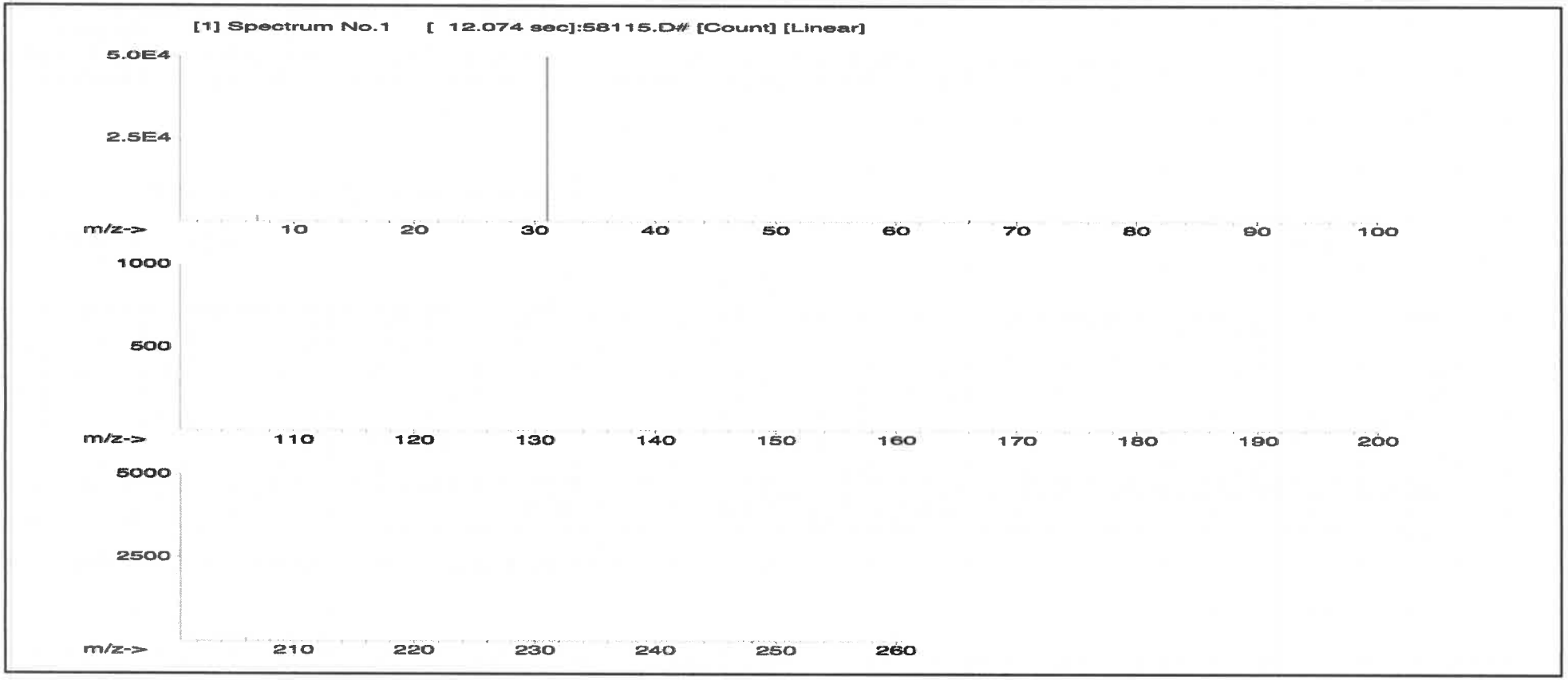
CERTIFIED WEIGHT REPORT:

			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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* 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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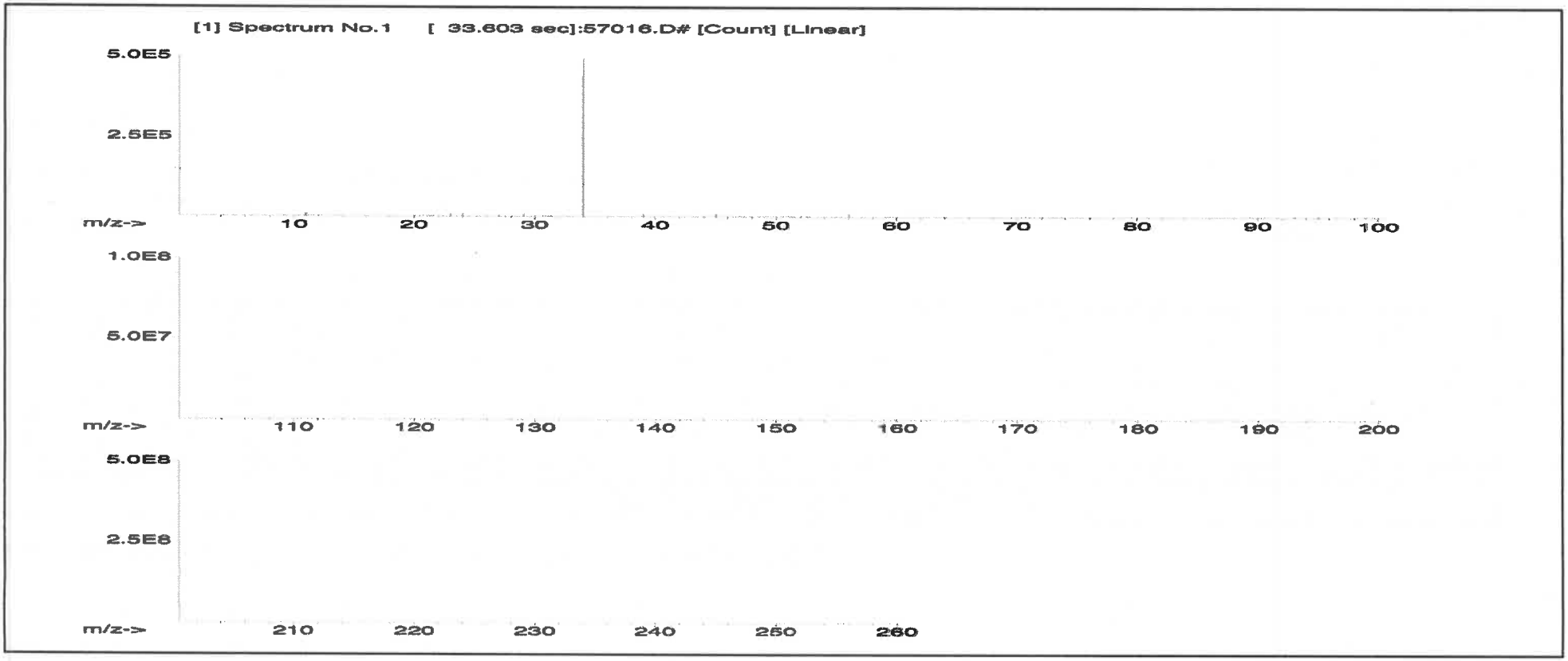
CERTIFIED WEIGHT REPORT:

Part Number:	**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:

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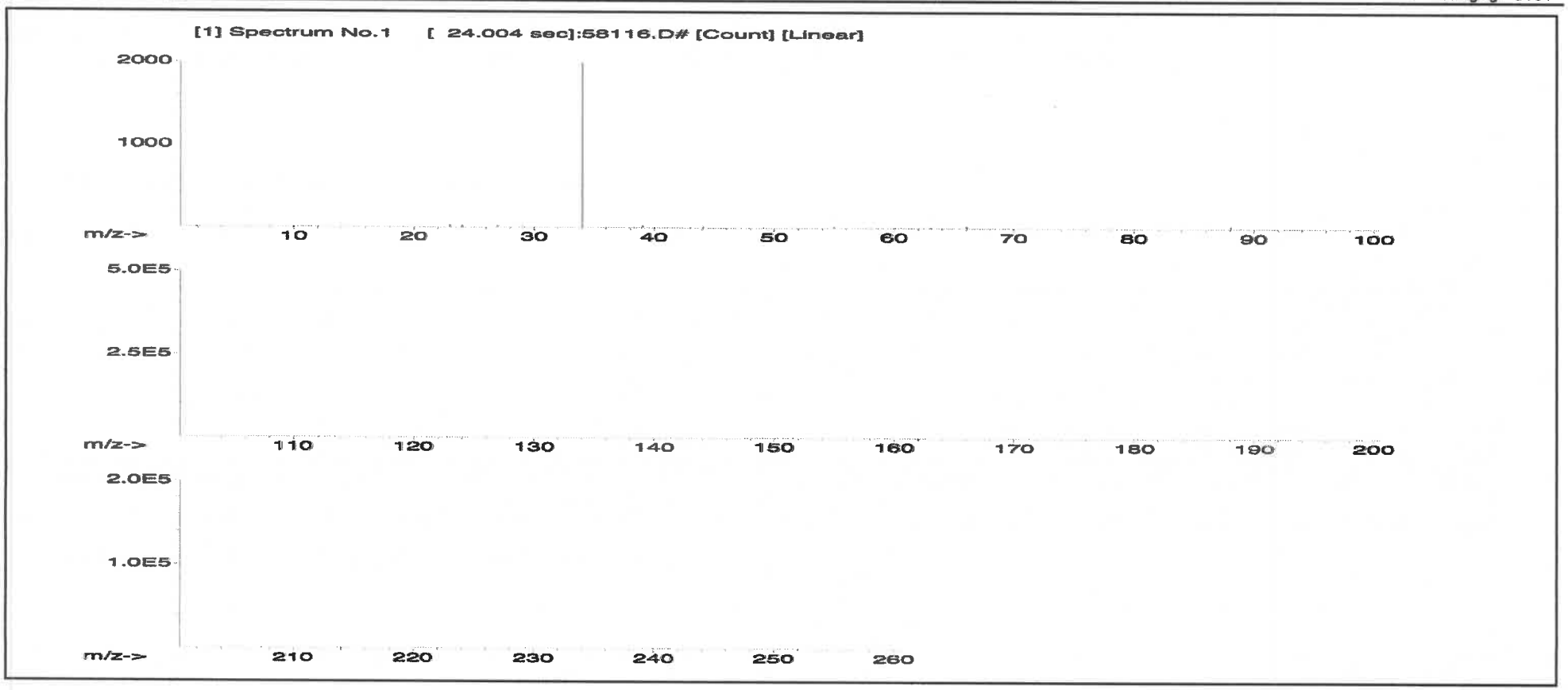
CERTIFIED WEIGHT REPORT:

Part Number:	**57116**			
Lot Number:	**071123**	**Solvent:**	071123	ASTM Type 1 Water
Description:	**Sulfur (S)**			
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	

Lot #

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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* 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 M.5818

Lot #

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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

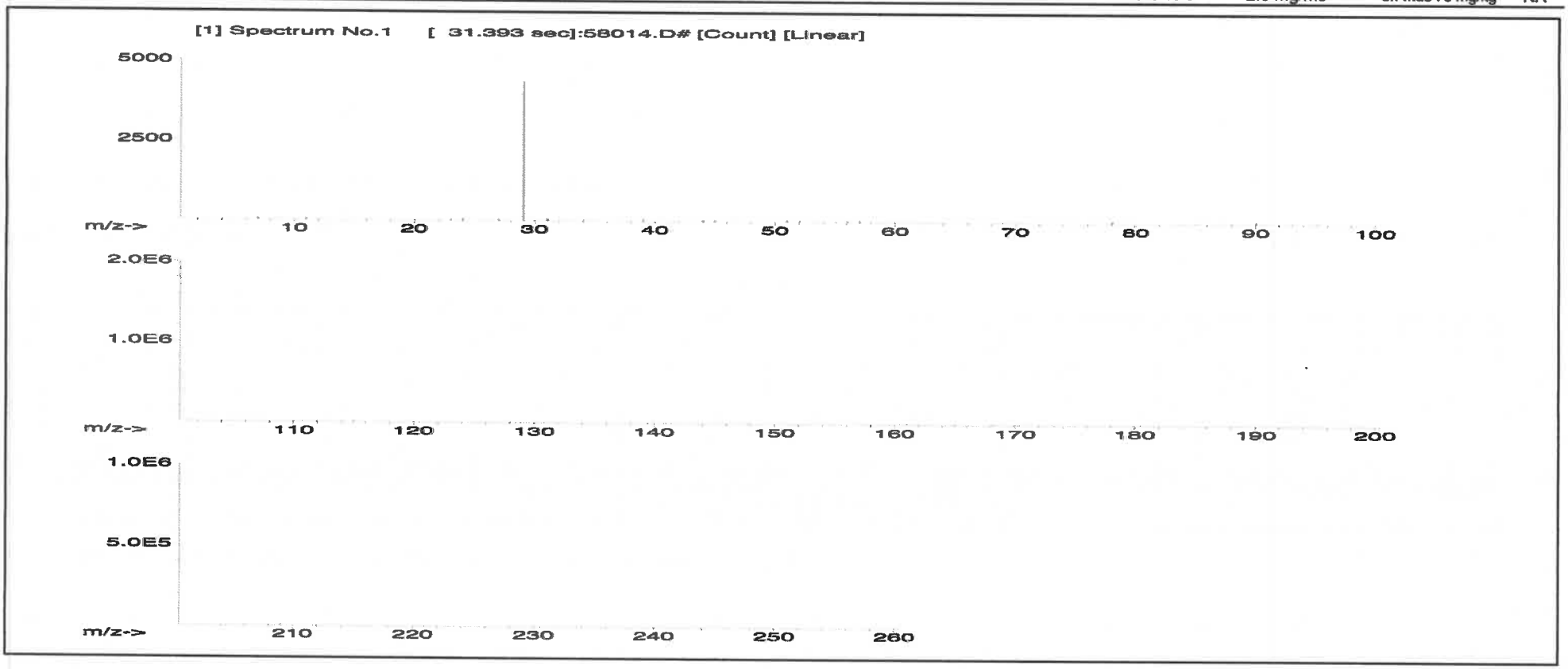
Aleah O'Brady

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:

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 M5819

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

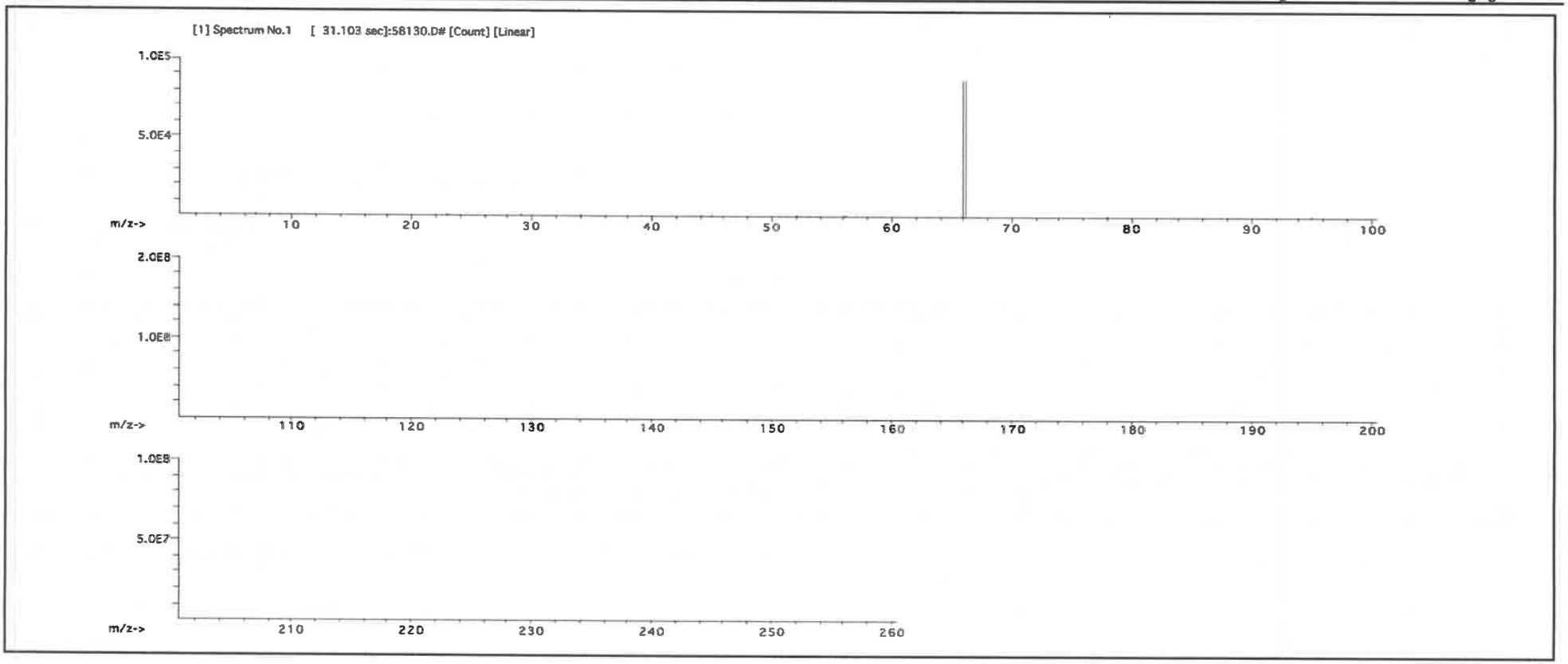
Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

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:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5820

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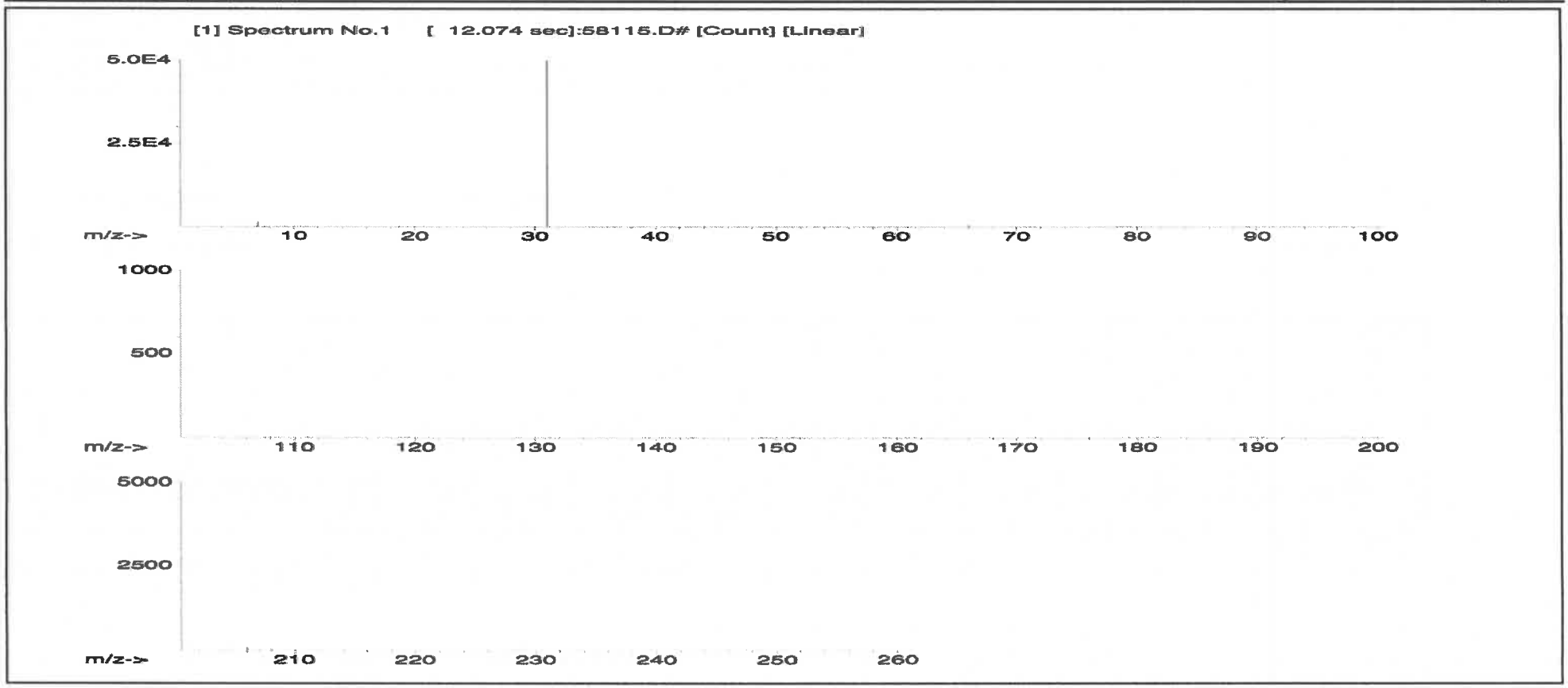
CERTIFIED WEIGHT REPORT:

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.

* 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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* 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

M5959 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 863.01
ACCREDITED Reference Material Producer Certificate 863.02

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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	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

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

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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Certified Reference Material CRM

M5960 KK R. 6/11/24

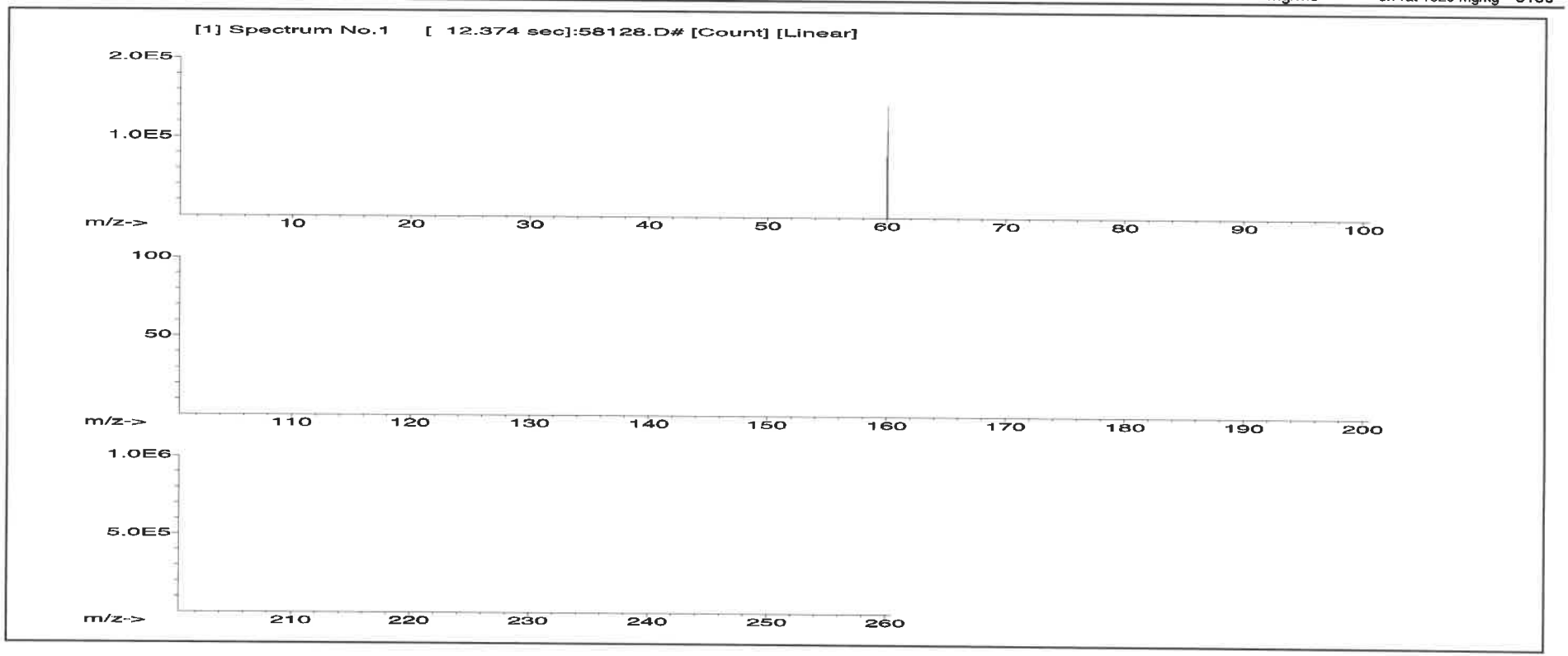
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57028**		**Lot #**		
Lot Number:	**041124**	**Solvent:**	24002546	Nitric Acid	
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	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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M5962 R! 06/14/24.

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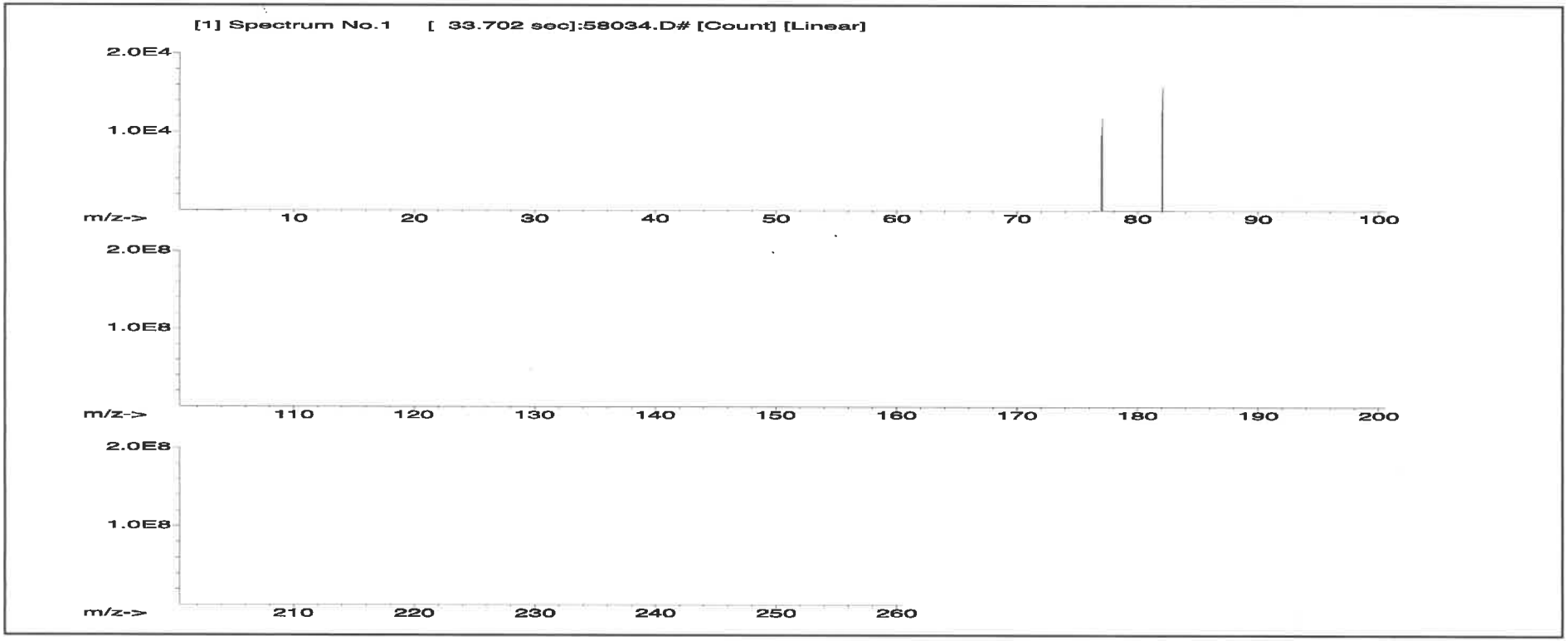
https://Absolutestandards.com

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.
800-368-1131
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:

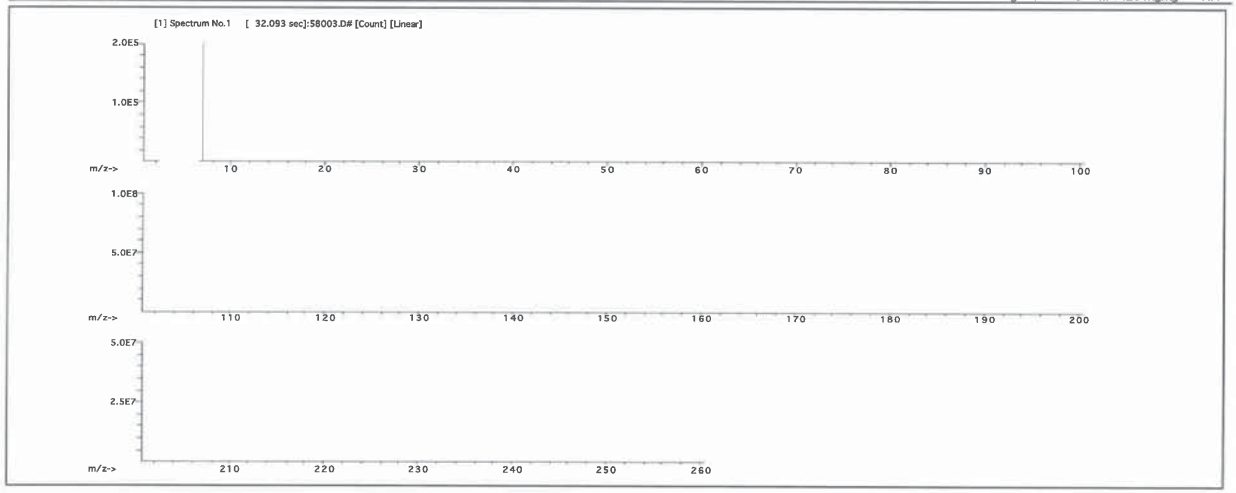
		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito

Formulated By: Giovanni Esposito 062124

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

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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:

$X_{CRM/RM} = \Sigma(w_i)(\bar{x}_i)$

$\bar{x}_i$ = 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:

$X_{CRM/RM} = (\bar{x}_a)\ (u_{char\ a})$

$\bar{x}_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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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

45982 R: 6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

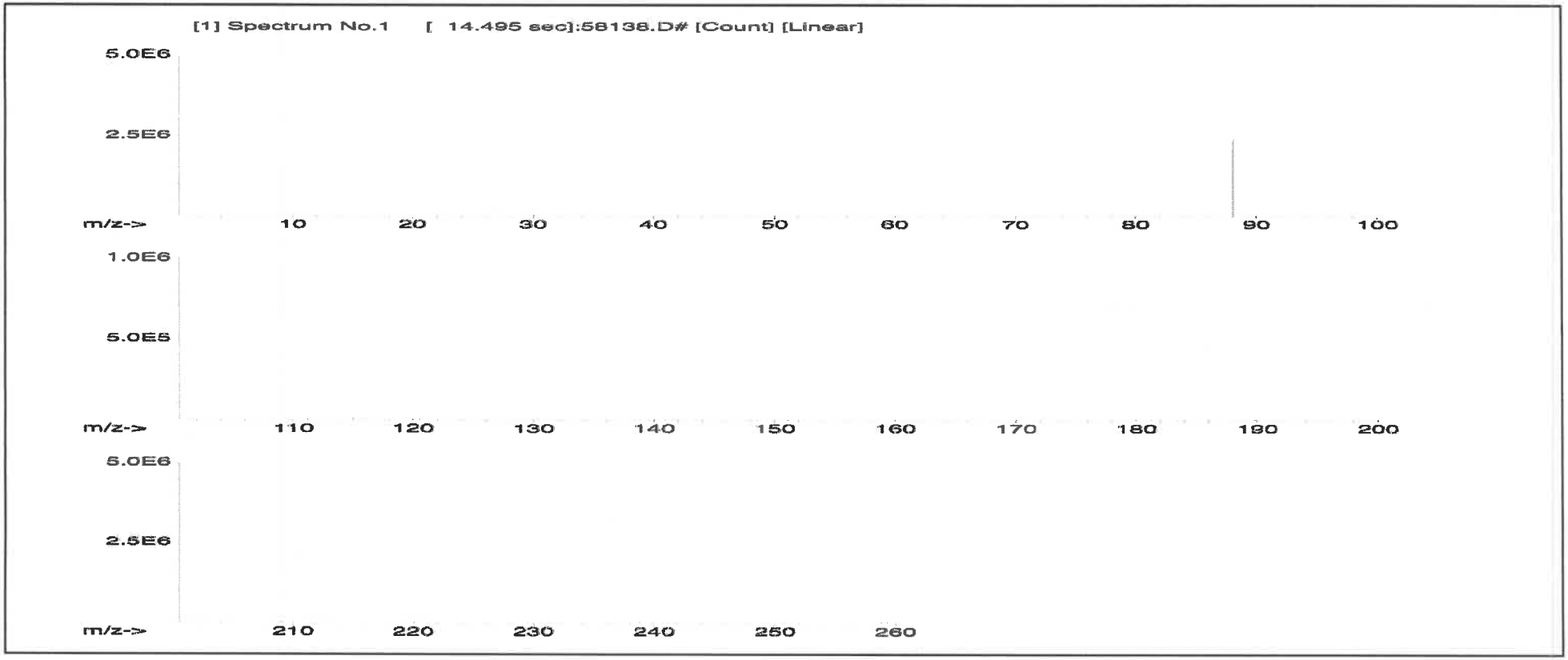
Part Number: 57038
Lot Number: 031524
Description: Strontium (Sr)

Expiration Date: 031527
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
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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MS985
R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 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	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

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 - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	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:

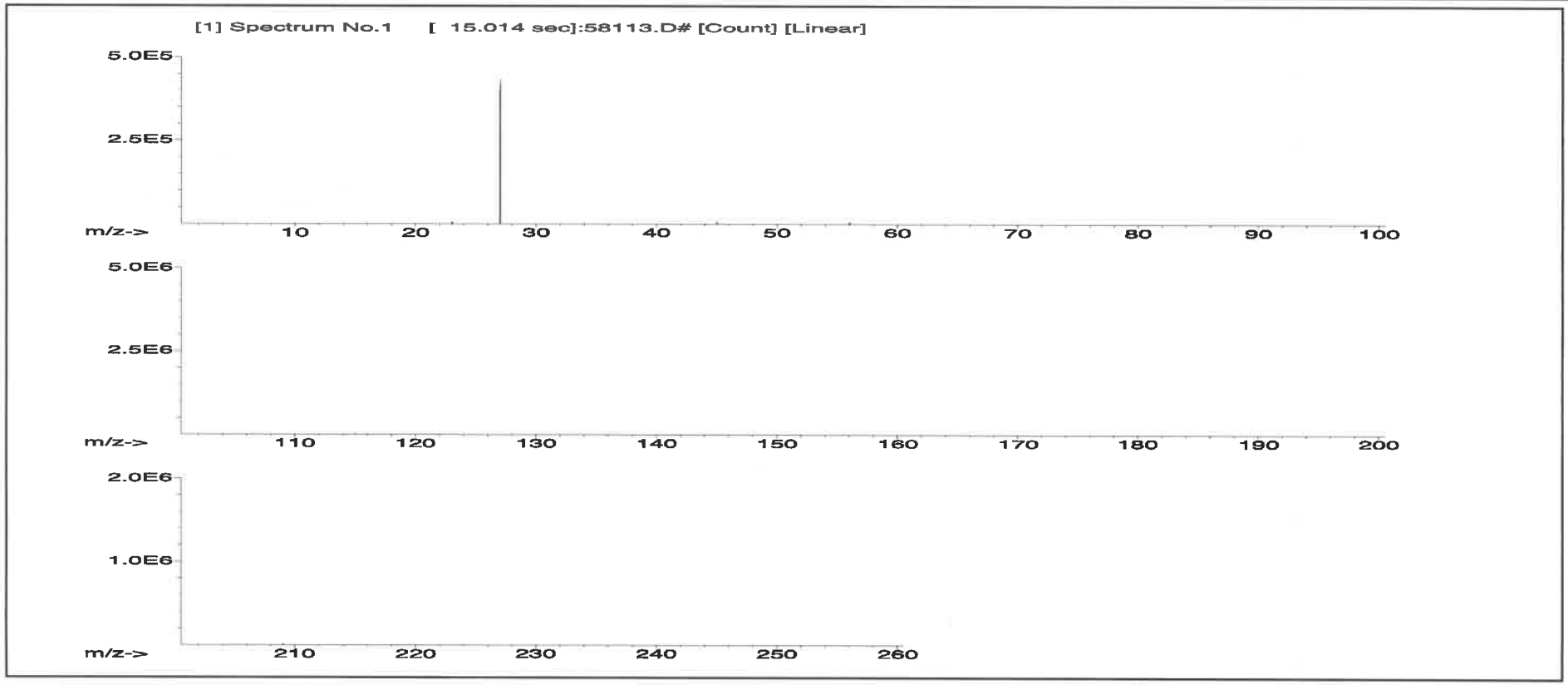
Part Number:	**58113**		**Solvent:**	20510011	Nitric Acid
Lot Number:	**011623**				
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05 Balance Uncertainty			
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



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M6109
M6110
M6111

Received date 9/29/24 Met dig.

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009
Manufactured Date: 2022-05-10
Retest Date: 2027-05-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	0.8 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	14.9 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.8 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	1.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	0.7 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

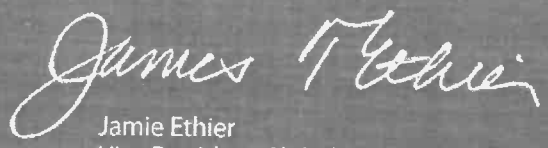
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

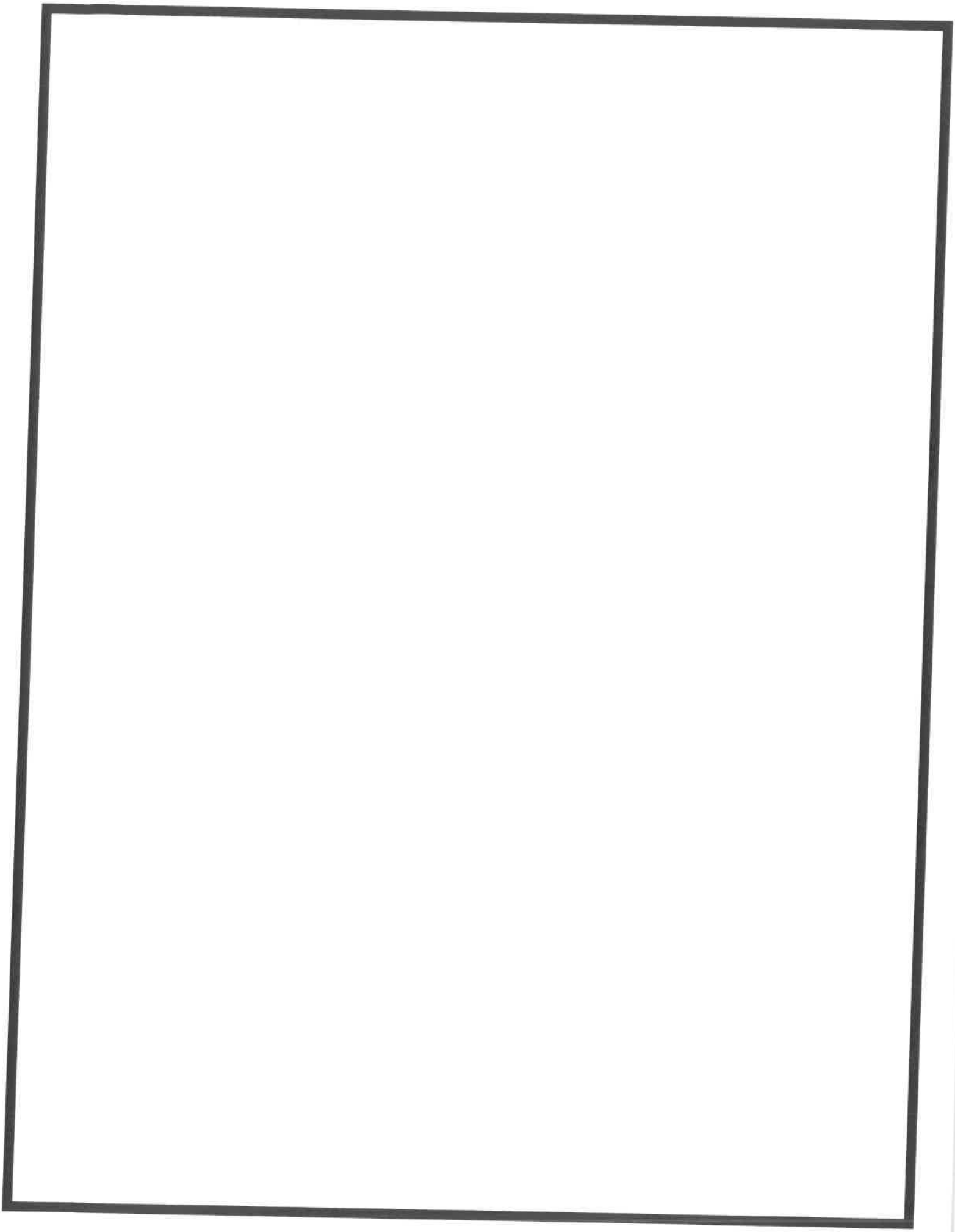
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

Hydrogen Peroxide 30%, ACS

Reagent Grade

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from suspended matter or sediment
Assay	29-32%
Color (APHA)	10
Residue after Evaporation	0.002%
Titratable Acid	0.0006 meq/g
Chloride (Cl)	3 ppm
Nitrate (NO_3)	2 ppm
Phosphate	2 ppm
Sulfate (SO_4)	5 ppm
Ammonium (NH_4)	5 ppm
Heavy Metals (as Pb)	1 ppm
Iron (Fe)	0.5 ppm



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | 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

