284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Cover Page

Order ID : P4722

Project ID : NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2

Client : Walsh Construction Company II, LLC

Lab Sample Number	Client Sample Number
P4722-01	WC-1(5.5)
P4722-02	WC-1(3.5)
P4722-03	WC-1(0-6)
P4722-04	WC-1(0-6)
P4722-05	WC-1(0-6)
P4722-06	WC-2(2)
P4722-07	WC-2(4)
P4722-08	WC-2(0-6)
P4722-09	WC-2(0-6)
P4722-10	WC-2(0-6)
P4722-11	WC-3(5)
P4722-12	WC-3(3)
P4722-13	WC-3(0-6)
P4722-14	WC-3(0-6)
P4722-15	WC-3(0-6)
P4722-16	WC-1(5.5)
P4722-17	WC-1(3.5)
P4722-18	WC-2(2)
P4722-19	WC-2(4)
P4722-20	WC-3(5)
P4722-21	WC-3(3)

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 11/20/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4722**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **JATIN SATHVARA** **Date:** **11/20/2024**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	P4722	**OrderDate:**	11/5/2024 3:33:08 PM
Client:	Walsh Construction Company II, LLC	**Project:**	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
Contact:	Kayla Timony	**Location:**	L23,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4722-03	**WC-1(0-6)**	**SOIL**			**11/05/24**			**11/05/24**
			Mercury	7471B		11/07/24	11/07/24	
			Metals ICP-TAL	6010D		11/06/24	11/07/24	
			Metals ICP-TAL	6010D		11/06/24	11/08/24	
P4722-04	**WC-1(0-6)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP ICP Metals	6010D		11/07/24	11/08/24	
			TCLP Mercury	7470A		11/08/24	11/08/24	
P4722-05	**WC-1(0-6)**	**Water**			**11/05/24**			**11/05/24**
			SPLP ICP Metals	6010D		11/11/24	11/14/24	
			SPLP Mercury	7470A		11/11/24	11/12/24	
P4722-08	**WC-2(0-6)**	**SOIL**			**11/05/24**			**11/05/24**
			Mercury	7471B		11/07/24	11/07/24	
			Metals ICP-TAL	6010D		11/06/24	11/07/24	
P4722-09	**WC-2(0-6)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP ICP Metals	6010D		11/07/24	11/08/24	
			TCLP Mercury	7470A		11/08/24	11/08/24	
P4722-10	**WC-2(0-6)**	**Water**			**11/05/24**			**11/05/24**
			SPLP ICP Metals	6010D		11/11/24	11/14/24	
			SPLP Mercury	7470A		11/11/24	11/12/24	
P4722-13	**WC-3(0-6)**	**SOIL**			**11/05/24**			**11/05/24**
			Mercury	7471B		11/07/24	11/07/24	
			Metals ICP-TAL	6010D		11/06/24	11/07/24	
P4722-14	**WC-3(0-6)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP ICP Metals	6010D		11/07/24	11/08/24	
			TCLP Mercury	7470A		11/08/24	11/08/24	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

P4722-15	**WC-3(0-6)**	**Water**			**11/05/24**		**11/05/24**
			SPLP ICP Metals	6010D	11/11/24	11/14/24	
			SPLP Mercury	7470A	11/11/24	11/12/24	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4722 **Order ID:** P4722

Client: Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B-1 S

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WC-1(0-6)								
P4722-05	WC-1(0-6)	Water	Aluminum	155		28.3	50.0	ug/L
P4722-05	WC-1(0-6)	Water	Antimony	3.34	J	2.06	25.0	ug/L
P4722-05	WC-1(0-6)	Water	Barium	109		6.28	50.0	ug/L
P4722-05	WC-1(0-6)	Water	Cadmium	0.21	J	0.094	3.00	ug/L
P4722-05	WC-1(0-6)	Water	Calcium	158000		33.0	1000	ug/L
P4722-05	WC-1(0-6)	Water	Chromium	4.63	J	0.66	5.00	ug/L
P4722-05	WC-1(0-6)	Water	Cobalt	1.75	J	0.50	15.0	ug/L
P4722-05	WC-1(0-6)	Water	Copper	7.87	J	7.07	10.0	ug/L
P4722-05	WC-1(0-6)	Water	Iron	363		18.5	50.0	ug/L
P4722-05	WC-1(0-6)	Water	Lead	6.83		3.51	6.00	ug/L
P4722-05	WC-1(0-6)	Water	Magnesium	6200		39.4	1000	ug/L
P4722-05	WC-1(0-6)	Water	Manganese	321		1.46	10.0	ug/L
P4722-05	WC-1(0-6)	Water	Nickel	2.99	J	0.85	20.0	ug/L
P4722-05	WC-1(0-6)	Water	Potassium	4180		685	1000	ug/L
P4722-05	WC-1(0-6)	Water	Sodium	10400		237	1000	ug/L
P4722-05	WC-1(0-6)	Water	Zinc	67.9		1.75	20.0	ug/L
Client ID : WC-2(0-6)								
P4722-10	WC-2(0-6)	Water	Antimony	3.41	J	2.06	25.0	ug/L
P4722-10	WC-2(0-6)	Water	Barium	77.7		6.28	50.0	ug/L
P4722-10	WC-2(0-6)	Water	Cadmium	0.32	J	0.094	3.00	ug/L
P4722-10	WC-2(0-6)	Water	Calcium	144000		33.0	1000	ug/L
P4722-10	WC-2(0-6)	Water	Chromium	2.26	J	0.66	5.00	ug/L
P4722-10	WC-2(0-6)	Water	Copper	8.17	J	7.07	10.0	ug/L
P4722-10	WC-2(0-6)	Water	Iron	38.2	J	18.5	50.0	ug/L
P4722-10	WC-2(0-6)	Water	Lead	14.2		3.51	6.00	ug/L
P4722-10	WC-2(0-6)	Water	Magnesium	3820		39.4	1000	ug/L
P4722-10	WC-2(0-6)	Water	Manganese	14.7		1.46	10.0	ug/L
P4722-10	WC-2(0-6)	Water	Nickel	1.21	J	0.85	20.0	ug/L
P4722-10	WC-2(0-6)	Water	Potassium	3270		685	1000	ug/L
P4722-10	WC-2(0-6)	Water	Sodium	17300		237	1000	ug/L
P4722-10	WC-2(0-6)	Water	Zinc	157		1.75	20.0	ug/L
Client ID : WC-3(0-6)								
P4722-15	WC-3(0-6)	Water	Aluminum	29.5	J	28.3	50.0	ug/L
P4722-15	WC-3(0-6)	Water	Antimony	2.70	J	2.06	25.0	ug/L
P4722-15	WC-3(0-6)	Water	Barium	76.6		6.28	50.0	ug/L
P4722-15	WC-3(0-6)	Water	Cadmium	0.32	J	0.094	3.00	ug/L

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4722 **Order ID:** P4722

Client: Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B-1 S

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4722-15	WC-3(0-6)	Water	Calcium	167000		33.0	1000	ug/L
P4722-15	WC-3(0-6)	Water	Chromium	1.28	J	0.66	5.00	ug/L
P4722-15	WC-3(0-6)	Water	Copper	10.4		7.07	10.0	ug/L
P4722-15	WC-3(0-6)	Water	Iron	96.2		18.5	50.0	ug/L
P4722-15	WC-3(0-6)	Water	Lead	12.8		3.51	6.00	ug/L
P4722-15	WC-3(0-6)	Water	Magnesium	6910		39.4	1000	ug/L
P4722-15	WC-3(0-6)	Water	Manganese	21.7		1.46	10.0	ug/L
P4722-15	WC-3(0-6)	Water	Nickel	3.85	J	0.85	20.0	ug/L
P4722-15	WC-3(0-6)	Water	Potassium	3330		685	1000	ug/L
P4722-15	WC-3(0-6)	Water	Sodium	19600		237	1000	ug/L
P4722-15	WC-3(0-6)	Water	Zinc	55.1		1.75	20.0	ug/L

Alliance
TECHNICAL GROUP

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-04	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	11/07/24 12:30	11/08/24 16:06	SW6010	SW3050
7440-39-3	Barium	992	N	1	62.8	500	ug/L	11/07/24 12:30	11/08/24 16:06	SW6010	SW3050
7440-43-9	Cadmium	9.53	J	1	0.94	30.0	ug/L	11/07/24 12:30	11/08/24 16:06	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	11/07/24 12:30	11/08/24 16:06	SW6010	SW3050
7439-92-1	Lead	1170		1	35.1	60.0	ug/L	11/07/24 12:30	11/08/24 16:06	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	11/07/24 11:50	11/08/24 11:00	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	11/07/24 12:30	11/08/24 16:06	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	11/07/24 12:30	11/08/24 16:06	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP METALS				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	155		1	28.3	50.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-36-0	Antimony	3.34	J	1	2.06	25.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-39-3	Barium	109		1	6.28	50.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-43-9	Cadmium	0.21	J	1	0.094	3.00	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-70-2	Calcium	158000		1	33.0	1000	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-47-3	Chromium	4.63	J	1	0.66	5.00	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-48-4	Cobalt	1.75	J	1	0.50	15.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-50-8	Copper	7.87	J	1	7.07	10.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7439-89-6	Iron	363		1	18.5	50.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7439-92-1	Lead	6.83		1	3.51	6.00	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7439-95-4	Magnesium	6200		1	39.4	1000	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7439-96-5	Manganese	321		1	1.46	10.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	11/11/24 16:33	11/12/24 14:53	SW7470A	
7440-02-0	Nickel	2.99	J	1	0.85	20.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-09-7	Potassium	4180		1	685	1000	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-23-5	Sodium	10400		1	237	1000	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010
7440-66-6	Zinc	67.9		1	1.75	20.0	ug/L	11/11/24 10:30	11/14/24 18:58	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	SPLP ICP Metals				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-09	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	11/07/24 12:30	11/08/24 16:10	SW6010	SW3050
7440-39-3	Barium	742	N	1	62.8	500	ug/L	11/07/24 12:30	11/08/24 16:10	SW6010	SW3050
7440-43-9	Cadmium	8.24	J	1	0.94	30.0	ug/L	11/07/24 12:30	11/08/24 16:10	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	11/07/24 12:30	11/08/24 16:10	SW6010	SW3050
7439-92-1	Lead	921		1	35.1	60.0	ug/L	11/07/24 12:30	11/08/24 16:10	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	11/07/24 11:50	11/08/24 11:03	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	11/07/24 12:30	11/08/24 16:10	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	11/07/24 12:30	11/08/24 16:10	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP METALS				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	28.3	U	1	28.3	50.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-36-0	Antimony	3.41	J	1	2.06	25.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-39-3	Barium	77.7		1	6.28	50.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-43-9	Cadmium	0.32	J	1	0.094	3.00	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-70-2	Calcium	144000		1	33.0	1000	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-47-3	Chromium	2.26	J	1	0.66	5.00	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-50-8	Copper	8.17	J	1	7.07	10.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7439-89-6	Iron	38.2	J	1	18.5	50.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7439-92-1	Lead	14.2		1	3.51	6.00	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7439-95-4	Magnesium	3820		1	39.4	1000	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7439-96-5	Manganese	14.7		1	1.46	10.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	11/11/24 16:33	11/12/24 14:56	SW7470A	
7440-02-0	Nickel	1.21	J	1	0.85	20.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-09-7	Potassium	3270		1	685	1000	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-23-5	Sodium	17300		1	237	1000	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010
7440-66-6	Zinc	157		1	1.75	20.0	ug/L	11/11/24 10:30	11/14/24 19:11	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	SPLP ICP Metals				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-14	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	11/07/24 12:30	11/08/24 16:15	SW6010	SW3050
7440-39-3	Barium	594	N	1	62.8	500	ug/L	11/07/24 12:30	11/08/24 16:15	SW6010	SW3050
7440-43-9	Cadmium	20.6	J	1	0.94	30.0	ug/L	11/07/24 12:30	11/08/24 16:15	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	11/07/24 12:30	11/08/24 16:15	SW6010	SW3050
7439-92-1	Lead	487		1	35.1	60.0	ug/L	11/07/24 12:30	11/08/24 16:15	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	11/07/24 11:50	11/08/24 11:05	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	11/07/24 12:30	11/08/24 16:15	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	11/07/24 12:30	11/08/24 16:15	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP METALS				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-15	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	29.5	J	1	28.3	50.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-36-0	Antimony	2.70	J	1	2.06	25.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-39-3	Barium	76.6		1	6.28	50.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-43-9	Cadmium	0.32	J	1	0.094	3.00	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-70-2	Calcium	167000		1	33.0	1000	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-47-3	Chromium	1.28	J	1	0.66	5.00	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-50-8	Copper	10.4		1	7.07	10.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7439-89-6	Iron	96.2		1	18.5	50.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7439-92-1	Lead	12.8		1	3.51	6.00	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7439-95-4	Magnesium	6910		1	39.4	1000	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7439-96-5	Manganese	21.7		1	1.46	10.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	11/11/24 16:33	11/12/24 14:58	SW7470A	
7440-02-0	Nickel	3.85	J	1	0.85	20.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-09-7	Potassium	3330		1	685	1000	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-23-5	Sodium	19600		1	237	1000	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010
7440-66-6	Zinc	55.1		1	1.75	20.0	ug/L	11/11/24 10:30	11/14/24 19:16	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	SPLP ICP Metals				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV83	Mercury	4.00	4.0	100	90 - 110	CV	11/12/2024	14:17	LB133407

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV75	Mercury	4.87	5.0	97	90 - 110	CV	11/12/2024	14:27	LB133407
CCV76	Mercury	5.10	5.0	102	90 - 110	CV	11/12/2024	15:05	LB133407
CCV77	Mercury	5.31	5.0	106	90 - 110	CV	11/12/2024	15:32	LB133407
CCV78	Mercury	4.53	5.0	91	90 - 110	CV	11/12/2024	15:59	LB133407
CCV79	Mercury	4.71	5.0	94	90 - 110	CV	11/12/2024	16:25	LB133407

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2580	2500	103	90 - 110	P	11/14/2024	13:58	LB133457
	Antimony	1000	1000	100	90 - 110	P	11/14/2024	13:58	LB133457
	Arsenic	1040	1000	104	90 - 110	P	11/14/2024	13:58	LB133457
	Barium	520	520	100	90 - 110	P	11/14/2024	13:58	LB133457
	Beryllium	521	510	102	90 - 110	P	11/14/2024	13:58	LB133457
	Cadmium	508	510	100	90 - 110	P	11/14/2024	13:58	LB133457
	Calcium	10300	10000	103	90 - 110	P	11/14/2024	13:58	LB133457
	Chromium	533	520	102	90 - 110	P	11/14/2024	13:58	LB133457
	Cobalt	516	520	99	90 - 110	P	11/14/2024	13:58	LB133457
	Copper	532	510	104	90 - 110	P	11/14/2024	13:58	LB133457
	Iron	9960	10000	100	90 - 110	P	11/14/2024	13:58	LB133457
	Lead	1020	1000	102	90 - 110	P	11/14/2024	13:58	LB133457
	Magnesium	6020	6000	100	90 - 110	P	11/14/2024	13:58	LB133457
	Manganese	526	520	101	90 - 110	P	11/14/2024	13:58	LB133457
	Nickel	520	530	98	90 - 110	P	11/14/2024	13:58	LB133457
	Potassium	9810	9900	99	90 - 110	P	11/14/2024	13:58	LB133457
	Selenium	1040	1000	104	90 - 110	P	11/14/2024	13:58	LB133457
	Silver	255	250	102	90 - 110	P	11/14/2024	13:58	LB133457
	Sodium	9490	10000	95	90 - 110	P	11/14/2024	13:58	LB133457
	Thallium	1060	1000	106	90 - 110	P	11/14/2024	13:58	LB133457
	Vanadium	507	500	102	90 - 110	P	11/14/2024	13:58	LB133457
	Zinc	1050	1000	105	90 - 110	P	11/14/2024	13:58	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	94.9	100	95	80 - 120	P	11/14/2024	14:10	LB133457
	Antimony	45.5	50.0	91	80 - 120	P	11/14/2024	14:10	LB133457
	Arsenic	20.1	20.0	101	80 - 120	P	11/14/2024	14:10	LB133457
	Barium	94.7	100	95	80 - 120	P	11/14/2024	14:10	LB133457
	Beryllium	5.56	6.0	93	80 - 120	P	11/14/2024	14:10	LB133457
	Cadmium	6.49	6.0	108	80 - 120	P	11/14/2024	14:10	LB133457
	Calcium	1920	2000	96	80 - 120	P	11/14/2024	14:10	LB133457
	Chromium	9.23	10.0	92	80 - 120	P	11/14/2024	14:10	LB133457
	Cobalt	27.6	30.0	92	80 - 120	P	11/14/2024	14:10	LB133457
	Copper	20.5	20.0	103	80 - 120	P	11/14/2024	14:10	LB133457
	Iron	93.0	100	93	80 - 120	P	11/14/2024	14:10	LB133457
	Lead	10.8	12.0	90	80 - 120	P	11/14/2024	14:10	LB133457
	Magnesium	1910	2000	96	80 - 120	P	11/14/2024	14:10	LB133457
	Manganese	19.5	20.0	98	80 - 120	P	11/14/2024	14:10	LB133457
	Nickel	36.5	40.0	91	80 - 120	P	11/14/2024	14:10	LB133457
	Potassium	1780	2000	89	80 - 120	P	11/14/2024	14:10	LB133457
	Selenium	17.4	20.0	87	80 - 120	P	11/14/2024	14:10	LB133457
	Silver	9.68	10.0	97	80 - 120	P	11/14/2024	14:10	LB133457
	Sodium	1600	2000	80	80 - 120	P	11/14/2024	14:10	LB133457
	Thallium	37.7	40.0	94	80 - 120	P	11/14/2024	14:10	LB133457
	Vanadium	37.6	40.0	94	80 - 120	P	11/14/2024	14:10	LB133457
	Zinc	40.3	40.0	101	80 - 120	P	11/14/2024	14:10	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10200	10000	102	90 - 110	P	11/14/2024	15:22	LB133457
	Antimony	5080	5000	102	90 - 110	P	11/14/2024	15:22	LB133457
	Arsenic	5030	5000	100	90 - 110	P	11/14/2024	15:22	LB133457
	Barium	10200	10000	102	90 - 110	P	11/14/2024	15:22	LB133457
	Beryllium	251	250	100	90 - 110	P	11/14/2024	15:22	LB133457
	Cadmium	2490	2500	100	90 - 110	P	11/14/2024	15:22	LB133457
	Calcium	25200	25000	101	90 - 110	P	11/14/2024	15:22	LB133457
	Chromium	1020	1000	102	90 - 110	P	11/14/2024	15:22	LB133457
	Cobalt	2490	2500	100	90 - 110	P	11/14/2024	15:22	LB133457
	Copper	1270	1250	102	90 - 110	P	11/14/2024	15:22	LB133457
	Iron	5030	5000	101	90 - 110	P	11/14/2024	15:22	LB133457
	Lead	4980	5000	100	90 - 110	P	11/14/2024	15:22	LB133457
	Magnesium	25400	25000	102	90 - 110	P	11/14/2024	15:22	LB133457
	Manganese	2490	2500	100	90 - 110	P	11/14/2024	15:22	LB133457
	Nickel	2500	2500	100	90 - 110	P	11/14/2024	15:22	LB133457
	Potassium	25400	25000	102	90 - 110	P	11/14/2024	15:22	LB133457
	Selenium	5080	5000	102	90 - 110	P	11/14/2024	15:22	LB133457
	Silver	1260	1250	101	90 - 110	P	11/14/2024	15:22	LB133457
	Sodium	25600	25000	102	90 - 110	P	11/14/2024	15:22	LB133457
	Thallium	4990	5000	100	90 - 110	P	11/14/2024	15:22	LB133457
	Vanadium	2530	2500	101	90 - 110	P	11/14/2024	15:22	LB133457
	Zinc	2560	2500	103	90 - 110	P	11/14/2024	15:22	LB133457
CCV02	Aluminum	9350	10000	94	90 - 110	P	11/14/2024	15:35	LB133457
	Antimony	4690	5000	94	90 - 110	P	11/14/2024	15:35	LB133457
	Arsenic	4660	5000	93	90 - 110	P	11/14/2024	15:35	LB133457
	Barium	9380	10000	94	90 - 110	P	11/14/2024	15:35	LB133457
	Beryllium	238	250	95	90 - 110	P	11/14/2024	15:35	LB133457
	Cadmium	2340	2500	94	90 - 110	P	11/14/2024	15:35	LB133457
	Calcium	23500	25000	94	90 - 110	P	11/14/2024	15:35	LB133457
	Chromium	952	1000	95	90 - 110	P	11/14/2024	15:35	LB133457
	Cobalt	2340	2500	93	90 - 110	P	11/14/2024	15:35	LB133457
	Copper	1180	1250	95	90 - 110	P	11/14/2024	15:35	LB133457
	Iron	4670	5000	94	90 - 110	P	11/14/2024	15:35	LB133457
	Lead	4680	5000	94	90 - 110	P	11/14/2024	15:35	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23300	25000	93	90 - 110	P	11/14/2024	15:35	LB133457
	Manganese	2350	2500	94	90 - 110	P	11/14/2024	15:35	LB133457
	Nickel	2340	2500	94	90 - 110	P	11/14/2024	15:35	LB133457
	Potassium	23000	25000	92	90 - 110	P	11/14/2024	15:35	LB133457
	Selenium	4660	5000	93	90 - 110	P	11/14/2024	15:35	LB133457
	Silver	1180	1250	94	90 - 110	P	11/14/2024	15:35	LB133457
	Sodium	23400	25000	93	90 - 110	P	11/14/2024	15:35	LB133457
	Thallium	4730	5000	94	90 - 110	P	11/14/2024	15:35	LB133457
	Vanadium	2340	2500	94	90 - 110	P	11/14/2024	15:35	LB133457
	Zinc	2370	2500	95	90 - 110	P	11/14/2024	15:35	LB133457
CCV03	Aluminum	9840	10000	98	90 - 110	P	11/14/2024	16:27	LB133457
	Antimony	5140	5000	103	90 - 110	P	11/14/2024	16:27	LB133457
	Arsenic	5110	5000	102	90 - 110	P	11/14/2024	16:27	LB133457
	Barium	9600	10000	96	90 - 110	P	11/14/2024	16:27	LB133457
	Beryllium	245	250	98	90 - 110	P	11/14/2024	16:27	LB133457
	Cadmium	2540	2500	102	90 - 110	P	11/14/2024	16:27	LB133457
	Calcium	24300	25000	97	90 - 110	P	11/14/2024	16:27	LB133457
	Chromium	1020	1000	102	90 - 110	P	11/14/2024	16:27	LB133457
	Cobalt	2540	2500	102	90 - 110	P	11/14/2024	16:27	LB133457
	Copper	1300	1250	104	90 - 110	P	11/14/2024	16:27	LB133457
	Iron	4940	5000	99	90 - 110	P	11/14/2024	16:27	LB133457
	Lead	5090	5000	102	90 - 110	P	11/14/2024	16:27	LB133457
	Magnesium	24200	25000	97	90 - 110	P	11/14/2024	16:27	LB133457
	Manganese	2400	2500	96	90 - 110	P	11/14/2024	16:27	LB133457
	Nickel	2550	2500	102	90 - 110	P	11/14/2024	16:27	LB133457
	Potassium	24700	25000	99	90 - 110	P	11/14/2024	16:27	LB133457
	Selenium	5130	5000	103	90 - 110	P	11/14/2024	16:27	LB133457
	Silver	1250	1250	100	90 - 110	P	11/14/2024	16:27	LB133457
	Sodium	24700	25000	99	90 - 110	P	11/14/2024	16:27	LB133457
	Thallium	5050	5000	101	90 - 110	P	11/14/2024	16:27	LB133457
	Vanadium	2450	2500	98	90 - 110	P	11/14/2024	16:27	LB133457
	Zinc	2540	2500	102	90 - 110	P	11/14/2024	16:27	LB133457
CCV04	Aluminum	9510	10000	95	90 - 110	P	11/14/2024	17:23	LB133457
	Antimony	4720	5000	94	90 - 110	P	11/14/2024	17:23	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4730	5000	94	90 - 110	P	11/14/2024	17:23	LB133457
	Barium	9470	10000	95	90 - 110	P	11/14/2024	17:23	LB133457
	Beryllium	243	250	97	90 - 110	P	11/14/2024	17:23	LB133457
	Cadmium	2380	2500	95	90 - 110	P	11/14/2024	17:23	LB133457
	Calcium	23900	25000	96	90 - 110	P	11/14/2024	17:23	LB133457
	Chromium	962	1000	96	90 - 110	P	11/14/2024	17:23	LB133457
	Cobalt	2380	2500	95	90 - 110	P	11/14/2024	17:23	LB133457
	Copper	1190	1250	95	90 - 110	P	11/14/2024	17:23	LB133457
	Iron	4720	5000	94	90 - 110	P	11/14/2024	17:23	LB133457
	Lead	4770	5000	95	90 - 110	P	11/14/2024	17:23	LB133457
	Magnesium	23700	25000	95	90 - 110	P	11/14/2024	17:23	LB133457
	Manganese	2370	2500	95	90 - 110	P	11/14/2024	17:23	LB133457
	Nickel	2390	2500	95	90 - 110	P	11/14/2024	17:23	LB133457
	Potassium	23200	25000	93	90 - 110	P	11/14/2024	17:23	LB133457
	Selenium	4710	5000	94	90 - 110	P	11/14/2024	17:23	LB133457
	Silver	1190	1250	95	90 - 110	P	11/14/2024	17:23	LB133457
	Sodium	23500	25000	94	90 - 110	P	11/14/2024	17:23	LB133457