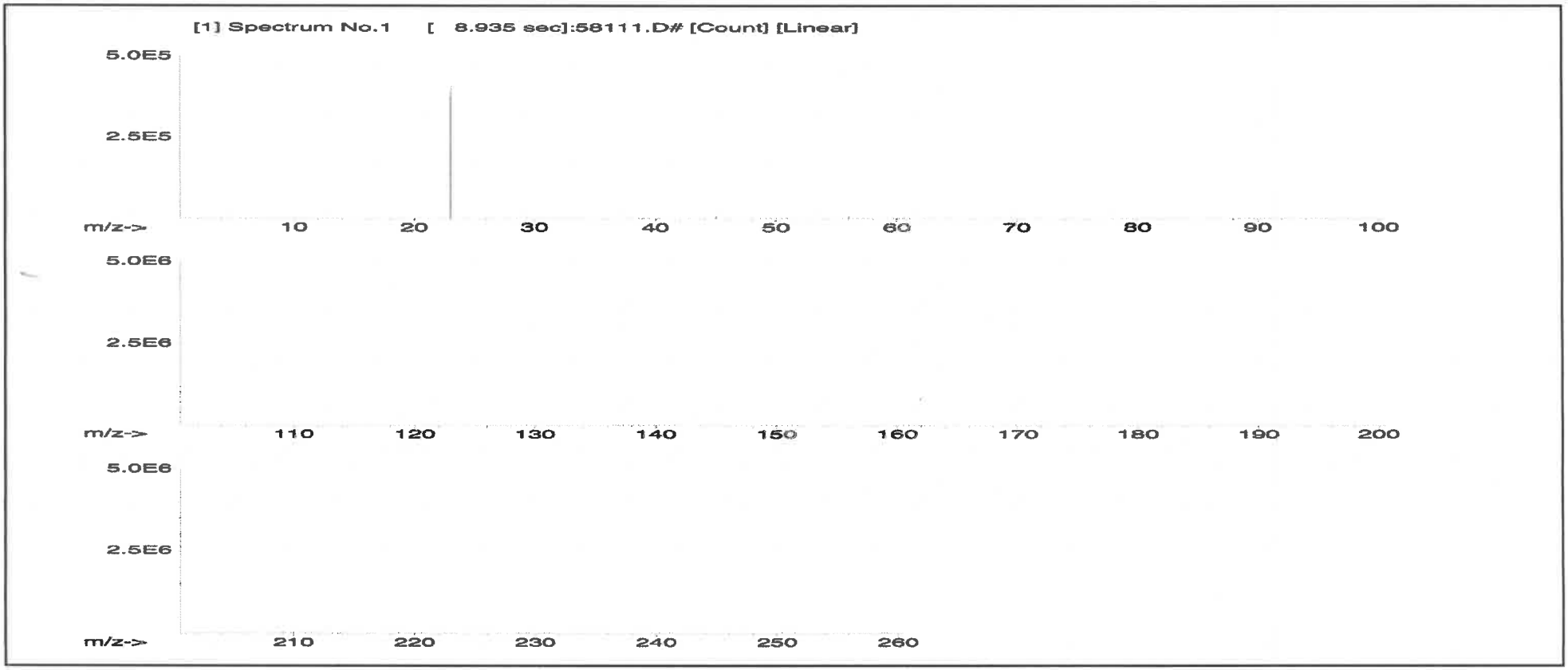
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

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.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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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: 01/03/24 M5802, M5803

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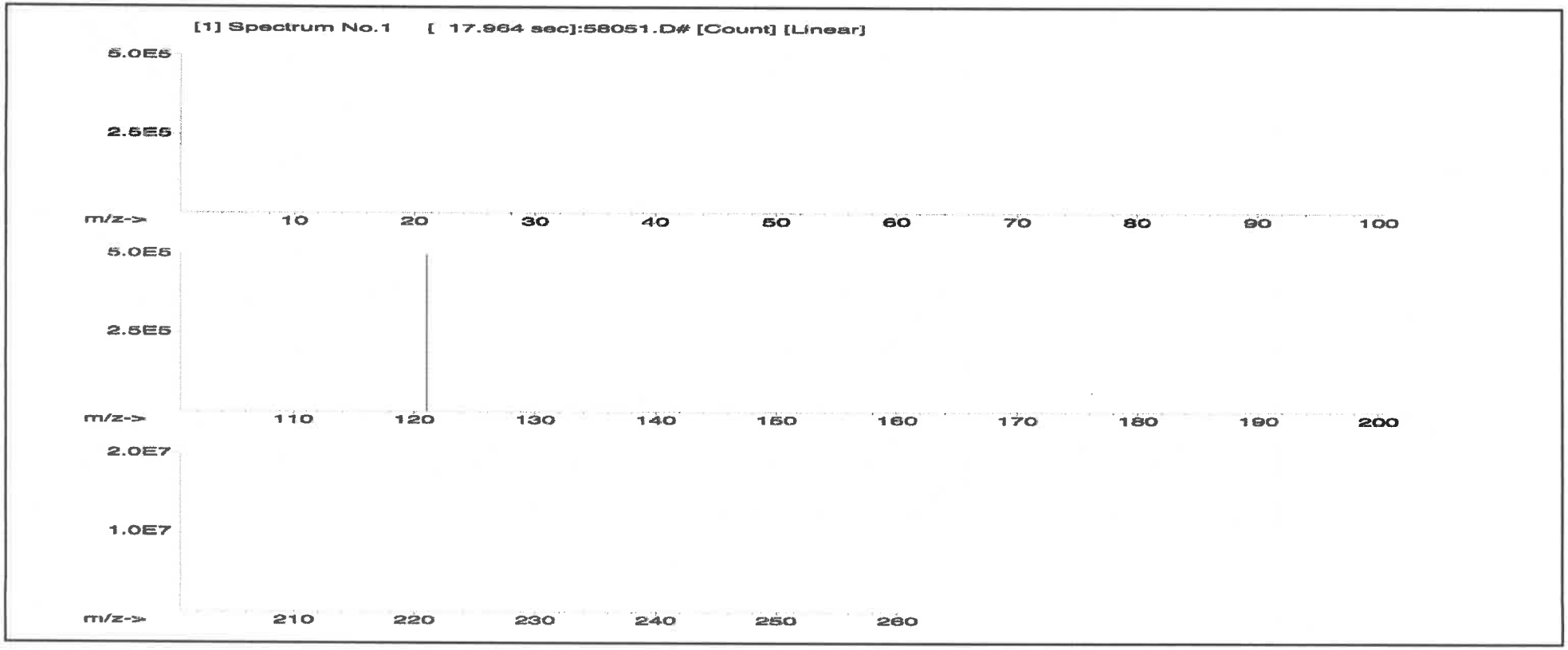
CERTIFIED WEIGHT REPORT:

		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:

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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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M6030

R: 8/5/24

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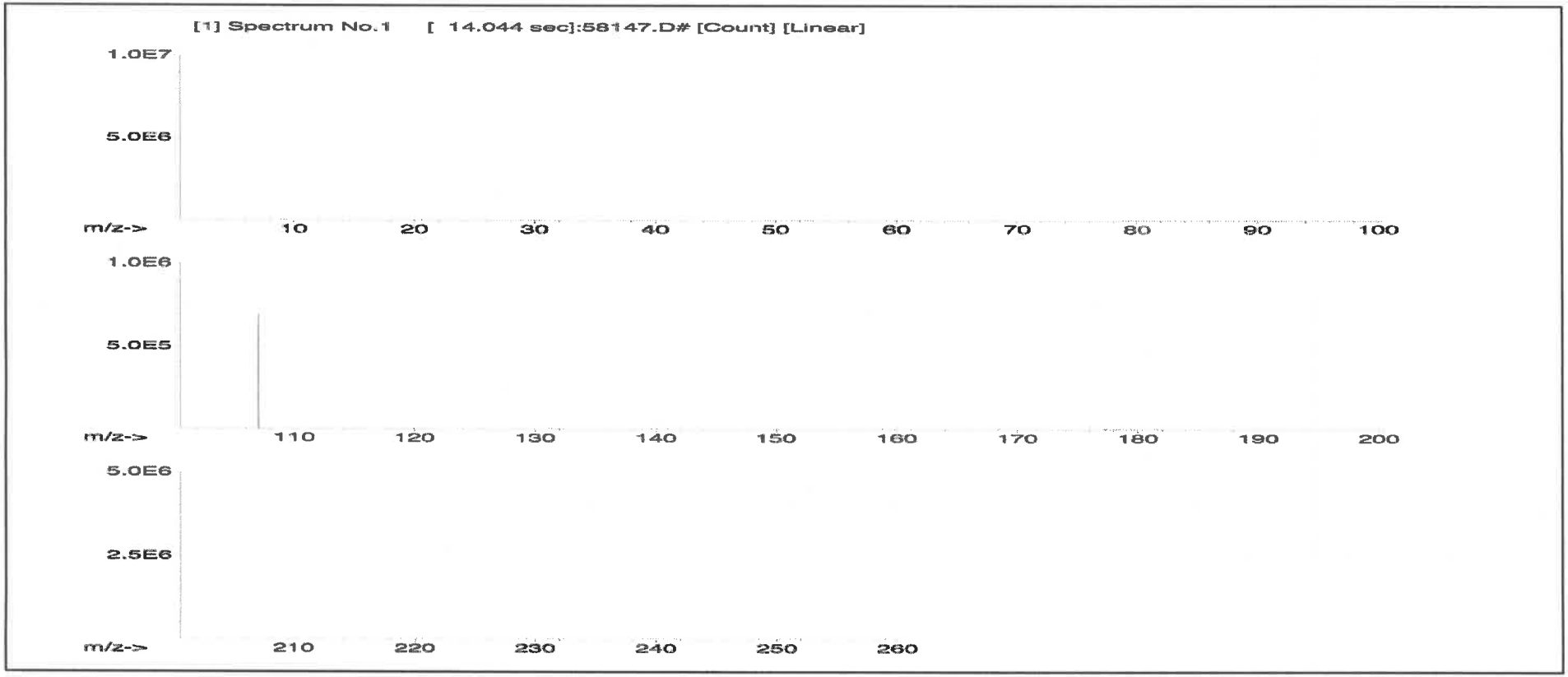
CERTIFIED WEIGHT REPORT:

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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R: 03/16/23 M5473, M5474, M5475, M5476

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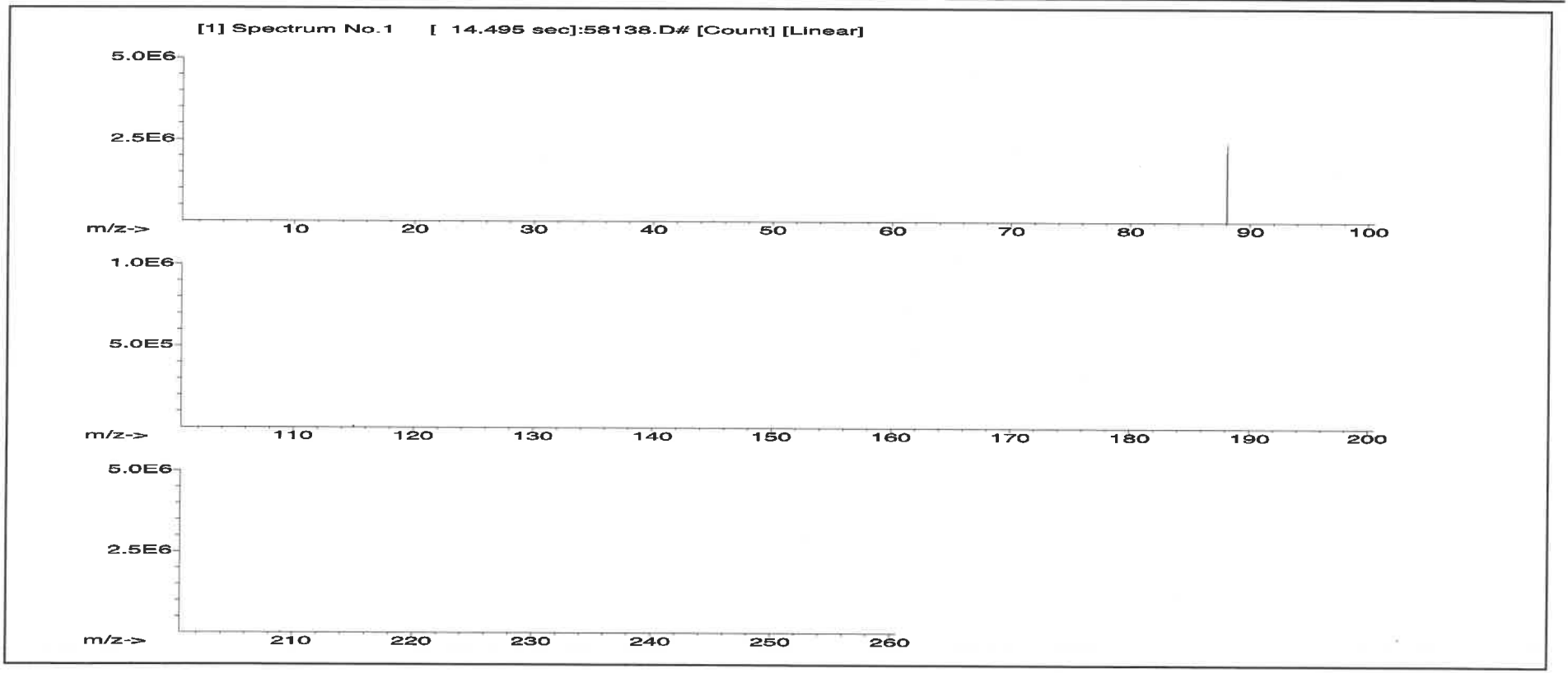
CERTIFIED WEIGHT REPORT:

Part Number:	**56138**		**Lot #**		
Lot Number:	**082922**	**Solvent:**	20510011	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	20.0 (mL)	Nitric Acid	
Expiration Date:	082925				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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:

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R: 03/16/23 M5473, M5474, M5475, M5476