	Thallium	4920	5000	98	90 - 110	P	11/14/2024	17:23	LB133457
	Vanadium	2380	2500	95	90 - 110	P	11/14/2024	17:23	LB133457
	Zinc	2410	2500	96	90 - 110	P	11/14/2024	17:23	LB133457
CCV05	Aluminum	9910	10000	99	90 - 110	P	11/14/2024	18:12	LB133457
	Antimony	4890	5000	98	90 - 110	P	11/14/2024	18:12	LB133457
	Arsenic	4900	5000	98	90 - 110	P	11/14/2024	18:12	LB133457
	Barium	9970	10000	100	90 - 110	P	11/14/2024	18:12	LB133457
	Beryllium	253	250	101	90 - 110	P	11/14/2024	18:12	LB133457
	Cadmium	2470	2500	99	90 - 110	P	11/14/2024	18:12	LB133457
	Calcium	24900	25000	100	90 - 110	P	11/14/2024	18:12	LB133457
	Chromium	996	1000	100	90 - 110	P	11/14/2024	18:12	LB133457
	Cobalt	2470	2500	99	90 - 110	P	11/14/2024	18:12	LB133457
	Copper	1240	1250	99	90 - 110	P	11/14/2024	18:12	LB133457
	Iron	4940	5000	99	90 - 110	P	11/14/2024	18:12	LB133457
	Lead	4960	5000	99	90 - 110	P	11/14/2024	18:12	LB133457
	Magnesium	24400	25000	98	90 - 110	P	11/14/2024	18:12	LB133457
	Manganese	2490	2500	100	90 - 110	P	11/14/2024	18:12	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2480	2500	99	90 - 110	P	11/14/2024	18:12	LB133457
	Potassium	24300	25000	97	90 - 110	P	11/14/2024	18:12	LB133457
	Selenium	4860	5000	97	90 - 110	P	11/14/2024	18:12	LB133457
	Silver	1240	1250	99	90 - 110	P	11/14/2024	18:12	LB133457
	Sodium	24800	25000	99	90 - 110	P	11/14/2024	18:12	LB133457
	Thallium	4930	5000	99	90 - 110	P	11/14/2024	18:12	LB133457
	Vanadium	2480	2500	99	90 - 110	P	11/14/2024	18:12	LB133457
	Zinc	2500	2500	100	90 - 110	P	11/14/2024	18:12	LB133457
CCV06	Aluminum	9670	10000	97	90 - 110	P	11/14/2024	19:03	LB133457
	Antimony	4750	5000	95	90 - 110	P	11/14/2024	19:03	LB133457
	Arsenic	4770	5000	95	90 - 110	P	11/14/2024	19:03	LB133457
	Barium	9920	10000	99	90 - 110	P	11/14/2024	19:03	LB133457
	Beryllium	250	250	100	90 - 110	P	11/14/2024	19:03	LB133457
	Cadmium	2400	2500	96	90 - 110	P	11/14/2024	19:03	LB133457
	Calcium	24500	25000	98	90 - 110	P	11/14/2024	19:03	LB133457
	Chromium	971	1000	97	90 - 110	P	11/14/2024	19:03	LB133457
	Cobalt	2400	2500	96	90 - 110	P	11/14/2024	19:03	LB133457
	Copper	1210	1250	96	90 - 110	P	11/14/2024	19:03	LB133457
	Iron	4840	5000	97	90 - 110	P	11/14/2024	19:03	LB133457
	Lead	4820	5000	96	90 - 110	P	11/14/2024	19:03	LB133457
	Magnesium	23900	25000	95	90 - 110	P	11/14/2024	19:03	LB133457
	Manganese	2460	2500	98	90 - 110	P	11/14/2024	19:03	LB133457
	Nickel	2410	2500	96	90 - 110	P	11/14/2024	19:03	LB133457
	Potassium	23800	25000	95	90 - 110	P	11/14/2024	19:03	LB133457
	Selenium	4720	5000	94	90 - 110	P	11/14/2024	19:03	LB133457
	Silver	1210	1250	97	90 - 110	P	11/14/2024	19:03	LB133457
	Sodium	25000	25000	100	90 - 110	P	11/14/2024	19:03	LB133457
	Thallium	4960	5000	99	90 - 110	P	11/14/2024	19:03	LB133457
	Vanadium	2430	2500	97	90 - 110	P	11/14/2024	19:03	LB133457
	Zinc	2420	2500	97	90 - 110	P	11/14/2024	19:03	LB133457
CCV07	Aluminum	9690	10000	97	90 - 110	P	11/14/2024	19:55	LB133457
	Antimony	4850	5000	97	90 - 110	P	11/14/2024	19:55	LB133457
	Arsenic	4840	5000	97	90 - 110	P	11/14/2024	19:55	LB133457
	Barium	9800	10000	98	90 - 110	P	11/14/2024	19:55	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	247	250	99	90 - 110	P	11/14/2024	19:55	LB133457
	Cadmium	2420	2500	97	90 - 110	P	11/14/2024	19:55	LB133457
	Calcium	24300	25000	97	90 - 110	P	11/14/2024	19:55	LB133457
	Chromium	980	1000	98	90 - 110	P	11/14/2024	19:55	LB133457
	Cobalt	2420	2500	97	90 - 110	P	11/14/2024	19:55	LB133457
	Copper	1230	1250	98	90 - 110	P	11/14/2024	19:55	LB133457
	Iron	4820	5000	96	90 - 110	P	11/14/2024	19:55	LB133457
	Lead	4850	5000	97	90 - 110	P	11/14/2024	19:55	LB133457
	Magnesium	23800	25000	95	90 - 110	P	11/14/2024	19:55	LB133457
	Manganese	2420	2500	97	90 - 110	P	11/14/2024	19:55	LB133457
	Nickel	2420	2500	97	90 - 110	P	11/14/2024	19:55	LB133457
	Potassium	24000	25000	96	90 - 110	P	11/14/2024	19:55	LB133457
	Selenium	4850	5000	97	90 - 110	P	11/14/2024	19:55	LB133457
	Silver	1220	1250	97	90 - 110	P	11/14/2024	19:55	LB133457
	Sodium	25300	25000	101	90 - 110	P	11/14/2024	19:55	LB133457
	Thallium	4990	5000	100	90 - 110	P	11/14/2024	19:55	LB133457
	Vanadium	2430	2500	97	90 - 110	P	11/14/2024	19:55	LB133457
	Zinc	2450	2500	98	90 - 110	P	11/14/2024	19:55	LB133457
CCV08	Aluminum	9850	10000	98	90 - 110	P	11/14/2024	20:47	LB133457
	Antimony	4950	5000	99	90 - 110	P	11/14/2024	20:47	LB133457
	Arsenic	4920	5000	98	90 - 110	P	11/14/2024	20:47	LB133457
	Barium	9680	10000	97	90 - 110	P	11/14/2024	20:47	LB133457
	Beryllium	245	250	98	90 - 110	P	11/14/2024	20:47	LB133457
	Cadmium	2450	2500	98	90 - 110	P	11/14/2024	20:47	LB133457
	Calcium	24200	25000	97	90 - 110	P	11/14/2024	20:47	LB133457
	Chromium	1000	1000	100	90 - 110	P	11/14/2024	20:47	LB133457
	Cobalt	2450	2500	98	90 - 110	P	11/14/2024	20:47	LB133457
	Copper	1250	1250	100	90 - 110	P	11/14/2024	20:47	LB133457
	Iron	4860	5000	97	90 - 110	P	11/14/2024	20:47	LB133457
	Lead	4900	5000	98	90 - 110	P	11/14/2024	20:47	LB133457
	Magnesium	24100	25000	96	90 - 110	P	11/14/2024	20:47	LB133457
	Manganese	2380	2500	95	90 - 110	P	11/14/2024	20:47	LB133457
	Nickel	2450	2500	98	90 - 110	P	11/14/2024	20:47	LB133457
	Potassium	24600	25000	98	90 - 110	P	11/14/2024	20:47	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4960	5000	99	90 - 110	P	11/14/2024	20:47	LB133457
	Silver	1230	1250	99	90 - 110	P	11/14/2024	20:47	LB133457
	Sodium	25500	25000	102	90 - 110	P	11/14/2024	20:47	LB133457
	Thallium	4920	5000	98	90 - 110	P	11/14/2024	20:47	LB133457
	Vanadium	2440	2500	98	90 - 110	P	11/14/2024	20:47	LB133457
	Zinc	2500	2500	100	90 - 110	P	11/14/2024	20:47	LB133457
CCV09	Aluminum	9700	10000	97	90 - 110	P	11/14/2024	22:04	LB133457
	Antimony	4760	5000	95	90 - 110	P	11/14/2024	22:04	LB133457
	Arsenic	4790	5000	96	90 - 110	P	11/14/2024	22:04	LB133457
	Barium	9850	10000	98	90 - 110	P	11/14/2024	22:04	LB133457
	Beryllium	248	250	99	90 - 110	P	11/14/2024	22:04	LB133457
	Cadmium	2420	2500	97	90 - 110	P	11/14/2024	22:04	LB133457
	Calcium	24500	25000	98	90 - 110	P	11/14/2024	22:04	LB133457
	Chromium	980	1000	98	90 - 110	P	11/14/2024	22:04	LB133457
	Cobalt	2410	2500	96	90 - 110	P	11/14/2024	22:04	LB133457
	Copper	1220	1250	98	90 - 110	P	11/14/2024	22:04	LB133457
	Iron	4900	5000	98	90 - 110	P	11/14/2024	22:04	LB133457
	Lead	4830	5000	97	90 - 110	P	11/14/2024	22:04	LB133457
	Magnesium	23900	25000	96	90 - 110	P	11/14/2024	22:04	LB133457
	Manganese	2450	2500	98	90 - 110	P	11/14/2024	22:04	LB133457
	Nickel	2420	2500	97	90 - 110	P	11/14/2024	22:04	LB133457
	Potassium	24300	25000	97	90 - 110	P	11/14/2024	22:04	LB133457
	Selenium	4760	5000	95	90 - 110	P	11/14/2024	22:04	LB133457
	Silver	1210	1250	97	90 - 110	P	11/14/2024	22:04	LB133457
	Sodium	25200	25000	101	90 - 110	P	11/14/2024	22:04	LB133457
	Thallium	4880	5000	98	90 - 110	P	11/14/2024	22:04	LB133457
	Vanadium	2440	2500	98	90 - 110	P	11/14/2024	22:04	LB133457
	Zinc	2440	2500	98	90 - 110	P	11/14/2024	22:04	LB133457
CCV10	Aluminum	9610	10000	96	90 - 110	P	11/14/2024	22:58	LB133457
	Antimony	4780	5000	96	90 - 110	P	11/14/2024	22:58	LB133457
	Arsenic	4790	5000	96	90 - 110	P	11/14/2024	22:58	LB133457
	Barium	9850	10000	98	90 - 110	P	11/14/2024	22:58	LB133457
	Beryllium	245	250	98	90 - 110	P	11/14/2024	22:58	LB133457
	Cadmium	2400	2500	96	90 - 110	P	11/14/2024	22:58	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	24000	25000	96	90 - 110	P	11/14/2024	22:58	LB133457
	Chromium	974	1000	97	90 - 110	P	11/14/2024	22:58	LB133457
	Cobalt	2400	2500	96	90 - 110	P	11/14/2024	22:58	LB133457
	Copper	1220	1250	98	90 - 110	P	11/14/2024	22:58	LB133457
	Iron	4860	5000	97	90 - 110	P	11/14/2024	22:58	LB133457
	Lead	4800	5000	96	90 - 110	P	11/14/2024	22:58	LB133457
	Magnesium	23200	25000	93	90 - 110	P	11/14/2024	22:58	LB133457
	Manganese	2430	2500	97	90 - 110	P	11/14/2024	22:58	LB133457
	Nickel	2410	2500	96	90 - 110	P	11/14/2024	22:58	LB133457
	Potassium	24400	25000	98	90 - 110	P	11/14/2024	22:58	LB133457
	Selenium	4740	5000	95	90 - 110	P	11/14/2024	22:58	LB133457
	Silver	1220	1250	97	90 - 110	P	11/14/2024	22:58	LB133457
	Sodium	25200	25000	101	90 - 110	P	11/14/2024	22:58	LB133457
	Thallium	4850	5000	97	90 - 110	P	11/14/2024	22:58	LB133457
	Vanadium	2420	2500	97	90 - 110	P	11/14/2024	22:58	LB133457
	Zinc	2710	2500	109	90 - 110	P	11/14/2024	22:58	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV75	Mercury	3.66	4.0	92	90 - 110	CV	11/08/2024	10:19	LB133352

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV51	Mercury	5.08	5.0	102	90 - 110	CV	11/08/2024	10:23	LB133352
CCV52	Mercury	4.97	5.0	99	90 - 110	CV	11/08/2024	10:53	LB133352
CCV53	Mercury	4.67	5.0	93	90 - 110	CV	11/08/2024	11:21	LB133352
CCV54	Mercury	4.56	5.0	91	90 - 110	CV	11/08/2024	11:32	LB133352

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1000	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Barium	513	520	99	90 - 110	P	11/08/2024	13:59	LB133365
	Cadmium	497	510	97	90 - 110	P	11/08/2024	13:59	LB133365
	Chromium	514	520	99	90 - 110	P	11/08/2024	13:59	LB133365
	Lead	999	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Selenium	1000	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Silver	251	250	100	90 - 110	P	11/08/2024	13:59	LB133365

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	19.5	20.0	98	80 - 120	P	11/08/2024	14:11	LB133365
	Barium	95.3	100	95	80 - 120	P	11/08/2024	14:11	LB133365
	Cadmium	6.34	6.0	106	80 - 120	P	11/08/2024	14:11	LB133365
	Chromium	9.48	10.0	95	80 - 120	P	11/08/2024	14:11	LB133365
	Lead	11.8	12.0	99	80 - 120	P	11/08/2024	14:11	LB133365
	Selenium	20.6	20.0	103	80 - 120	P	11/08/2024	14:11	LB133365
	Silver	10.6	10.0	106	80 - 120	P	11/08/2024	14:11	LB133365

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4950	5000	99	90 - 110	P	11/08/2024	14:44	LB133365
	Barium	9530	10000	95	90 - 110	P	11/08/2024	14:44	LB133365
	Cadmium	2390	2500	96	90 - 110	P	11/08/2024	14:44	LB133365
	Chromium	1050	1000	105	90 - 110	P	11/08/2024	14:44	LB133365
	Lead	4870	5000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Selenium	5020	5000	100	90 - 110	P	11/08/2024	14:44	LB133365
	Silver	1230	1250	99	90 - 110	P	11/08/2024	14:44	LB133365
CCV02	Arsenic	4950	5000	99	90 - 110	P	11/08/2024	15:29	LB133365
	Barium	9460	10000	95	90 - 110	P	11/08/2024	15:29	LB133365
	Cadmium	2360	2500	94	90 - 110	P	11/08/2024	15:29	LB133365
	Chromium	918	1000	92	90 - 110	P	11/08/2024	15:29	LB133365
	Lead	4800	5000	96	90 - 110	P	11/08/2024	15:29	LB133365
	Selenium	5080	5000	102	90 - 110	P	11/08/2024	15:29	LB133365
	Silver	1230	1250	98	90 - 110	P	11/08/2024	15:29	LB133365
CCV03	Arsenic	4980	5000	100	90 - 110	P	11/08/2024	16:23	LB133365
	Barium	9610	10000	96	90 - 110	P	11/08/2024	16:23	LB133365
	Cadmium	2380	2500	95	90 - 110	P	11/08/2024	16:23	LB133365
	Chromium	930	1000	93	90 - 110	P	11/08/2024	16:23	LB133365
	Lead	4840	5000	97	90 - 110	P	11/08/2024	16:23	LB133365
	Selenium	5130	5000	103	90 - 110	P	11/08/2024	16:23	LB133365
	Silver	1250	1250	100	90 - 110	P	11/08/2024	16:23	LB133365
CCV04	Arsenic	5190	5000	104	90 - 110	P	11/08/2024	17:16	LB133365
	Barium	9360	10000	94	90 - 110	P	11/08/2024	17:16	LB133365
	Cadmium	2420	2500	97	90 - 110	P	11/08/2024	17:16	LB133365
	Chromium	927	1000	93	90 - 110	P	11/08/2024	17:16	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	17:16	LB133365
	Selenium	5360	5000	107	90 - 110	P	11/08/2024	17:16	LB133365
	Silver	1260	1250	101	90 - 110	P	11/08/2024	17:16	LB133365
CCV05	Arsenic	5110	5000	102	90 - 110	P	11/08/2024	18:04	LB133365
	Barium	9290	10000	93	90 - 110	P	11/08/2024	18:04	LB133365
	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	18:04	LB133365
	Chromium	906	1000	91	90 - 110	P	11/08/2024	18:04	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Selenium	5280	5000	106	90 - 110	P	11/08/2024	18:04	LB133365

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1230	1250	99	90 - 110	P	11/08/2024	18:04	LB133365
CCV06	Arsenic	4970	5000	100	90 - 110	P	11/08/2024	18:55	LB133365
	Barium	9460	10000	95	90 - 110	P	11/08/2024	18:55	LB133365
	Cadmium	2360	2500	95	90 - 110	P	11/08/2024	18:55	LB133365
	Chromium	923	1000	92	90 - 110	P	11/08/2024	18:55	LB133365
	Lead	4830	5000	97	90 - 110	P	11/08/2024	18:55	LB133365
	Selenium	5100	5000	102	90 - 110	P	11/08/2024	18:55	LB133365
	Silver	1220	1250	98	90 - 110	P	11/08/2024	18:55	LB133365
CCV07	Arsenic	5060	5000	101	90 - 110	P	11/08/2024	19:47	LB133365
	Barium	9520	10000	95	90 - 110	P	11/08/2024	19:47	LB133365
	Cadmium	2400	2500	96	90 - 110	P	11/08/2024	19:47	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	19:47	LB133365
	Lead	4910	5000	98	90 - 110	P	11/08/2024	19:47	LB133365
	Selenium	5210	5000	104	90 - 110	P	11/08/2024	19:47	LB133365
	Silver	1250	1250	100	90 - 110	P	11/08/2024	19:47	LB133365
CCV08	Arsenic	4620	5000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Barium	9200	10000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Cadmium	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Lead	4790	5000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Selenium	4670	5000	93	90 - 110	P	11/08/2024	20:48	LB133365
	Silver	1190	1250	95	90 - 110	P	11/08/2024	20:48	LB133365
CCV09	Arsenic	4610	5000	92	90 - 110	P	11/08/2024	21:50	LB133365
	Barium	9110	10000	91	90 - 110	P	11/08/2024	21:50	LB133365
	Cadmium	2310	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Chromium	902	1000	90	90 - 110	P	11/08/2024	21:50	LB133365
	Lead	4710	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Selenium	4690	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Silver	1190	1250	95	90 - 110	P	11/08/2024	21:50	LB133365
CCV10	Arsenic	5340	5000	107	90 - 110	P	11/08/2024	23:24	LB133365
	Barium	9550	10000	96	90 - 110	P	11/08/2024	23:24	LB133365
	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	23:24	LB133365
	Chromium	1000	1000	100	90 - 110	P	11/08/2024	23:24	LB133365
	Lead	4980	5000	100	90 - 110	P	11/08/2024	23:24	LB133365

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Selenium	4900	5000	98	90 - 110	P	11/08/2024	23:24	LB133365
	Silver	1270	1250	102	90 - 110	P	11/08/2024	23:24	LB133365

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	996	1000	100	90 - 110	P	11/19/2024	20:06	LB133525
	Barium	497	520	96	90 - 110	P	11/19/2024	20:06	LB133525
	Cadmium	500	510	98	90 - 110	P	11/19/2024	20:06	LB133525
	Chromium	523	520	100	90 - 110	P	11/19/2024	20:06	LB133525
	Lead	990	1000	99	90 - 110	P	11/19/2024	20:06	LB133525
	Selenium	1020	1000	102	90 - 110	P	11/19/2024	20:06	LB133525
	Silver	251	250	100	90 - 110	P	11/19/2024	20:06	LB133525