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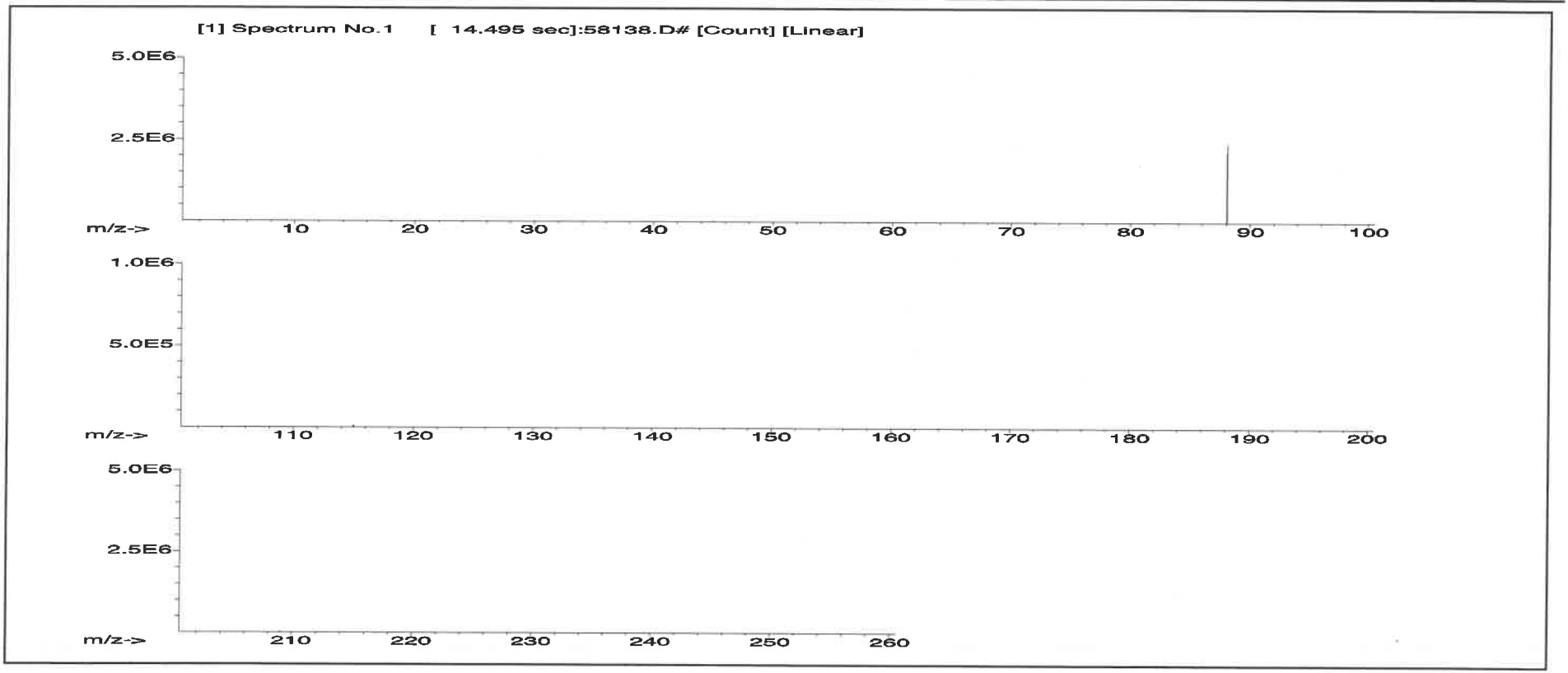
CERTIFIED WEIGHT REPORT:

Part Number:	**56138**		**Lot #**		
Lot Number:	**082922**	**Solvent:**	20510011	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	20.0 (mL)	Nitric Acid	
Expiration Date:	082925				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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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R ! 8/5/24

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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		

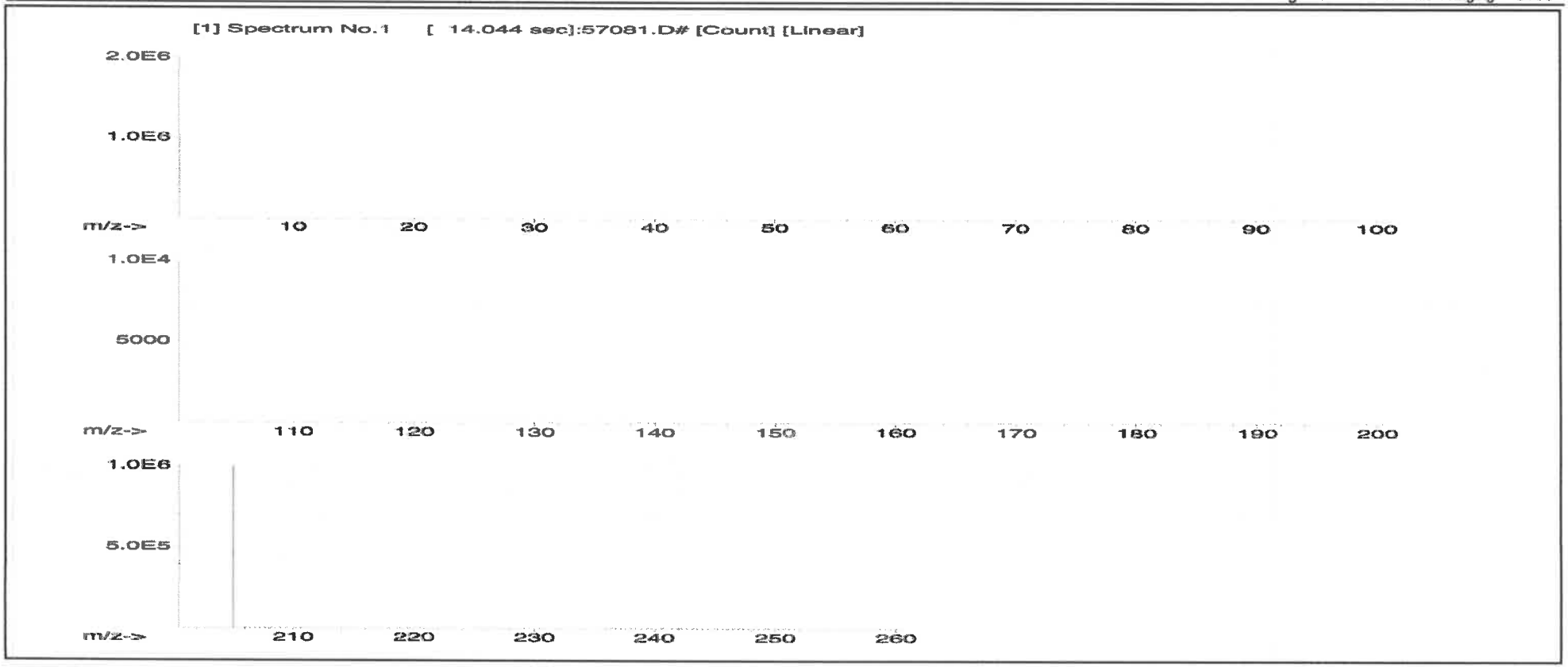
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



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
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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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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Rc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**			
Description:	**Vanadium (V)**	24002546	Nitric Acid	
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

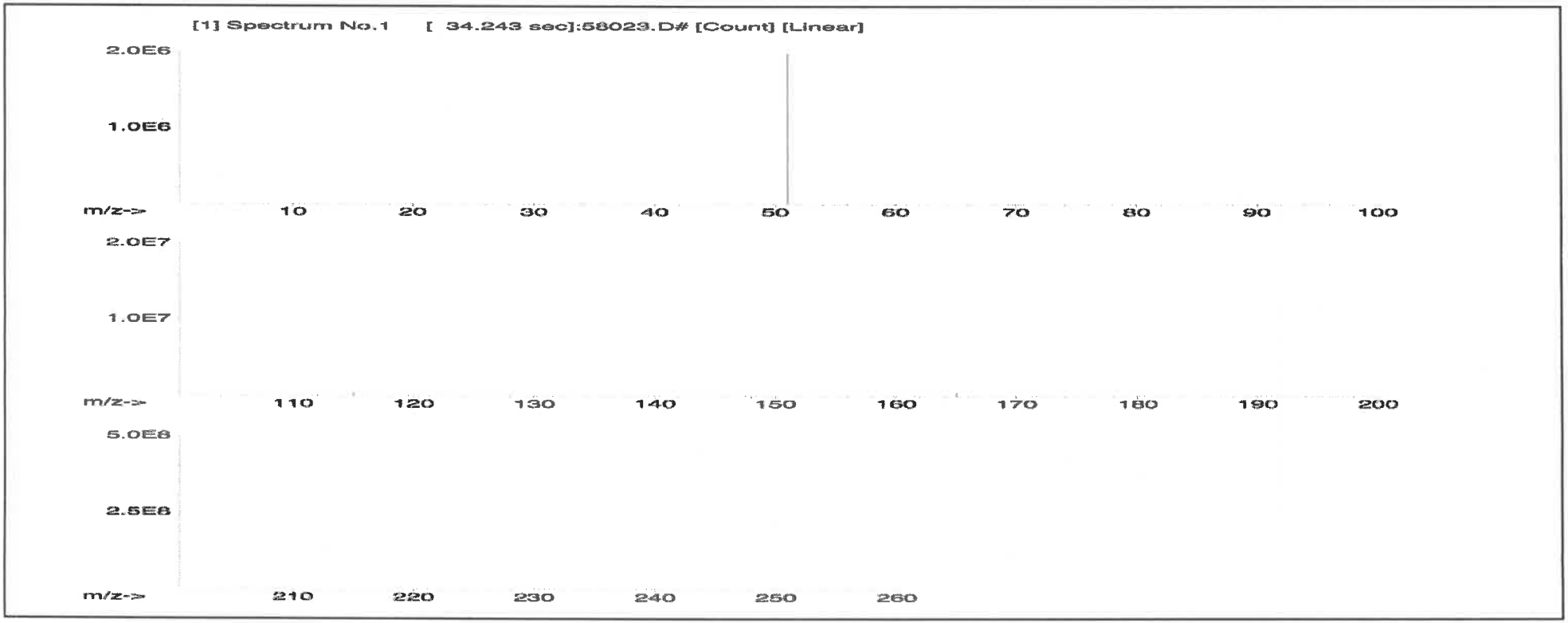
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165759

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : ME28Q6

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. HOT BLOCK #5 2. N/A

Start Digest Date: 12/19/2024 **Time :** 12:05 **Temp :** 96 °C

End Digest Date: 12/19/2024 **Time :** 14:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. # 5

Dig Technician Signature: SLD.

Supervisor Signature: MB

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP83506
Spike Sol 6	1.00	MP83512
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP83498
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #5 CELL #35 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/19/24 15:20	SLD. met digestion.	MB - Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB165759

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P5156-01	ME28Q6	N/A	1.27	100	Brown	Yellow	Medium	N/A	N/A	1
P5156-02	ME28Q7	N/A	1.21	100	Brown	Yellow	Medium	N/A	N/A	2
P5156-03	ME28Q8	N/A	1.26	100	Brown	Yellow	Medium	N/A	N/A	3
P5156-04	ME28Q9	N/A	1.23	100	Brown	Yellow	Medium	N/A	N/A	4
P5156-05	ME28R0	N/A	1.44	100	Brown	Yellow	Medium	N/A	N/A	5
P5156-06	ME28R1	N/A	1.26	100	Brown	Yellow	Medium	N/A	N/A	6
P5156-07	ME28R2	N/A	1.15	100	Brown	Yellow	Medium	N/A	N/A	7
P5156-08	ME28T4	N/A	1.23	100	Brown	Yellow	Medium	N/A	N/A	8
P5156-09	ME28T5	N/A	1.27	100	Brown	Yellow	Medium	N/A	N/A	9
P5156-10	ME28T6	N/A	1.47	100	Brown	Yellow	Medium	N/A	N/A	10
P5156-11	ME28T7	N/A	1.39	100	Brown	Yellow	Medium	N/A	N/A	11
P5156-12	ME28T8	N/A	1.15	100	Brown	Yellow	Medium	N/A	N/A	12
P5156-13	ME28T9	N/A	1.45	100	Brown	Yellow	Medium	N/A	N/A	13
P5156-14	ME28W0	N/A	1.25	100	Brown	Yellow	Medium	N/A	N/A	14
P5156-15	ME28W1	N/A	1.22	100	Brown	Yellow	Medium	N/A	N/A	15
P5156-16	ME28W2	N/A	1.43	100	Brown	Yellow	Medium	N/A	N/A	16
P5156-17	ME28W2D	N/A	1.21	100	Brown	Yellow	Medium	N/A	N/A	17
P5156-18	ME28W2S	N/A	1.21	100	Brown	Yellow	Medium	N/A	MP83512	18
P5156-19	ME28W3	N/A	1.40	100	Brown	Yellow	Medium	N/A	N/A	19
P5156-20	ME28W4	N/A	1.19	100	Brown	Yellow	Medium	N/A	N/A	20
P5156-21	ME28W5	N/A	1.19	100	Brown	Yellow	Medium	N/A	N/A	21
P5156-22	ME28W6	N/A	1.25	100	Brown	Yellow	Medium	N/A	N/A	22
PB165759BL	PBS759	N/A	1.00	100	Colorless	Colorless	Fine	N/A	N/A	23
PB165759BS	LCS759	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP83506	24

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

Review By	Kareem Khairalla	Review On	12/31/2024 7:49:56 PM
Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/29/24 01:11		Kareem	OK
2	S1	S01	CAL2	12/29/24 01:16		Kareem	OK
3	S2	S02	CAL3	12/29/24 01:20		Kareem	OK
4	S3	S03	CAL4	12/29/24 01:23		Kareem	OK
5	S4	S04	CAL5	12/29/24 01:27		Kareem	OK
6	S5	S05	CAL6	12/29/24 01:31		Kareem	OK
7	S6	S06	CAL7	12/29/24 01:35		Kareem	OK
8	ICV004	ICV004	ICV	12/29/24 01:54	Inst. paused for calibration review	Kareem	OK
9	ICB004	ICB004	ICB	12/29/24 01:58		Kareem	OK
10	ICSA004	ICSA004	ICSA	12/29/24 02:02		Kareem	OK
11	ICSAB004	ICSAB004	ICSAB	12/29/24 02:06		Kareem	OK
12	CCV033	CCV033	CCV	12/29/24 02:10		Kareem	OK
13	CCB033	CCB033	CCB	12/29/24 02:14		Kareem	OK
14	PB165360BL	PBS360	MB	12/29/24 02:18		Kareem	OK
15	PB165360BS	LCS360	LCS	12/29/24 02:22		Kareem	OK
16	PB165369BL	PBS369	MB	12/29/24 02:26		Kareem	OK
17	PB165369BS	LCS369	LCS	12/29/24 02:30		Kareem	OK
18	PB165395BL	PBS395	MB	12/29/24 02:34		Kareem	OK