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	21.7	20.0	108	80 - 120	P	11/19/2024	20:10	LB133525
	Barium	101	100	101	80 - 120	P	11/19/2024	20:10	LB133525
	Cadmium	7.11	6.0	118	80 - 120	P	11/19/2024	20:10	LB133525
	Chromium	10.3	10.0	104	80 - 120	P	11/19/2024	20:10	LB133525
	Lead	11.9	12.0	100	80 - 120	P	11/19/2024	20:10	LB133525
	Selenium	18.5	20.0	92	80 - 120	P	11/19/2024	20:10	LB133525
	Silver	10.4	10.0	104	80 - 120	P	11/19/2024	20:10	LB133525

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4810	5000	96	90 - 110	P	11/19/2024	20:38	LB133525
	Barium	9260	10000	93	90 - 110	P	11/19/2024	20:38	LB133525
	Cadmium	2420	2500	97	90 - 110	P	11/19/2024	20:38	LB133525
	Chromium	1010	1000	101	90 - 110	P	11/19/2024	20:38	LB133525
	Lead	4860	5000	97	90 - 110	P	11/19/2024	20:38	LB133525
	Selenium	4740	5000	95	90 - 110	P	11/19/2024	20:38	LB133525
	Silver	1250	1250	100	90 - 110	P	11/19/2024	20:38	LB133525
CCV02	Arsenic	4710	5000	94	90 - 110	P	11/19/2024	21:36	LB133525
	Barium	10200	10000	102	90 - 110	P	11/19/2024	21:36	LB133525
	Cadmium	2740	2500	109	90 - 110	P	11/19/2024	21:36	LB133525
	Chromium	1090	1000	109	90 - 110	P	11/19/2024	21:36	LB133525
	Lead	5290	5000	106	90 - 110	P	11/19/2024	21:36	LB133525
	Selenium	4570	5000	91	90 - 110	P	11/19/2024	21:36	LB133525
	Silver	1230	1250	98	90 - 110	P	11/19/2024	21:36	LB133525

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.24	0.2	119	40 - 160	CV	11/12/2024	14:39	LB133407
CRI01	Aluminum	98.5	100	98	40 - 160	P	11/14/2024	14:40	LB133457
	Antimony	47.2	50.0	94	40 - 160	P	11/14/2024	14:40	LB133457
	Arsenic	20.6	20.0	103	40 - 160	P	11/14/2024	14:40	LB133457
	Barium	95.9	100	96	40 - 160	P	11/14/2024	14:40	LB133457
	Beryllium	5.63	6.0	94	40 - 160	P	11/14/2024	14:40	LB133457
	Cadmium	6.51	6.0	108	40 - 160	P	11/14/2024	14:40	LB133457
	Calcium	1930	2000	96	40 - 160	P	11/14/2024	14:40	LB133457
	Chromium	9.55	10.0	96	40 - 160	P	11/14/2024	14:40	LB133457
	Cobalt	27.6	30.0	92	40 - 160	P	11/14/2024	14:40	LB133457
	Copper	21.3	20.0	107	40 - 160	P	11/14/2024	14:40	LB133457
	Iron	93.2	100	93	40 - 160	P	11/14/2024	14:40	LB133457
	Lead	11.8	12.0	98	40 - 160	P	11/14/2024	14:40	LB133457
	Magnesium	1920	2000	96	40 - 160	P	11/14/2024	14:40	LB133457
	Manganese	19.6	20.0	98	40 - 160	P	11/14/2024	14:40	LB133457
	Nickel	36.7	40.0	92	40 - 160	P	11/14/2024	14:40	LB133457
	Potassium	1850	2000	92	40 - 160	P	11/14/2024	14:40	LB133457
	Selenium	17.4	20.0	87	40 - 160	P	11/14/2024	14:40	LB133457
	Silver	9.72	10.0	97	40 - 160	P	11/14/2024	14:40	LB133457
	Sodium	1670	2000	83	40 - 160	P	11/14/2024	14:40	LB133457
	Thallium	37.5	40.0	94	40 - 160	P	11/14/2024	14:40	LB133457
	Vanadium	38.4	40.0	96	40 - 160	P	11/14/2024	14:40	LB133457
	Zinc	41.6	40.0	104	40 - 160	P	11/14/2024	14:40	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.19	0.2	95	40 - 160	CV	11/08/2024	10:28	LB133352
CRI01	Arsenic	20.1	20.0	100	40 - 160	P	11/08/2024	14:20	LB133365
	Barium	95.0	100	95	40 - 160	P	11/08/2024	14:20	LB133365
	Cadmium	6.16	6.0	103	40 - 160	P	11/08/2024	14:20	LB133365
	Chromium	9.24	10.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Lead	11.8	12.0	98	40 - 160	P	11/08/2024	14:20	LB133365
	Selenium	19.8	20.0	99	40 - 160	P	11/08/2024	14:20	LB133365
	Silver	10.3	10.0	103	40 - 160	P	11/08/2024	14:20	LB133365
CRI01	Arsenic	21.8	20.0	109	40 - 160	P	11/19/2024	20:19	LB133525
	Barium	99.9	100	100	40 - 160	P	11/19/2024	20:19	LB133525
	Cadmium	7.16	6.0	119	40 - 160	P	11/19/2024	20:19	LB133525
	Chromium	10.5	10.0	105	40 - 160	P	11/19/2024	20:19	LB133525
	Lead	11.3	12.0	94	40 - 160	P	11/19/2024	20:19	LB133525
	Selenium	17.2	20.0	86	40 - 160	P	11/19/2024	20:19	LB133525
	Silver	10.3	10.0	103	40 - 160	P	11/19/2024	20:19	LB133525

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB83	Mercury	0.20	+/-0.20	U	0.20	CV	11/12/2024	14:22	LB133407

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB75	Mercury	0.20	+/-0.20	U	0.20	CV	11/12/2024	14:29	LB133407
CCB76	Mercury	0.20	+/-0.20	U	0.20	CV	11/12/2024	15:07	LB133407
CCB77	Mercury	0.20	+/-0.20	U	0.20	CV	11/12/2024	15:37	LB133407
CCB78	Mercury	0.20	+/-0.20	U	0.20	CV	11/12/2024	16:01	LB133407
CCB79	Mercury	0.20	+/-0.20	U	0.20	CV	11/12/2024	16:27	LB133407

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	11/14/2024	14:36	LB133457
	Antimony	50.0	+/-50.0	U	50.0	P	11/14/2024	14:36	LB133457
	Arsenic	20.0	+/-20.0	U	20.0	P	11/14/2024	14:36	LB133457
	Barium	100	+/-100	U	100	P	11/14/2024	14:36	LB133457
	Beryllium	6.00	+/-6.00	U	6.00	P	11/14/2024	14:36	LB133457
	Cadmium	6.00	+/-6.00	U	6.00	P	11/14/2024	14:36	LB133457
	Calcium	2000	+/-2000	U	2000	P	11/14/2024	14:36	LB133457
	Chromium	10.0	+/-10.0	U	10.0	P	11/14/2024	14:36	LB133457
	Cobalt	30.0	+/-30.0	U	30.0	P	11/14/2024	14:36	LB133457
	Copper	20.0	+/-20.0	U	20.0	P	11/14/2024	14:36	LB133457
	Iron	100	+/-100	U	100	P	11/14/2024	14:36	LB133457
	Lead	12.0	+/-12.0	U	12.0	P	11/14/2024	14:36	LB133457
	Magnesium	2000	+/-2000	U	2000	P	11/14/2024	14:36	LB133457
	Manganese	20.0	+/-20.0	U	20.0	P	11/14/2024	14:36	LB133457
	Nickel	40.0	+/-40.0	U	40.0	P	11/14/2024	14:36	LB133457
	Potassium	2000	+/-2000	U	2000	P	11/14/2024	14:36	LB133457
	Selenium	20.0	+/-20.0	U	20.0	P	11/14/2024	14:36	LB133457
	Silver	10.0	+/-10.0	U	10.0	P	11/14/2024	14:36	LB133457
	Sodium	2000	+/-2000	U	2000	P	11/14/2024	14:36	LB133457
	Thallium	40.0	+/-40.0	U	40.0	P	11/14/2024	14:36	LB133457
	Vanadium	40.0	+/-40.0	U	40.0	P	11/14/2024	14:36	LB133457
	Zinc	40.0	+/-40.0	U	40.0	P	11/14/2024	14:36	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	11/14/2024	15:27	LB133457
	Antimony	50.0	+/-50.0	U	50.0	P	11/14/2024	15:27	LB133457
	Arsenic	20.0	+/-20.0	U	20.0	P	11/14/2024	15:27	LB133457
	Barium	100	+/-100	U	100	P	11/14/2024	15:27	LB133457
	Beryllium	6.00	+/-6.00	U	6.00	P	11/14/2024	15:27	LB133457
	Cadmium	6.00	+/-6.00	U	6.00	P	11/14/2024	15:27	LB133457
	Calcium	2000	+/-2000	U	2000	P	11/14/2024	15:27	LB133457
	Chromium	10.0	+/-10.0	U	10.0	P	11/14/2024	15:27	LB133457
	Cobalt	30.0	+/-30.0	U	30.0	P	11/14/2024	15:27	LB133457
	Copper	20.0	+/-20.0	U	20.0	P	11/14/2024	15:27	LB133457
	Iron	100	+/-100	U	100	P	11/14/2024	15:27	LB133457
	Lead	12.0	+/-12.0	U	12.0	P	11/14/2024	15:27	LB133457
	Magnesium	2000	+/-2000	U	2000	P	11/14/2024	15:27	LB133457
	Manganese	20.0	+/-20.0	U	20.0	P	11/14/2024	15:27	LB133457
	Nickel	40.0	+/-40.0	U	40.0	P	11/14/2024	15:27	LB133457
	Potassium	2000	+/-2000	U	2000	P	11/14/2024	15:27	LB133457
	Selenium	20.0	+/-20.0	U	20.0	P	11/14/2024	15:27	LB133457
	Silver	10.0	+/-10.0	U	10.0	P	11/14/2024	15:27	LB133457
	Sodium	2000	+/-2000	U	2000	P	11/14/2024	15:27	LB133457
	Thallium	40.0	+/-40.0	U	40.0	P	11/14/2024	15:27	LB133457
	Vanadium	40.0	+/-40.0	U	40.0	P	11/14/2024	15:27	LB133457
	Zinc	40.0	+/-40.0	U	40.0	P	11/14/2024	15:27	LB133457
CCB02	Aluminum	100	+/-100	U	100	P	11/14/2024	15:40	LB133457
	Antimony	50.0	+/-50.0	U	50.0	P	11/14/2024	15:40	LB133457
	Arsenic	20.0	+/-20.0	U	20.0	P	11/14/2024	15:40	LB133457
	Barium	100	+/-100	U	100	P	11/14/2024	15:40	LB133457
	Beryllium	6.00	+/-6.00	U	6.00	P	11/14/2024	15:40	LB133457
	Cadmium	6.00	+/-6.00	U	6.00	P	11/14/2024	15:40	LB133457
	Calcium	2000	+/-2000	U	2000	P	11/14/2024	15:40	LB133457
	Chromium	10.0	+/-10.0	U	10.0	P	11/14/2024	15:40	LB133457
	Cobalt	30.0	+/-30.0	U	30.0	P	11/14/2024	15:40	LB133457
	Copper	20.0	+/-20.0	U	20.0	P	11/14/2024	15:40	LB133457
	Iron	100	+/-100	U	100	P	11/14/2024	15:40	LB133457
	Lead	12.0	+/-12.0	U	12.0	P	11/14/2024	15:40	LB133457
	Magnesium	2000	+/-2000	U	2000	P	11/14/2024	15:40	LB133457
	Manganese	20.0	+/-20.0	U	20.0	P	11/14/2024	15:40	LB133457
	Nickel	40.0	+/-40.0	U	40.0	P	11/14/2024	15:40	LB133457
	Potassium	2000	+/-2000	U	2000	P	11/14/2024	15:40	LB133457
	Selenium	20.0	+/-20.0	U	20.0	P	11/14/2024	15:40	LB133457

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	11/14/2024	15:40	LB133457
	Sodium	2000	+/-2000	U	2000	P	11/14/2024	15:40	LB133457
	Thallium	40.0	+/-40.0	U	40.0	P	11/14/2024	15:40	LB133457
	Vanadium	40.0	+/-40.0	U	40.0	P	11/14/2024	15:40	LB133457
	Zinc	40.0	+/-40.0	U	40.0	P	11/14/2024	15:40	LB133457
CCB03	Aluminum	100	+/-100	U	100	P	11/14/2024	16:31	LB133457
	Antimony	50.0	+/-50.0	U	50.0	P	11/14/2024	16:31	LB133457
	Arsenic	20.0	+/-20.0	U	20.0	P	11/14/2024	16:31	LB133457
	Barium	100	+/-100	U	100	P	11/14/2024	16:31	LB133457
	Beryllium	6.00	+/-6.00	U	6.00	P	11/14/2024	16:31	LB133457
	Cadmium	6.00	+/-6.00	U	6.00	P	11/14/2024	16:31	LB133457
	Calcium	2000	+/-2000	U	2000	P	11/14/2024	16:31	LB133457
	Chromium	10.0	+/-10.0	U	10.0	P	11/14/2024	16:31	LB133457
	Cobalt	30.0	+/-30.0	U	30.0	P	11/14/2024	16:31	LB133457
	Copper	20.0	+/-20.0	U	20.0	P	11/14/2024	16:31	LB133457
	Iron	100	+/-100	U	100	P	11/14/2024	16:31	LB133457
	Lead	12.0	+/-12.0	U	12.0	P	11/14/2024	16:31	LB133457
	Magnesium	2000	+/-2000	U	2000	P	11/14/2024	16:31	LB133457
	Manganese	20.0	+/-20.0	U	20.0	P	11/14/2024	16:31	LB133457
	Nickel	40.0	+/-40.0	U	40.0	P	11/14/2024	16:31	LB133457
	Potassium	2000	+/-2000	U	2000	P	11/14/2024	16:31	LB133457
	Selenium	20.0	+/-20.0	U	20.0	P	11/14/2024	16:31	LB133457
	Silver	10.0	+/-10.0	U	10.0	P	11/14/2024	16:31	LB133457
	Sodium	2000	+/-2000	U	2000	P	11/14/2024	16:31	LB133457
	Thallium	40.0	+/-40.0	U	40.0	P	11/14/2024	16:31	LB133457
	Vanadium	40.0	+/-40.0	U	40.0	P	11/14/2024	16:31	LB133457
	Zinc	40.0	+/-40.0	U	40.0	P	11/14/2024	16:31	LB133457
CCB04	Aluminum	100	+/-100	U	100	P	11/14/2024	17:27	LB133457
	Antimony	50.0	+/-50.0	U	50.0	P	11/14/2024	17:27	LB133457
	Arsenic	20.0	+/-20.0	U	20.0	P	11/14/2024	17:27	LB133457
	Barium	100	+/-100	U	100	P	11/14/2024	17:27	LB133457
	Beryllium	6.00	+/-6.00	U	6.00	P	11/14/2024	17:27	LB133457
	Cadmium	6.00	+/-6.00	U	6.00	P	11/14/2024	17:27	LB133457
	Calcium	2000	+/-2000	U	2000	P	11/14/2024	17:27	LB133457
	Chromium	10.0	+/-10.0	U	10.0	P	11/14/2024	17:27	LB133457
	Cobalt	30.0	+/-30.0	U	30.0	P	11/14/2024	17:27	LB133457
	Copper	20.0	+/-20.0	U	20.0	P	11/14/2024	17:27	LB133457
	Iron	100	+/-100	U	100	P	11/14/2024	17:27	LB133457
	Lead	12.0	+/-12.0	U	12.0	P	11/14/2024	17:27	LB133457

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	11/14/2024	17:27	LB133457
	Manganese	20.0	+/-20.0	U	20.0	P	11/14/2024	17:27	LB133457
	Nickel	40.0	+/-40.0	U	40.0	P	11/14/2024	17:27	LB133457
	Potassium	2000	+/-2000	U	2000	P	11/14/2024	17:27	LB133457
	Selenium	20.0	+/-20.0	U	20.0	P	11/14/2024	17:27	LB133457
	Silver	10.0	+/-10.0	U	10.0	P	11/14/2024	17:27	LB133457
	Sodium	2000	+/-2000	U	2000	P	11/14/2024	17:27	LB133457
	Thallium	40.0	+/-40.0	U	40.0	P	11/14/2024	17:27	LB133457
	Vanadium	40.0	+/-40.0	U	40.0	P	11/14/2024	17:27	LB133457
	Zinc	40.0	+/-40.0	U	40.0	P	11/14/2024	17:27	LB133457
CCB05	Aluminum	100	+/-100	U	100	P	11/14/2024	18:17	LB133457
	Antimony	50.0	+/-50.0	U	50.0	P	11/14/2024	18:17	LB133457
	Arsenic	20.0	+/-20.0	U	20.0	P	11/14/2024	18:17	LB133457
	Barium	100	+/-100	U	100	P	11/14/2024	18:17	LB133457
	Beryllium	6.00	+/-6.00	U	6.00	P	11/14/2024	18:17	LB133457
	Cadmium	6.00	+/-6.00	U	6.00	P	11/14/2024	18:17	LB133457
	Calcium	2000	+/-2000	U	2000	P	11/14/2024	18:17	LB133457
	Chromium	10.0	+/-10.0	U	10.0	P	11/14/2024	18:17	LB133457
	Cobalt	30.0	+/-30.0	U	30.0	P	11/14/2024	18:17	LB133457
	Copper	20.0	+/-20.0	U	20.0	P	11/14/2024	18:17	LB133457
	Iron	100	+/-100	U	100	P	11/14/2024	18:17	LB133457
	Lead	12.0	+/-12.0	U	12.0	P	11/14/2024	18:17	LB133457
	Magnesium	2000	+/-2000	U	2000	P	11/14/2024	18:17	LB133457
	Manganese	20.0	+/-20.0	U	20.0	P	11/14/2024	18:17	LB133457
	Nickel	40.0	+/-40.0	U	40.0	P	11/14/2024	18:17	LB133457
	Potassium	2000	+/-2000	U	2000	P	11/14/2024	18:17	LB133457
	Selenium	20.0	+/-20.0	U	20.0	P	11/14/2024	18:17	LB133457
	Silver	10.0	+/-10.0	U	10.0	P	11/14/2024	18:17	LB133457
	Sodium	2000	+/-2000	U	2000	P	11/14/2024	18:17	LB133457
	Thallium	40.0	+/-40.0	U	40.0	P	11/14/2024	18:17	LB133457
	Vanadium	40.0	+/-40.0	U	40.0	P	11/14/2024	18:17	LB133457
	Zinc	40.0	+/-40.0	U	40.0	P	11/14/2024	18:17	LB133457
CCB06	Aluminum	100	+/-100	U	100	P	11/14/2024	19:07	LB133457
	Antimony	50.0	+/-50.0	U	50.0	P	11/14/2024	19:07	LB133457
	Arsenic	20.0	+/-20.0	U	20.0	P	11/14/2024	19:07	LB133457
	Barium	100	+/-100	U	100	P	11/14/2024	19:07	LB133457
	Beryllium	6.00	+/-6.00	U	6.00	P	11/14/2024	19:07	LB133457
	Cadmium	6.00	+/-6.00	U	6.00	P	11/14/2024	19:07	LB133457
	Calcium	2000	+/-2000	U	2000	P	11/14/2024	19:07	LB133457