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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

19	PB165395BS	LCS395	LCS	12/29/24 02:38		Kareem	OK
20	PB165396BL	PBS396	MB	12/29/24 02:42		Kareem	OK
21	PB165396BS	LCS396	LCS	12/29/24 02:46		Kareem	OK
22	PB165434BL	PBS434	MB	12/29/24 02:51		Kareem	OK
23	PB165434BS	LCS434	LCS	12/29/24 02:55		Kareem	OK
24	PB165465BL	PBS465	MB	12/29/24 02:59		Kareem	OK
25	PB165465BS	LCS465	LCS	12/29/24 03:03		Kareem	OK
26	PB165488BL	PBS488	MB	12/29/24 03:07		Kareem	OK
27	PB165488BS	LCS488	LCS	12/29/24 03:11		Kareem	OK
28	P5030-01	MBHK41	SAM	12/29/24 03:15		Kareem	OK
29	P5030-02	MBHK42	SAM	12/29/24 03:19		Kareem	OK
30	P5030-03	MBHK43	SAM	12/29/24 03:23		Kareem	OK
31	P5030-04	MBHK44	SAM	12/29/24 03:27		Kareem	OK
32	P5030-05	MBHK44D	DUP	12/29/24 03:31		Kareem	OK
33	P5030-04L	MBHK44L	SD	12/29/24 03:35		Kareem	OK
34	CCV034	CCV034	CCV	12/29/24 03:39		Kareem	OK
35	CCB034	CCB034	CCB	12/29/24 03:42		Kareem	OK
36	P5030-06	MBHK44S	MS	12/29/24 03:46	MS fail for As (267.34 ppb) & Ag,Tl (Below RL)	Kareem	OK
37	P5030-07	MBHK45	SAM	12/29/24 03:50		Kareem	OK

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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

38	P5030-08	MBHK46	SAM	12/29/24 03:54		Kareem	OK
39	P5030-09	MBHK47	SAM	12/29/24 03:58		Kareem	OK
40	P5030-10	MBHK48	SAM	12/29/24 04:02	Ca high	Kareem	Dilution
41	P5030-11	MBHK49	SAM	12/29/24 04:06	Ca,Mg high	Kareem	Dilution
42	P5030-12	MBHK50	SAM	12/29/24 04:10	Ca,Mg high	Kareem	Dilution
43	P5030-13	MBHKC4	SAM	12/29/24 04:14		Kareem	OK
44	P5030-14	MBHKC5	SAM	12/29/24 04:18		Kareem	OK
45	P5030-15	MBHKC6	SAM	12/29/24 04:22		Kareem	OK
46	P5030-16	MBHKC7	SAM	12/29/24 04:26		Kareem	OK
47	P5030-17	MBHKC8	SAM	12/29/24 04:30		Kareem	OK
48	P5030-18	MBHKC9	SAM	12/29/24 04:34		Kareem	OK
49	P5030-19	MBHKD0	SAM	12/29/24 04:38		Kareem	OK
50	P5030-20	MBHKD1	SAM	12/29/24 04:42		Kareem	OK
51	P5030-21	MBHKG4	SAM	12/29/24 04:45		Kareem	OK
52	P5030-22	MBHKG5	SAM	12/29/24 04:49		Kareem	OK
53	P5032-01	MBHK55	SAM	12/29/24 04:53		Kareem	OK
54	P5032-02	MBHK56	SAM	12/29/24 04:57		Kareem	OK
55	P5032-03	MBHK57	SAM	12/29/24 05:01		Kareem	OK
56	CCV035	CCV035	CCV	12/29/24 05:05		Kareem	OK
57	CCB035	CCB035	CCB	12/29/24 05:09		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

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ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

58	P5032-04	MBHK58	SAM	12/29/24 05:13		Kareem	OK
59	P5032-05	MBHK59	SAM	12/29/24 05:17	Ca high	Kareem	Dilution
60	P5032-06	MBHK60	SAM	12/29/24 05:20	Ca,Mn high	Kareem	Dilution
61	P5032-07	MBHK61	SAM	12/29/24 05:24	Ca high	Kareem	Dilution
62	P5032-08	MBHK62	SAM	12/29/24 05:28		Kareem	OK
63	P5032-09	MBHK63	SAM	12/29/24 05:32		Kareem	OK
64	P5032-10	MBHK64	SAM	12/29/24 05:36		Kareem	OK
65	P5032-11	MBHK65	SAM	12/29/24 05:40		Kareem	OK
66	P5032-12	MBHK66	SAM	12/29/24 05:44		Kareem	OK
67	P5032-13	MBHK67	SAM	12/29/24 05:48		Kareem	OK
68	P5032-14	MBHK68	SAM	12/29/24 05:51		Kareem	OK
69	P5032-15	MBHK69	SAM	12/29/24 05:55		Kareem	OK
70	P5032-16	MBHK70	SAM	12/29/24 05:59		Kareem	OK
71	P5032-17	MBHK71	SAM	12/29/24 06:03		Kareem	OK
72	P5032-18	MBHK72	SAM	12/29/24 06:07		Kareem	OK
73	P5032-19	MBHK72D	DUP	12/29/24 06:11		Kareem	OK
74	P5032-18L	MBHK72L	SD	12/29/24 06:15		Kareem	OK
75	P5032-20	MBHK72S	MS	12/29/24 06:19	MS fail for Cu (193.67 ppb), Se (95.29 ppb) & Ag,Tl (Below RL)	Kareem	OK
76	P5032-21	MBHK73	SAM	12/29/24 06:22		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

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ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

77	P5032-22	MBHK74	SAM	12/29/24 06:26		Kareem	OK
78	CCV036	CCV036	CCV	12/29/24 06:30		Kareem	OK
79	CCB036	CCB036	CCB	12/29/24 06:34		Kareem	OK
80	P5035-01	MBHKK8	SAM	12/29/24 06:38		Kareem	OK
81	P5035-02	MBHKK9	SAM	12/29/24 06:42		Kareem	OK
82	P5035-03	MBHKL0	SAM	12/29/24 06:46		Kareem	OK
83	P5035-04	MBHKL1	SAM	12/29/24 06:50		Kareem	OK
84	P5035-05	MBHKM6	SAM	12/29/24 06:53	Ca high	Kareem	Dilution
85	P5035-06	MBHKM7	SAM	12/29/24 06:57	Ca high	Kareem	Dilution
86	P5035-07	MBHKM8	SAM	12/29/24 07:01	Ca high	Kareem	Dilution
87	P5035-08	MBHKM9	SAM	12/29/24 07:05		Kareem	OK
88	P5035-09	MBHKM9D	DUP	12/29/24 07:09		Kareem	OK
89	P5035-08L	MBHKM9L	SD	12/29/24 07:13		Kareem	OK
90	P5035-10	MBHKM9S	MS	12/29/24 07:17	MS fail for Ag,Tl (Below RL)	Kareem	OK
91	P5035-11	MBHKN0	SAM	12/29/24 07:21		Kareem	OK
92	P5035-12	MBHKN1	SAM	12/29/24 07:24		Kareem	OK
93	P5035-13	MBHKN2	SAM	12/29/24 07:28		Kareem	OK
94	P5035-14	MBHKN3	SAM	12/29/24 07:32		Kareem	OK
95	P5035-15	MBHKN4	SAM	12/29/24 07:36		Kareem	OK
96	P5035-16	MBHKN5	SAM	12/29/24 07:40		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

Review By	Kareem Khairalla	Review On	12/31/2024 7:49:56 PM
Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

97	P5035-17	MBHKN6	SAM	12/29/24 07:44		Kareem	OK
98	P5035-18	MBHKN7	SAM	12/29/24 07:48		Kareem	OK
99	P5035-19	MBHKN8	SAM	12/29/24 07:51		Kareem	OK
100	CCV037	CCV037	CCV	12/29/24 07:55		Kareem	OK
101	CCB037	CCB037	CCB	12/29/24 07:59		Kareem	OK
102	P5035-20	MBHKN9	SAM	12/29/24 08:03	Ca high	Kareem	Dilution
103	P5035-21	MBHKQ0	SAM	12/29/24 08:07		Kareem	OK
104	P5035-22	MBHKQ1	SAM	12/29/24 08:11		Kareem	OK
105	P5036-01	MBHK33	SAM	12/29/24 08:15		Kareem	OK
106	P5036-02	MBHKF3	SAM	12/29/24 08:19		Kareem	OK
107	P5036-03	MBHKF4	SAM	12/29/24 08:22		Kareem	OK
108	P5036-04	MBHKF5	SAM	12/29/24 08:26		Kareem	OK
109	P5036-05	MBHKF6	SAM	12/29/24 08:30		Kareem	OK
110	P5036-06	MBHKF7	SAM	12/29/24 08:34		Kareem	OK
111	P5036-07	MBHKF8	SAM	12/29/24 08:38		Kareem	OK
112	P5036-08	MBHKF8D	DUP	12/29/24 08:42		Kareem	OK
113	P5036-07L	MBHKF8L	SD	12/29/24 08:46		Kareem	OK
114	P5036-09	MBHKF8S	MS	12/29/24 08:50	MS fail for Pb (115.58 ppb) & Ag,Tl (Below RL)	Kareem	OK
115	P5036-10	MBHKF9	SAM	12/29/24 08:54		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

Review By	Kareem Khairalla	Review On	12/31/2024 7:49:56 PM
Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

116	P5036-11	MBHKG0	SAM	12/29/24 08:57		Kareem	OK
117	P5036-12	MBHKG1	SAM	12/29/24 09:01		Kareem	OK
118	P5036-13	MBHKD5	SAM	12/29/24 09:05		Kareem	OK
119	P5036-14	MBHKD7	SAM	12/29/24 09:09		Kareem	OK
120	P5036-15	MBHKD8	SAM	12/29/24 09:13		Kareem	OK
121	P5036-16	MBHKD9	SAM	12/29/24 09:17		Kareem	OK
122	CCV038	CCV038	CCV	12/29/24 09:21		Kareem	OK
123	CCB038	CCB038	CCB	12/29/24 09:24		Kareem	OK
124	P5036-17	MBHKE0	SAM	12/29/24 09:29		Kareem	OK
125	P5036-18	MBHKE1	SAM	12/29/24 09:32		Kareem	OK
126	P5036-19	MBHKE2	SAM	12/29/24 09:36		Kareem	OK
127	P5036-20	MBHKE3	SAM	12/29/24 09:40		Kareem	OK
128	P5036-21	MBHKE4	SAM	12/29/24 09:44		Kareem	OK
129	P5036-22	MBHK51	SAM	12/29/24 09:48		Kareem	OK
130	P5038-01	MBHK83	SAM	12/29/24 09:52		Kareem	OK
131	P5038-02	MBHK84	SAM	12/29/24 09:56		Kareem	OK
132	P5038-03	MBHK84D	DUP	12/29/24 09:59		Kareem	OK
133	P5038-02L	MBHK84L	SD	12/29/24 10:03		Kareem	OK
134	P5038-04	MBHK84S	MS	12/29/24 10:07	MS fail for Ag,Tl (Below RL)	Kareem	OK
135	P5038-05	MBHK85	SAM	12/29/24 10:11		Kareem	OK

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

136	P5038-06	MBHK86	SAM	12/29/24 10:15		Kareem	OK
137	P5038-07	MBHK87	SAM	12/29/24 10:19		Kareem	OK
138	P5038-08	MBHK88	SAM	12/29/24 10:23	Ca high	Kareem	Dilution
139	P5038-09	MBHK89	SAM	12/29/24 10:27		Kareem	OK
140	P5038-10	MBHK90	SAM	12/29/24 10:30		Kareem	OK
141	P5038-11	MBHK91	SAM	12/29/24 10:34		Kareem	OK
142	P5038-12	MBHK92	SAM	12/29/24 10:38		Kareem	OK
143	P5038-13	MBHKA4	SAM	12/29/24 10:42		Kareem	OK
144	CCV039	CCV039	CCV	12/29/24 10:46		Kareem	OK
145	CCB039	CCB039	CCB	12/29/24 10:50		Kareem	OK
146	P5038-14	MBHKA5	SAM	12/29/24 10:54		Kareem	OK
147	P5038-15	MBHKA6	SAM	12/29/24 10:58	Ca,Mg high	Kareem	Dilution
148	P5038-16	MBHKA7	SAM	12/29/24 11:02	Ca high	Kareem	Dilution
149	P5038-17	MBHKA8	SAM	12/29/24 11:05	Ca,Mg high	Kareem	Dilution
150	P5038-18	MBHKA9	SAM	12/29/24 11:09	Ca high	Kareem	Dilution
151	P5038-19	MBHKB1	SAM	12/29/24 11:13		Kareem	OK
152	P5038-20	MBHKB2	SAM	12/29/24 11:17		Kareem	OK
153	P5038-21	MBHKB3	SAM	12/29/24 11:21		Kareem	OK
154	P5054-01	MBHKR0	SAM	12/29/24 11:25		Kareem	OK
155	P5054-02	MBHKR1	SAM	12/29/24 11:29		Kareem	OK

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

156	P5054-03	MBHKR2	SAM	12/29/24 11:33		Kareem	OK
157	P5054-04	MBHKR2D	DUP	12/29/24 11:36		Kareem	OK
158	P5054-03L	MBHKR2L	SD	12/29/24 11:40		Kareem	OK
159	P5054-05	MBHKR2S	MS	12/29/24 11:44	MS fail for Cu (373.96 ppb), Zn (1590.07 ppb) & Ag,Tl (Below RL)	Kareem	OK
160	P5054-06	MBHKR3	SAM	12/29/24 11:48		Kareem	OK
161	P5054-07	MBHKR4	SAM	12/29/24 11:52		Kareem	OK
162	P5054-08	MBHKR5	SAM	12/29/24 11:56		Kareem	OK
163	P5054-09	MBHKR6	SAM	12/29/24 12:00		Kareem	OK
164	P5054-10	MBHKR7	SAM	12/29/24 12:04		Kareem	OK
165	P5054-11	MBHKR9	SAM	12/29/24 12:07		Kareem	OK
166	CCV040	CCV040	CCV	12/29/24 12:20		Kareem	OK
167	CCB040	CCB040	CCB	12/29/24 12:24		Kareem	OK
168	P5054-12	MBHKS0	SAM	12/29/24 12:28		Kareem	OK
169	P5054-13	MBHKS1	SAM	12/29/24 12:32		Kareem	OK
170	P5054-14	MBHKS2	SAM	12/29/24 12:36		Kareem	OK
171	P5054-15	MBHKS3	SAM	12/29/24 12:39		Kareem	OK
172	P5054-16	MBHKT8	SAM	12/29/24 12:43		Kareem	OK
173	P5054-17	MBHKT9	SAM	12/29/24 12:47		Kareem	OK
174	P5054-18	MBHKW0	SAM	12/29/24 12:51		Kareem	OK

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ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

175	P5054-19	MBHKW1	SAM	12/29/24 12:55		Kareem	OK
176	P5054-20	MBHKW2	SAM	12/29/24 12:58	Ca high	Kareem	Dilution
177	P5054-21	MBHKW3	SAM	12/29/24 13:02	Ca high	Kareem	Dilution
178	P5056-01	MBHKX9	SAM	12/29/24 13:06		Kareem	OK
179	P5056-02	MBHKY0	SAM	12/29/24 13:10		Kareem	OK
180	P5056-03	MBHKY1	SAM	12/29/24 13:14		Kareem	OK
181	P5056-04	MBHKY2	SAM	12/29/24 13:18		Kareem	OK
182	P5056-05	MBHKY3	SAM	12/29/24 13:22		Kareem	OK
183	P5056-06	MBHKY4	SAM	12/29/24 13:26		Kareem	OK
184	P5056-07	MBHKY5	SAM	12/29/24 13:29	Ca high	Kareem	Dilution
185	P5056-08	MBHL35	SAM	12/29/24 13:33		Kareem	OK
186	P5056-09	MBHL36	SAM	12/29/24 13:37		Kareem	OK
187	P5056-10	MBHL37	SAM	12/29/24 13:41		Kareem	OK
188	CCV041	CCV041	CCV	12/29/24 13:45		Kareem	OK
189	CCB041	CCB041	CCB	12/29/24 13:49		Kareem	OK
190	P5056-11	MBHL38	SAM	12/29/24 13:53		Kareem	OK
191	P5056-12	MBHL39	SAM	12/29/24 13:57	Ca high	Kareem	Dilution
192	P5056-13	MBHL40	SAM	12/29/24 14:01	Ca high	Kareem	Dilution
193	P5056-14	MBHL41	SAM	12/29/24 14:05	Ca high	Kareem	Dilution
194	P5056-15	MBHL42	SAM	12/29/24 14:08		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

195	P5056-16	MBHL43	SAM	12/29/24 14:12		Kareem	OK
196	P5056-17	MBHL44	SAM	12/29/24 14:16		Kareem	OK
197	P5056-18	MBHL45	SAM	12/29/24 14:20		Kareem	OK
198	P5056-19	MBHL46	SAM	12/29/24 14:24		Kareem	OK
199	P5056-20	MBHL47	SAM	12/29/24 14:28	DUP fail for many parameter	Kareem	Not Ok
200	P5056-21	MBHL47D	DUP	12/29/24 14:31	DUP fail for many parameter	Kareem	Not Ok
201	P5056-20L	MBHL47L	SD	12/29/24 14:35	DUP fail for many parameter	Kareem	Not Ok
202	P5056-22	MBHL47S	MS	12/29/24 14:39	DUP fail for many parameter	Kareem	Not Ok
203	P5090-12A	MBHM25A	PS	12/29/24 14:43	PS for As,Ba,Cu,Se,Tl,Zn	Kareem	OK
204	P5063-07A	MBHL34A	PS	12/29/24 14:47	PS for Cu,Se,Zn	Kareem	OK
205	P5084-13A	MBHLX7A	PS	12/29/24 14:51	PS for Se,Tl	Kareem	OK
206	P5091-07A	MBHLS0A	PS	12/29/24 14:55	PS for Se,Tl	Kareem	OK
207	P5086-07A	MBHLN2A	PS	12/29/24 14:58	PS for Be,Cu,Se,Tl,Zn	Kareem	OK
208	P5089-01A	MBHLZ4A	PS	12/29/24 15:02	PS for As,Cu,Se,Tl,Zn	Kareem	OK
209	P5083-03A	MBHLK0A	PS	12/29/24 15:06	PS for Se,Tl,Zn	Kareem	OK
210	CCV042	CCV042	CCV	12/29/24 15:10		Kareem	OK
211	CCB042	CCB042	CCB	12/29/24 15:13		Kareem	OK
212	PB165759BL	PBS759	MB	12/29/24 15:18		Kareem	OK
213	PB165759BS	LCS759	LCS	12/29/24 15:22		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

Review By	Kareem Khairalla	Review On	12/31/2024 7:49:56 PM
Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

214	PB165820BL	PBS820	MB	12/29/24 15:26		Kareem	OK
215	PB165820BS	LCS820	LCS	12/29/24 15:30		Kareem	OK
216	P5156-01	ME28Q6	SAM	12/29/24 15:34		Kareem	OK
217	P5156-02	ME28Q7	SAM	12/29/24 15:37	Ca high	Kareem	Dilution
218	P5156-03	ME28Q8	SAM	12/29/24 15:41	Ca high	Kareem	Dilution
219	P5156-04	ME28Q9	SAM	12/29/24 15:45		Kareem	OK
220	P5156-05	ME28R0	SAM	12/29/24 15:49		Kareem	OK
221	P5156-06	ME28R1	SAM	12/29/24 15:53		Kareem	OK
222	P5156-07	ME28R2	SAM	12/29/24 15:57		Kareem	OK
223	P5156-08	ME28T4	SAM	12/29/24 16:00	Ca high	Kareem	Dilution
224	P5156-09	ME28T5	SAM	12/29/24 16:04		Kareem	OK
225	P5156-10	ME28T6	SAM	12/29/24 16:08	Ca high	Kareem	Dilution
226	P5156-11	ME28T7	SAM	12/29/24 16:12	Ca high	Kareem	Dilution
227	P5156-12	ME28T8	SAM	12/29/24 16:16	Ca high	Kareem	Dilution
228	P5156-13	ME28T9	SAM	12/29/24 16:19	Ca,Fe high	Kareem	Dilution
229	P5156-14	ME28W0	SAM	12/29/24 16:23	Fe high	Kareem	Dilution
230	P5156-15	ME28W1	SAM	12/29/24 16:27	Fe high	Kareem	Dilution
231	P5156-16	ME28W2	SAM	12/29/24 16:31	Fe high	Kareem	Dilution
232	CCV043	CCV043	CCV	12/29/24 16:34		Kareem	OK
233	CCB043	CCB043	CCB	12/29/24 16:38		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

234	P5156-17	ME28W2D	DUP	12/29/24 16:42	Fe high	Kareem	Dilution
235	P5156-16L	ME28W2L	SD	12/29/24 16:46	Fe high	Kareem	Dilution
236	P5156-18	ME28W2S	MS	12/29/24 16:50	Fe high	Kareem	Dilution
237	P5156-19	ME28W3	SAM	12/29/24 16:54		Kareem	OK
238	P5156-20	ME28W4	SAM	12/29/24 16:57		Kareem	OK
239	P5156-21	ME28W5	SAM	12/29/24 17:01	Fe high	Kareem	Dilution
240	P5156-22	ME28W6	SAM	12/29/24 17:05	Fe high	Kareem	Dilution
241	P5259-01	ME28W7	SAM	12/29/24 17:09		Kareem	OK
242	P5259-02	ME28W8	SAM	12/29/24 17:13		Kareem	OK
243	P5259-03	ME28W9	SAM	12/29/24 17:16		Kareem	OK
244	P5259-04	ME28X0	SAM	12/29/24 17:20		Kareem	OK
245	P5259-05	ME28X0D	DUP	12/29/24 17:24		Kareem	OK
246	P5259-04L	ME28X0L	SD	12/29/24 17:28		Kareem	OK
247	P5259-06	ME28X0S	MS	12/29/24 17:32		Kareem	OK
248	P5259-07	ME28X1	SAM	12/29/24 17:35		Kareem	OK
249	P5259-08	ME28X2	SAM	12/29/24 17:39		Kareem	OK
250	P5259-09	ME28X3	SAM	12/29/24 17:43		Kareem	OK
251	P5259-10	ME28X4	SAM	12/29/24 17:47		Kareem	OK
252	P5259-11	ME28X5	SAM	12/29/24 17:51		Kareem	OK
253	P5259-12	ME28X6	SAM	12/29/24 17:54	Ca high	Kareem	Dilution

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Instrument ID: P5

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

254	CCV044	CCV044	CCV	12/29/24 17:58		Kareem	OK
255	CCB044	CCB044	CCB	12/29/24 18:02		Kareem	OK
256	P5259-13	ME28X7	SAM	12/29/24 18:06		Kareem	OK
257	P5259-14	ME28X8	SAM	12/29/24 18:10	Ca high	Kareem	Dilution
258	P5259-15	ME28X9	SAM	12/29/24 18:14		Kareem	OK
259	P5259-16	ME28Y0	SAM	12/29/24 18:18		Kareem	OK
260	P5259-17	ME28Y1	SAM	12/29/24 18:21		Kareem	OK
261	P5259-18	ME28Y2	SAM	12/29/24 18:25		Kareem	OK
262	P5259-19	ME28Y3	SAM	12/29/24 18:29		Kareem	OK
263	P5259-20	ME28Y4	SAM	12/29/24 18:33	Ca high	Kareem	Dilution
264	P5259-21	ME28Y5	SAM	12/29/24 18:37	Ca high	Kareem	Dilution
265	PB165851BL	PBS851	MB	12/29/24 18:40		Kareem	OK
266	PB165851BS	LCS851	LCS	12/29/24 18:44		Kareem	OK
267	P5125-01	MBHM90	SAM	12/29/24 18:48		Kareem	OK
268	P5125-02	MBHM91	SAM	12/29/24 18:52		Kareem	OK
269	P5125-03	MBHM92	SAM	12/29/24 18:56		Kareem	OK
270	P5125-04	MBHM93	SAM	12/29/24 19:00		Kareem	OK
271	P5125-05	MBHM94	SAM	12/29/24 19:04		Kareem	OK
272	P5125-06	MBHM94D	DUP	12/29/24 19:07		Kareem	OK
273	P5125-05L	MBHM94L	SD	12/29/24 19:11		Kareem	OK

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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

274	P5125-07	MBHM94S	MS	12/29/24 19:15	MS fail for Cu (596.26 ppb), Se (105.64 ppb), Zn (3225.59 ppb) & Ag,Tl (Below RL)	Kareem	OK
275	P5125-08	MBHM95	SAM	12/29/24 19:19		Kareem	OK
276	CCV045	CCV045	CCV	12/29/24 19:23		Kareem	OK
277	CCB045	CCB045	CCB	12/29/24 19:27		Kareem	OK
278	P5125-09	MBHM96	SAM	12/29/24 19:31		Kareem	OK
279	P5125-10	MBHM97	SAM	12/29/24 19:34		Kareem	OK
280	P5125-11	MBHMB2	SAM	12/29/24 19:38		Kareem	OK
281	P5125-12	MBHMB3	SAM	12/29/24 19:42		Kareem	OK
282	P5125-13	MBHMB4	SAM	12/29/24 19:46		Kareem	OK
283	P5125-14	MBHMB5	SAM	12/29/24 19:50		Kareem	OK
284	P5125-15	MBHMB6	SAM	12/29/24 19:54		Kareem	OK
285	P5125-16	MBHMB7	SAM	12/29/24 19:57		Kareem	OK
286	P5125-17	MBHMB8	SAM	12/29/24 20:01		Kareem	OK
287	P5125-18	MBHMD5	SAM	12/29/24 20:05		Kareem	OK
288	P5125-19	MBHMD6	SAM	12/29/24 20:09		Kareem	OK
289	PB165881BL	PBS881	MB	12/29/24 20:13		Kareem	OK
290	PB165881BS	LCS881	LCS	12/29/24 20:17		Kareem	OK
291	P5130-01	MBHMF4	SAM	12/29/24 20:21		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

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Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
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CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

292	P5130-02	MBHMF5	SAM	12/29/24 20:24		Kareem	OK
293	P5130-03	MBHMF6	SAM	12/29/24 20:28		Kareem	OK
294	P5130-04	MBHMF7	SAM	12/29/24 20:32		Kareem	OK
295	P5130-05	MBHMF8	SAM	12/29/24 20:36		Kareem	OK
296	P5130-06	MBHMF9	SAM	12/29/24 20:40		Kareem	OK
297	P5130-07	MBHMG3	SAM	12/29/24 20:44		Kareem	OK
298	CCV046	CCV046	CCV	12/29/24 20:47		Kareem	OK
299	CCB046	CCB046	CCB	12/29/24 20:51		Kareem	OK
300	P5130-08	MBHMG4	SAM	12/29/24 20:55		Kareem	OK
301	P5130-09	MBHMG5	SAM	12/29/24 20:59		Kareem	OK
302	P5130-10	MBHMG6	SAM	12/29/24 21:03		Kareem	OK
303	P5130-11	MBHMG7	SAM	12/29/24 21:07		Kareem	OK
304	P5130-12	MBHMH2	SAM	12/29/24 21:11		Kareem	OK
305	P5130-13	MBHMH3	SAM	12/29/24 21:14		Kareem	OK
306	P5130-14	MBHMH4	SAM	12/29/24 21:18		Kareem	OK
307	P5130-15	MBHMH5	SAM	12/29/24 21:22	MS,SD fail for many parameter	Kareem	Not Ok
308	P5130-16	MBHMH5D	DUP	12/29/24 21:26	MS,SD fail for many parameter	Kareem	Not Ok
309	P5130-15L	MBHMH5L	SD	12/29/24 21:30	MS,SD fail for many parameter	Kareem	Not Ok
310	P5130-17	MBHMH5S	MS	12/29/24 21:34	MS,SD fail for many parameter	Kareem	Not Ok