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	11/14/2024	19:07	LB133457
	Cobalt	30.0	+/-30.0	U	30.0	P	11/14/2024	19:07	LB133457
	Copper	20.0	+/-20.0	U	20.0	P	11/14/2024	19:07	LB133457
	Iron	100	+/-100	U	100	P	11/14/2024	19:07	LB133457
	Lead	12.0	+/-12.0	U	12.0	P	11/14/2024	19:07	LB133457
	Magnesium	2000	+/-2000	U	2000	P	11/14/2024	19:07	LB133457
	Manganese	20.0	+/-20.0	U	20.0	P	11/14/2024	19:07	LB133457
	Nickel	40.0	+/-40.0	U	40.0	P	11/14/2024	19:07	LB133457
	Potassium	2000	+/-2000	U	2000	P	11/14/2024	19:07	LB133457
	Selenium	20.0	+/-20.0	U	20.0	P	11/14/2024	19:07	LB133457
	Silver	10.0	+/-10.0	U	10.0	P	11/14/2024	19:07	LB133457
	Sodium	2000	+/-2000	U	2000	P	11/14/2024	19:07	LB133457
	Thallium	40.0	+/-40.0	U	40.0	P	11/14/2024	19:07	LB133457
	Vanadium	40.0	+/-40.0	U	40.0	P	11/14/2024	19:07	LB133457
	Zinc	40.0	+/-40.0	U	40.0	P	11/14/2024	19:07	LB133457
CCB07	Aluminum	100	+/-100	U	100	P	11/14/2024	19:59	LB133457
	Antimony	50.0	+/-50.0	U	50.0	P	11/14/2024	19:59	LB133457
	Arsenic	20.0	+/-20.0	U	20.0	P	11/14/2024	19:59	LB133457
	Barium	100	+/-100	U	100	P	11/14/2024	19:59	LB133457
	Beryllium	6.00	+/-6.00	U	6.00	P	11/14/2024	19:59	LB133457
	Cadmium	6.00	+/-6.00	U	6.00	P	11/14/2024	19:59	LB133457
	Calcium	2000	+/-2000	U	2000	P	11/14/2024	19:59	LB133457
	Chromium	10.0	+/-10.0	U	10.0	P	11/14/2024	19:59	LB133457
	Cobalt	30.0	+/-30.0	U	30.0	P	11/14/2024	19:59	LB133457
	Copper	20.0	+/-20.0	U	20.0	P	11/14/2024	19:59	LB133457
	Iron	100	+/-100	U	100	P	11/14/2024	19:59	LB133457
	Lead	12.0	+/-12.0	U	12.0	P	11/14/2024	19:59	LB133457
	Magnesium	2000	+/-2000	U	2000	P	11/14/2024	19:59	LB133457
	Manganese	20.0	+/-20.0	U	20.0	P	11/14/2024	19:59	LB133457
	Nickel	40.0	+/-40.0	U	40.0	P	11/14/2024	19:59	LB133457
	Potassium	2000	+/-2000	U	2000	P	11/14/2024	19:59	LB133457
	Selenium	20.0	+/-20.0	U	20.0	P	11/14/2024	19:59	LB133457
	Silver	10.0	+/-10.0	U	10.0	P	11/14/2024	19:59	LB133457
	Sodium	2000	+/-2000	U	2000	P	11/14/2024	19:59	LB133457
	Thallium	40.0	+/-40.0	U	40.0	P	11/14/2024	19:59	LB133457
	Vanadium	40.0	+/-40.0	U	40.0	P	11/14/2024	19:59	LB133457
	Zinc	40.0	+/-40.0	U	40.0	P	11/14/2024	19:59	LB133457
CCB08	Aluminum	100	+/-100	U	100	P	11/14/2024	21:42	LB133457
	Antimony	50.0	+/-50.0	U	50.0	P	11/14/2024	21:42	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	11/14/2024	21:42	LB133457
	Barium	100	+/-100	U	100	P	11/14/2024	21:42	LB133457
	Beryllium	6.00	+/-6.00	U	6.00	P	11/14/2024	21:42	LB133457
	Cadmium	6.00	+/-6.00	U	6.00	P	11/14/2024	21:42	LB133457
	Calcium	2000	+/-2000	U	2000	P	11/14/2024	21:42	LB133457
	Chromium	10.0	+/-10.0	U	10.0	P	11/14/2024	21:42	LB133457
	Cobalt	30.0	+/-30.0	U	30.0	P	11/14/2024	21:42	LB133457
	Copper	20.0	+/-20.0	U	20.0	P	11/14/2024	21:42	LB133457
	Iron	100	+/-100	U	100	P	11/14/2024	21:42	LB133457
	Lead	12.0	+/-12.0	U	12.0	P	11/14/2024	21:42	LB133457
	Magnesium	2000	+/-2000	U	2000	P	11/14/2024	21:42	LB133457
	Manganese	20.0	+/-20.0	U	20.0	P	11/14/2024	21:42	LB133457
	Nickel	40.0	+/-40.0	U	40.0	P	11/14/2024	21:42	LB133457
	Potassium	2000	+/-2000	U	2000	P	11/14/2024	21:42	LB133457
	Selenium	20.0	+/-20.0	U	20.0	P	11/14/2024	21:42	LB133457
	Silver	10.0	+/-10.0	U	10.0	P	11/14/2024	21:42	LB133457
	Sodium	2000	+/-2000	U	2000	P	11/14/2024	21:42	LB133457
	Thallium	40.0	+/-40.0	U	40.0	P	11/14/2024	21:42	LB133457
	Vanadium	40.0	+/-40.0	U	40.0	P	11/14/2024	21:42	LB133457
	Zinc	40.0	+/-40.0	U	40.0	P	11/14/2024	21:42	LB133457
CCB09	Aluminum	100	+/-100	U	100	P	11/14/2024	22:08	LB133457
	Antimony	50.0	+/-50.0	U	50.0	P	11/14/2024	22:08	LB133457
	Arsenic	20.0	+/-20.0	U	20.0	P	11/14/2024	22:08	LB133457
	Barium	100	+/-100	U	100	P	11/14/2024	22:08	LB133457
	Beryllium	6.00	+/-6.00	U	6.00	P	11/14/2024	22:08	LB133457
	Cadmium	6.00	+/-6.00	U	6.00	P	11/14/2024	22:08	LB133457
	Calcium	2000	+/-2000	U	2000	P	11/14/2024	22:08	LB133457
	Chromium	10.0	+/-10.0	U	10.0	P	11/14/2024	22:08	LB133457
	Cobalt	30.0	+/-30.0	U	30.0	P	11/14/2024	22:08	LB133457
	Copper	20.0	+/-20.0	U	20.0	P	11/14/2024	22:08	LB133457
	Iron	100	+/-100	U	100	P	11/14/2024	22:08	LB133457
	Lead	12.0	+/-12.0	U	12.0	P	11/14/2024	22:08	LB133457
	Magnesium	2000	+/-2000	U	2000	P	11/14/2024	22:08	LB133457
	Manganese	20.0	+/-20.0	U	20.0	P	11/14/2024	22:08	LB133457
	Nickel	40.0	+/-40.0	U	40.0	P	11/14/2024	22:08	LB133457
	Potassium	2000	+/-2000	U	2000	P	11/14/2024	22:08	LB133457
	Selenium	20.0	+/-20.0	U	20.0	P	11/14/2024	22:08	LB133457
	Silver	10.0	+/-10.0	U	10.0	P	11/14/2024	22:08	LB133457
	Sodium	2000	+/-2000	U	2000	P	11/14/2024	22:08	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	11/14/2024	22:08	LB133457
	Vanadium	40.0	+/-40.0	U	40.0	P	11/14/2024	22:08	LB133457
	Zinc	40.0	+/-40.0	U	40.0	P	11/14/2024	22:08	LB133457
CCB10	Aluminum	100	+/-100	U	100	P	11/14/2024	23:03	LB133457
	Antimony	50.0	+/-50.0	U	50.0	P	11/14/2024	23:03	LB133457
	Arsenic	20.0	+/-20.0	U	20.0	P	11/14/2024	23:03	LB133457
	Barium	100	+/-100	U	100	P	11/14/2024	23:03	LB133457
	Beryllium	6.00	+/-6.00	U	6.00	P	11/14/2024	23:03	LB133457
	Cadmium	6.00	+/-6.00	U	6.00	P	11/14/2024	23:03	LB133457
	Calcium	2000	+/-2000	U	2000	P	11/14/2024	23:03	LB133457
	Chromium	10.0	+/-10.0	U	10.0	P	11/14/2024	23:03	LB133457
	Cobalt	30.0	+/-30.0	U	30.0	P	11/14/2024	23:03	LB133457
	Copper	20.0	+/-20.0	U	20.0	P	11/14/2024	23:03	LB133457
	Iron	100	+/-100	U	100	P	11/14/2024	23:03	LB133457
	Lead	12.0	+/-12.0	U	12.0	P	11/14/2024	23:03	LB133457
	Magnesium	2000	+/-2000	U	2000	P	11/14/2024	23:03	LB133457
	Manganese	20.0	+/-20.0	U	20.0	P	11/14/2024	23:03	LB133457
	Nickel	40.0	+/-40.0	U	40.0	P	11/14/2024	23:03	LB133457
	Potassium	2000	+/-2000	U	2000	P	11/14/2024	23:03	LB133457
	Selenium	20.0	+/-20.0	U	20.0	P	11/14/2024	23:03	LB133457
	Silver	10.0	+/-10.0	U	10.0	P	11/14/2024	23:03	LB133457
	Sodium	2000	+/-2000	U	2000	P	11/14/2024	23:03	LB133457
	Thallium	40.0	+/-40.0	U	40.0	P	11/14/2024	23:03	LB133457
	Vanadium	40.0	+/-40.0	U	40.0	P	11/14/2024	23:03	LB133457
	Zinc	40.0	+/-40.0	U	40.0	P	11/14/2024	23:03	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB75	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	10:21	LB133352

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB51	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	10:25	LB133352
CCB52	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	10:56	LB133352
CCB53	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	11:23	LB133352
CCB54	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	11:34	LB133352

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	14:16	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:16	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:16	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:16	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	14:16	LB133365

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	14:50	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:50	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:50	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:50	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	14:50	LB133365
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	15:33	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	15:33	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	15:33	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	15:33	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	15:33	LB133365
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	16:28	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	16:28	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	16:28	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	16:28	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	16:28	LB133365
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	17:22	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	17:22	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	17:22	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	17:22	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	17:22	LB133365
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	18:08	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:08	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	18:08	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:08	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	18:08	LB133365
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	18:59	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:59	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	18:59	LB133365

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:59	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	18:59	LB133365
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	19:51	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	19:51	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	19:51	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	19:51	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	19:51	LB133365
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	20:57	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	20:57	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	20:57	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	20:57	LB133365
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	21:55	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	21:55	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	21:55	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	21:55	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	21:55	LB133365
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	23:35	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	23:35	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	23:35	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	23:35	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	23:35	LB133365

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	20:14	LB133525
	Barium	100	+/-100	U	100	P	11/19/2024	20:14	LB133525
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	20:14	LB133525
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	20:14	LB133525
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	20:14	LB133525
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	20:14	LB133525
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	20:14	LB133525

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	20:47	LB133525
	Barium	100	+/-100	U	100	P	11/19/2024	20:47	LB133525
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	20:47	LB133525
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	20:47	LB133525
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	20:47	LB133525
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	20:47	LB133525
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	20:47	LB133525
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	21:42	LB133525
	Barium	100	+/-100	U	100	P	11/19/2024	21:42	LB133525
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	21:42	LB133525
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	21:42	LB133525
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	21:42	LB133525
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	21:42	LB133525
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	21:42	LB133525

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164892BL		**WATER**		**Batch Number:**	**PB164892**		**Prep Date:**	**11/11/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	11/12/2024	14:49	LB133407
Sample ID	**Analyte**	**Result (ug/L)**	**Acceptance Limit**	**Conc Qual**	**CRQL ug/L**	**M**	**Analysis Date**	**Analysis Time**	**Run**
PB164892TB		**WATER**		**Batch Number:**	**PB164892**		**Prep Date:**	**11/11/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	11/12/2024	16:06	LB133407

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164869BL		**WATER**		**Batch Number:**	**PB164869**		**Prep Date:**	**11/11/2024**	
	Aluminum	50.0	<50.0	U	50.0	P	11/14/2024	16:05	LB133457
	Antimony	25.0	<25.0	U	25.0	P	11/14/2024	16:05	LB133457
	Arsenic	10.0	<10.0	U	10.0	P	11/14/2024	16:05	LB133457
	Barium	50.0	<50.0	U	50.0	P	11/14/2024	16:05	LB133457
	Beryllium	3.00	<3.00	U	3.00	P	11/14/2024	16:05	LB133457
	Cadmium	3.00	<3.00	U	3.00	P	11/14/2024	16:05	LB133457
	Calcium	1000	<1000	U	1000	P	11/14/2024	16:05	LB133457
	Chromium	5.00	<5.00	U	5.00	P	11/14/2024	16:05	LB133457
	Cobalt	15.0	<15.0	U	15.0	P	11/14/2024	16:05	LB133457
	Copper	10.0	<10.0	U	10.0	P	11/14/2024	16:05	LB133457
	Iron	50.0	<50.0	U	50.0	P	11/14/2024	16:05	LB133457
	Lead	6.00	<6.00	U	6.00	P	11/14/2024	16:05	LB133457
	Magnesium	1000	<1000	U	1000	P	11/14/2024	16:05	LB133457
	Manganese	10.0	<10.0	U	10.0	P	11/14/2024	16:05	LB133457
	Nickel	20.0	<20.0	U	20.0	P	11/14/2024	16:05	LB133457
	Potassium	1000	<1000	U	1000	P	11/14/2024	16:05	LB133457
	Selenium	10.0	<10.0	U	10.0	P	11/14/2024	16:05	LB133457
	Silver	5.00	<5.00	U	5.00	P	11/14/2024	16:05	LB133457
	Sodium	1000	<1000	U	1000	P	11/14/2024	16:05	LB133457
	Thallium	20.0	<20.0	U	20.0	P	11/14/2024	16:05	LB133457
	Vanadium	20.0	<20.0	U	20.0	P	11/14/2024	16:05	LB133457
	Zinc	20.0	<20.0	U	20.0	P	11/14/2024	16:05	LB133457