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134116

Review By	Kareem Khairalla	Review On	12/31/2024 7:49:56 PM
Supervise By	Mohan Bera	Supervise On	12/31/2024 11:25:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	MP83506
Chk Standard	MP83513,MP83514

311	P5130-18	MBHML5	SAM	12/29/24 21:37		Kareem	OK
312	P5130-19	MBHML6	SAM	12/29/24 21:41		Kareem	OK
313	P5130-20	MBHML7	SAM	12/29/24 21:45		Kareem	OK
314	P5130-21	MBHML8	SAM	12/29/24 21:49		Kareem	OK
315	P5130-22	MBHML9	SAM	12/29/24 21:53		Kareem	OK
316	CCV047	CCV047	CCV	12/29/24 21:56		Kareem	OK
317	CCB047	CCB047	CCB	12/29/24 22:00		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134132

Review By	Sarabjit Jaswal	Review On	1/2/2025 2:17:00 AM
Supervise By	Mohan Bera	Supervise On	1/2/2025 2:18:34 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5751,MP83836,MP83726
LCS Standard	
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/30/24 18:31		Kareem	OK
2	S1	S01	CAL2	12/30/24 18:36		Kareem	OK
3	S2	S02	CAL3	12/30/24 18:40		Kareem	OK
4	S3	S03	CAL4	12/30/24 18:44		Kareem	OK
5	S4	S04	CAL5	12/30/24 18:47		Kareem	OK
6	S5	S05	CAL6	12/30/24 18:51		Kareem	OK
7	S6	S06	CAL7	12/30/24 18:55		Kareem	OK
8	ICV005	ICV005	ICV	12/30/24 19:07	Inst. paused for calibration review	Kareem	OK
9	ICB005	ICB005	ICB	12/30/24 19:11		Kareem	OK
10	ICSA005	ICSA005	ICSA	12/30/24 19:15		Kareem	OK
11	ICSAB005	ICSAB005	ICSAB	12/30/24 19:50	Inst. paused for review	Kareem	OK
12	CCV049	CCV049	CCV	12/30/24 19:54		Kareem	OK
13	CCB049	CCB049	CCB	12/30/24 19:58		Kareem	OK
14	P5027-07DL	MBHK19	SAM	12/30/24 20:02	2x for Ca	Kareem	Confirms
15	P5027-13DL	MBHK23	SAM	12/30/24 20:06	2x for Ca	Kareem	Confirms
16	P5027-14DL	MBHK24	SAM	12/30/24 20:10	2x for Ca	Kareem	Confirms
17	P5027-15DL	MBHK25	SAM	12/30/24 20:14	2x for Ca	Kareem	Confirms
18	P5027-17DL	MBHK27	SAM	12/30/24 20:17	2x for Ca, Still Ca high	Kareem	Dilution

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134132

Review By	Sarabjit Jaswal	Review On	1/2/2025 2:17:00 AM
Supervise By	Mohan Bera	Supervise On	1/2/2025 2:18:34 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5751,MP83836,MP83726
LCS Standard	
Chk Standard	MP83513,MP83514

19	P5030-10DL	MBHK48	SAM	12/30/24 20:21	2x for Ca	Kareem	Confirms
20	P5030-11DL	MBHK49	SAM	12/30/24 20:25	2x for Ca,Mg, Still Ca high	Kareem	Dilution
21	P5030-12DL	MBHK50	SAM	12/30/24 20:29	2x for Ca,Mg, Still Ca high	Kareem	Dilution
22	P5032-05DL	MBHK59	SAM	12/30/24 20:33	2x for Ca	Kareem	Confirms
23	P5032-06DL	MBHK60	SAM	12/30/24 20:37	2x for Ca,Mn	Kareem	Confirms
24	P5032-07DL	MBHK61	SAM	12/30/24 20:41	2x for Ca	Kareem	Confirms
25	P5038-08DL	MBHK88	SAM	12/30/24 20:45	Not Use	Kareem	Not Ok
26	P5038-15DL	MBHKA6	SAM	12/30/24 20:49	2x for Ca,Mg, Still Ca high	Kareem	Dilution
27	P5038-16DL	MBHKA7	SAM	12/30/24 20:52	2x for Ca	Kareem	Confirms
28	P5038-17DL	MBHKA8	SAM	12/30/24 20:56	2x for Ca,Mg, Still Ca high	Kareem	Dilution
29	P5038-18DL	MBHKA9	SAM	12/30/24 21:00	2x for Ca	Kareem	Confirms
30	P5266-18DL	ME2903	SAM	12/30/24 21:04	2x for Fe	Kareem	Confirms
31	P5259-12DL	ME28X6	SAM	12/30/24 21:08	2x for Ca	Kareem	Confirms
32	P5259-14DL	ME28X8	SAM	12/30/24 21:12	2x for Ca	Kareem	Confirms
33	P5259-20DL	ME28Y4	SAM	12/30/24 21:16	2x for Ca	Kareem	Confirms
34	CCV050	CCV050	CCV	12/30/24 21:20		Kareem	OK
35	CCB050	CCB050	CCB	12/30/24 21:23		Kareem	OK
36	P5259-21DL	ME28Y5	SAM	12/30/24 21:27	2x for Ca	Kareem	Confirms
37	P5156-02DL	ME28Q7	SAM	12/30/24 21:31	2x for Ca	Kareem	Confirms
38	P5156-03DL	ME28Q8	SAM	12/30/24 21:35	2x for Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134132

Review By	Sarabjit Jaswal	Review On	1/2/2025 2:17:00 AM
Supervise By	Mohan Bera	Supervise On	1/2/2025 2:18:34 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5751,MP83836,MP83726
LCS Standard	
Chk Standard	MP83513,MP83514

39	P5156-08DL	ME28T4	SAM	12/30/24 21:39	2x for Ca	Kareem	Confirms
40	P5156-10DL	ME28T6	SAM	12/30/24 21:43	2x for Ca	Kareem	Confirms
41	P5156-11DL	ME28T7	SAM	12/30/24 21:47	2x for Ca	Kareem	Confirms
42	P5156-12DL	ME28T8	SAM	12/30/24 21:50	2x for Ca	Kareem	Confirms
43	P5156-13DL	ME28T9	SAM	12/30/24 21:54	2x for Ca,Fe	Kareem	Confirms
44	P5156-14DL	ME28W0	SAM	12/30/24 21:58	2x for Fe	Kareem	Confirms
45	P5156-15DL	ME28W1	SAM	12/30/24 22:02	2x for Fe	Kareem	Confirms
46	P5156-16DL	ME28W2	SAM	12/30/24 22:06	2x for Fe	Kareem	Confirms
47	P5156-17DL	ME28W2D	DUP	12/30/24 22:09	2x for Fe	Kareem	Confirms
48	P5156-16LDL	ME28W2L	SD	12/30/24 22:13	10x for Fe	Kareem	Confirms
49	P5156-18DL	ME28W2S	MS	12/30/24 22:17	2x for Fe	Kareem	Confirms
50	P5156-21DL	ME28W5	SAM	12/30/24 22:21	Not Use	Kareem	Not Ok
51	P5156-22DL	ME28W6	SAM	12/30/24 22:25	2x for Fe	Kareem	Confirms
52	PB165326BL	PBS326	MB	12/30/24 22:28	Not Use	Kareem	Not Ok
53	PB165326BS	LCS326	LCS	12/30/24 22:32	Not Use	Kareem	Not Ok
54	P5027-10A	MBHK22A	PS	12/30/24 22:36	PS for Se,Tl,Zn	Kareem	OK
55	P5030-04A	MBHK44A	PS	12/30/24 22:40	PS For As,Tl-(As-0.0054ml m5801,Tl-0.05 ml mp83836-10 ml Sample)-10ml Sample	Kareem	OK
56	CCV051	CCV051	CCV	12/30/24 22:44		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134132

Review By	Sarabjit Jaswal	Review On	1/2/2025 2:17:00 AM
Supervise By	Mohan Bera	Supervise On	1/2/2025 2:18:34 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5751,MP83836,MP83726
LCS Standard	
Chk Standard	MP83513,MP83514

57	CCB051	CCB051	CCB	12/30/24 22:48		Kareem	OK
58	P5032-18A	MBHK72A	PS	12/30/24 22:52	PS For Cu,Se,Tl - (0.0038ml m5751,0.019ml mp83726,0.05 ml mp83836 - 10ml Sample)	Kareem	OK
59	P5036-07A	MBHKF8A	PS	12/30/24 22:56	PS For Pb,Tl-(0.0023ml m6025,0.05ml mp83836-10 ml Sample)	Kareem	OK
60	P5038-02A	MBHK84A	PS	12/30/24 22:59	PS For Tl-0.05ml mp83836 - 10ml Sample	Kareem	OK
61	P5169-04	MJNLH4	SAM	12/30/24 23:03		Kareem	OK
62	P5169-05	MJNLH4D	DUP	12/30/24 23:07		Kareem	OK
63	P5169-04L	MJNLH4L	SD	12/30/24 23:11		Kareem	OK
64	P5169-06	MJNLH4S	MS	12/30/24 23:15	MS fail for Ba (714.33 ppb) & Ag,Se,Cd,Cr (Below RL)	Kareem	OK
65	PB165673BL	PBW673	MB	12/30/24 23:23		Kareem	OK
66	PB165673BS	LCS673	LCS	12/30/24 23:27		Kareem	OK
67	P5035-05DL	MBHKM6	SAM	12/30/24 23:31	Not Use	Kareem	Not Ok
68	P5035-06DL	MBHKM7	SAM	12/30/24 23:35	2X For Ca	Kareem	Confirms
69	P5035-07DL	MBHKM8	SAM	12/30/24 23:39	2X For Ca	Kareem	Confirms
70	P5035-20DL	MBHKN9	SAM	12/30/24 23:43	Not Use	Kareem	Not Ok
71	P5035-08A	MBHKM9A	PS	12/30/24 23:47	PS For Tl - 0.05ml mp83836-10ml Sample	Kareem	OK
72	P5266-19	ME28Y9D	DUP	12/30/24 23:51	NOT USE	Kareem	Not Ok
73	CCV052	CCV052	CCV	12/30/24 23:54		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134132

Review By	Sarabjit Jaswal	Review On	1/2/2025 2:17:00 AM
Supervise By	Mohan Bera	Supervise On	1/2/2025 2:18:34 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	M5751,MP83836,MP83726
LCS Standard	
Chk Standard	MP83513,MP83514

74	CCB052	CCB052	CCB	12/30/24 23:58		Kareem	OK

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134139

Review By	Sarabjit Jaswal	Review On	1/2/2025 2:17:07 AM
Supervise By	Mohan Bera	Supervise On	1/2/2025 2:18:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/31/24 12:16		Kareem	OK
2	S1	S01	CAL2	12/31/24 12:20		Kareem	OK
3	S2	S02	CAL3	12/31/24 12:24		Kareem	OK
4	S3	S03	CAL4	12/31/24 12:28		Kareem	OK
5	S4	S04	CAL5	12/31/24 12:32		Kareem	OK
6	S5	S05	CAL6	12/31/24 12:35		Kareem	OK
7	S6	S06	CAL7	12/31/24 12:39		Kareem	OK
8	ICV006	ICV006	ICV	12/31/24 13:00	Inst. paused for calibration review	Kareem	OK
9	ICB006	ICB006	ICB	12/31/24 13:04		Kareem	OK
10	ICSA006	ICSA006	ICSA	12/31/24 13:08		Kareem	OK
11	ICSAB006	ICSAB006	ICSAB	12/31/24 13:27	Inst. paused for review	Kareem	OK
12	CCV053	CCV053	CCV	12/31/24 13:32		Kareem	OK
13	CCB053	CCB053	CCB	12/31/24 13:36		Kareem	OK
14	P5027-17DL	MBHK27	SAM	12/31/24 13:40	4X For Ca	Kareem	Confirms
15	P5030-11DL	MBHK49	SAM	12/31/24 13:44	4X For Ca	Kareem	Confirms
16	P5266-04	ME28Y9	SAM	12/31/24 13:48	Not Use	Kareem	Not Ok
17	P5030-12DL	MBHK50	SAM	12/31/24 13:52	4X For Ca	Kareem	Confirms
18	P5038-08DL	MBHK88	SAM	12/31/24 13:56	4X For Ca	Kareem	Confirms

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Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134139

Review By	Sarabjit Jaswal	Review On	1/2/2025 2:17:07 AM
Supervise By	Mohan Bera	Supervise On	1/2/2025 2:18:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501
ICV Standard	MP83508
CCV Standard	MP83511
ICSA Standard	MP83509,MP83510
CRI Standard	
LCS Standard	
Chk Standard	MP83513,MP83514

19	P5038-15DL	MBHKA6	SAM	12/31/24 14:00	4X For Ca	Kareem	Confirms
20	P5038-17DL	MBHKA8	SAM	12/31/24 14:03	4X For Ca	Kareem	Confirms
21	P5156-13DL	ME28T9	SAM	12/31/24 14:07	Not Use	Kareem	Not Ok
22	P5156-14DL	ME28W0	SAM	12/31/24 14:11	Not Use	Kareem	Not Ok
23	P5156-21DL	ME28W5	SAM	12/31/24 14:15	4X for Fe	Kareem	Confirms
24	P5035-05DL	MBHKM6	SAM	12/31/24 14:19	4X For Ca	Kareem	Confirms
25	P5035-20DL	MBHKN9	SAM	12/31/24 14:23	4X For Ca	Kareem	Confirms
26	P5266-19DL	ME28Y9D	DUP	12/31/24 14:27	Not Use	Kareem	Not Ok
27	P5266-19DL2	ME28Y9D	DUP	12/31/24 14:31	Not Use	Kareem	Not Ok
28	PB165641TB	LEB641	MB	12/31/24 14:34	Not Use	Kareem	Not Ok
29	CCV054	CCV054	CCV	12/31/24 14:38		Kareem	OK
30	CCB054	CCB054	CCB	12/31/24 14:42		Kareem	OK