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164869TB		**WATER**		**Batch Number:**	**PB164869**		**Prep Date:**	**11/11/2024**	
	Aluminum	50.0	<50.0	U	50.0	P	11/14/2024	16:01	LB133457
	Antimony	25.0	<25.0	U	25.0	P	11/14/2024	16:01	LB133457
	Arsenic	10.0	<10.0	U	10.0	P	11/14/2024	16:01	LB133457
	Barium	50.0	<50.0	U	50.0	P	11/14/2024	16:01	LB133457
	Beryllium	3.00	<3.00	U	3.00	P	11/14/2024	16:01	LB133457
	Cadmium	3.00	<3.00	U	3.00	P	11/14/2024	16:01	LB133457
	Calcium	1000	<1000	U	1000	P	11/14/2024	16:01	LB133457
	Chromium	5.00	<5.00	U	5.00	P	11/14/2024	16:01	LB133457
	Cobalt	15.0	<15.0	U	15.0	P	11/14/2024	16:01	LB133457
	Copper	10.0	<10.0	U	10.0	P	11/14/2024	16:01	LB133457
	Iron	50.0	<50.0	U	50.0	P	11/14/2024	16:01	LB133457
	Lead	6.00	<6.00	U	6.00	P	11/14/2024	16:01	LB133457
	Magnesium	1000	<1000	U	1000	P	11/14/2024	16:01	LB133457
	Manganese	10.0	<10.0	U	10.0	P	11/14/2024	16:01	LB133457
	Nickel	20.0	<20.0	U	20.0	P	11/14/2024	16:01	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Instrument: P4

Potassium	1000	<1000	U	1000	P	11/14/2024	16:01	LB133457
Selenium	10.0	<10.0	U	10.0	P	11/14/2024	16:01	LB133457
Silver	5.00	<5.00	U	5.00	P	11/14/2024	16:01	LB133457
Sodium	1000	<1000	U	1000	P	11/14/2024	16:01	LB133457
Thallium	20.0	<20.0	U	20.0	P	11/14/2024	16:01	LB133457
Vanadium	20.0	<20.0	U	20.0	P	11/14/2024	16:01	LB133457
Zinc	20.0	<20.0	U	20.0	P	11/14/2024	16:01	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164694TB		**WATER**		**Batch Number:**	**PB164791**		**Prep Date:**	**11/07/2024**	
	Mercury	2.00	<2.00	U	2.00	CV	11/08/2024	11:25	LB133352

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164791BL		**WATER**		**Batch Number:**	**PB164791**		**Prep Date:**	**11/07/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	11/08/2024	10:38	LB133352

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164694TB		**WATER**		**Batch Number:**	**PB164768**		**Prep Date:**	**11/07/2024**	
	Arsenic	100	<100	U	100	P	11/08/2024	16:54	LB133365
	Barium	500	<500	U	500	P	11/08/2024	16:54	LB133365
	Cadmium	30.0	<30.0	U	30.0	P	11/08/2024	16:54	LB133365
	Chromium	50.0	<50.0	U	50.0	P	11/08/2024	16:54	LB133365
	Lead	60.0	<60.0	U	60.0	P	11/08/2024	16:54	LB133365
	Selenium	100	<100	U	100	P	11/08/2024	16:54	LB133365
	Silver	50.0	<50.0	U	50.0	P	11/08/2024	16:54	LB133365

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164768BL		**WATER**		**Batch Number:**	**PB164768**		**Prep Date:**	**11/07/2024**	
	Arsenic	100	<100	U	100	P	11/08/2024	16:59	LB133365
	Barium	500	<500	U	500	P	11/08/2024	16:59	LB133365
	Cadmium	30.0	<30.0	U	30.0	P	11/08/2024	16:59	LB133365
	Chromium	50.0	<50.0	U	50.0	P	11/08/2024	16:59	LB133365
	Lead	60.0	<60.0	U	60.0	P	11/08/2024	16:59	LB133365
	Selenium	100	<100	U	100	P	11/08/2024	16:59	LB133365
	Silver	50.0	<50.0	U	50.0	P	11/08/2024	16:59	LB133365

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	257000	255000	101	216000	294000	11/14/2024	14:54	LB133457
	Antimony	-0.36			-50	50	11/14/2024	14:54	LB133457
	Arsenic	-1.10			-20	20	11/14/2024	14:54	LB133457
	Barium	3.24	6.0	54	-94	106	11/14/2024	14:54	LB133457
	Beryllium	1.25			-6	6	11/14/2024	14:54	LB133457
	Cadmium	6.64	1.0	664	-5	7	11/14/2024	14:54	LB133457
	Calcium	244000	245000	100	208000	282000	11/14/2024	14:54	LB133457
	Chromium	55.5	52.0	107	42	62	11/14/2024	14:54	LB133457
	Cobalt	2.07			-30	30	11/14/2024	14:54	LB133457
	Copper	-4.72	2.0	236	-18	22	11/14/2024	14:54	LB133457
	Iron	98700	101000	98	85600	116500	11/14/2024	14:54	LB133457
	Lead	8.61			-12	12	11/14/2024	14:54	LB133457
	Magnesium	271000	255000	106	216000	294000	11/14/2024	14:54	LB133457
	Manganese	5.69	7.0	81	-13	27	11/14/2024	14:54	LB133457
	Nickel	2.90	2.0	145	-38	42	11/14/2024	14:54	LB133457
	Potassium	24.4			0	0	11/14/2024	14:54	LB133457
	Selenium	-16.4			-20	20	11/14/2024	14:54	LB133457
	Silver	2.63			-10	10	11/14/2024	14:54	LB133457
	Sodium	34.7			0	0	11/14/2024	14:54	LB133457
	Thallium	12.7			-40	40	11/14/2024	14:54	LB133457
	Vanadium	6.61			-40	40	11/14/2024	14:54	LB133457
	Zinc	6.48			-40	40	11/14/2024	14:54	LB133457
ICSAB01	Aluminum	271000	247000	110	209000	285000	11/14/2024	15:18	LB133457
	Antimony	629	618	102	525	711	11/14/2024	15:18	LB133457
	Arsenic	117	104	112	88.4	120	11/14/2024	15:18	LB133457
	Barium	535	537	100	437	637	11/14/2024	15:18	LB133457
	Beryllium	521	495	105	420	570	11/14/2024	15:18	LB133457
	Cadmium	1020	972	105	826	1120	11/14/2024	15:18	LB133457
	Calcium	254000	235000	108	199000	271000	11/14/2024	15:18	LB133457
	Chromium	568	542	105	460	624	11/14/2024	15:18	LB133457
	Cobalt	516	476	108	404	548	11/14/2024	15:18	LB133457
	Copper	493	511	96	434	588	11/14/2024	15:18	LB133457
	Iron	103000	99300	104	84400	114500	11/14/2024	15:18	LB133457
	Lead	56.9	49.0	116	37	61	11/14/2024	15:18	LB133457
	Magnesium	279000	248000	112	210000	286000	11/14/2024	15:18	LB133457
	Manganese	515	507	102	430	584	11/14/2024	15:18	LB133457
	Nickel	1020	954	107	810	1100	11/14/2024	15:18	LB133457
	Potassium	-0.81			0	0	11/14/2024	15:18	LB133457
	Selenium	35.8	46.0	78	26	66	11/14/2024	15:18	LB133457
	Silver	206	201	102	170	232	11/14/2024	15:18	LB133457
	Sodium	-5.35			0	0	11/14/2024	15:18	LB133457
	Thallium	103	108	95	68	148	11/14/2024	15:18	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	511	491	104	417	565	11/14/2024	15:18	LB133457
	Zinc	852	952	90	809	1095	11/14/2024	15:18	LB133457

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	5.52			-20	20	11/08/2024	14:24	LB133365
	Barium	1.84	6.0	31	-94	106	11/08/2024	14:24	LB133365
	Cadmium	6.11	1.0	611	-5	7	11/08/2024	14:24	LB133365
	Chromium	54.3	52.0	104	42	62	11/08/2024	14:24	LB133365
	Lead	9.97			-12	12	11/08/2024	14:24	LB133365
	Selenium	-14.4			-20	20	11/08/2024	14:24	LB133365
	Silver	-0.087			-10	10	11/08/2024	14:24	LB133365
ICSAB01	Arsenic	115	104	111	88.4	120	11/08/2024	14:30	LB133365
	Barium	496	537	92	437	637	11/08/2024	14:30	LB133365
	Cadmium	979	972	101	826	1120	11/08/2024	14:30	LB133365
	Chromium	521	542	96	460	624	11/08/2024	14:30	LB133365
	Lead	57.3	49.0	117	37	61	11/08/2024	14:30	LB133365
	Selenium	31.2	46.0	68	26	66	11/08/2024	14:30	LB133365
	Silver	198	201	98	170	232	11/08/2024	14:30	LB133365
ICSA01	Arsenic	7.44			-20	20	11/19/2024	20:23	LB133525
	Barium	4.72	6.0	79	-94	106	11/19/2024	20:23	LB133525
	Cadmium	5.53	1.0	553	-5	7	11/19/2024	20:23	LB133525
	Chromium	59.7	52.0	115	42	62	11/19/2024	20:23	LB133525
	Lead	9.28			-12	12	11/19/2024	20:23	LB133525
	Selenium	-19.2			-20	20	11/19/2024	20:23	LB133525
	Silver	-0.77			-10	10	11/19/2024	20:23	LB133525
ICSAB01	Arsenic	115	104	111	88.4	120	11/19/2024	20:27	LB133525
	Barium	493	537	92	437	637	11/19/2024	20:27	LB133525
	Cadmium	1030	972	106	826	1120	11/19/2024	20:27	LB133525
	Chromium	583	542	108	460	624	11/19/2024	20:27	LB133525
	Lead	57.7	49.0	118	37	61	11/19/2024	20:27	LB133525
	Selenium	30.0	46.0	65	26	66	11/19/2024	20:27	LB133525
	Silver	202	201	100	170	232	11/19/2024	20:27	LB133525

METAL QC DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

contract: WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

matrix: Water **sample id:** P4722-15 **client id:** WC-3(0-6)MS

Percent Solids for Sample: NA **Spiked ID:** P4722-15MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	983		29.5	J	1000	95		P
Antimony	ug/L	75 - 125	390		2.70	J	400	97		P
Arsenic	ug/L	75 - 125	396		10.0	U	400	99		P
Barium	ug/L	75 - 125	172		76.6		100	96		P
Beryllium	ug/L	75 - 125	93.8		3.00	U	100	94		P
Cadmium	ug/L	75 - 125	89.8		0.32	J	100	90		P
Calcium	ug/L	75 - 125	165000		167000		500	-452		P
Chromium	ug/L	75 - 125	188		1.28	J	200	94		P
Cobalt	ug/L	75 - 125	91.5		15.0	U	100	92		P
Copper	ug/L	75 - 125	149		10.4		150	92		P
Iron	ug/L	75 - 125	1510		96.2		1500	94		P
Lead	ug/L	75 - 125	451		12.8		500	88		P
Magnesium	ug/L	75 - 125	7610		6910		1000	70		P
Manganese	ug/L	75 - 125	116		21.7		100	94		P
Mercury	ug/L	75 - 125	4.03		0.20	U	4.0	101		CV
Nickel	ug/L	75 - 125	231		3.85	J	250	91		P
Potassium	ug/L	75 - 125	8110		3330		5000	96		P
Selenium	ug/L	75 - 125	927		10.0	U	1000	93		P
Silver	ug/L	75 - 125	35.7		5.00	U	37.5	95		P
Sodium	ug/L	75 - 125	20300		19600		1500	47		P
Thallium	ug/L	75 - 125	869		20.0	U	1000	87		P
Vanadium	ug/L	75 - 125	145		20.0	U	150	97		P
Zinc	ug/L	75 - 125	152		55.1		100	96		P

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

contract: WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

matrix: Water **sample id:** P4722-15 **client id:** WC-3(0-6)MSD

Percent Solids for Sample: NA **Spiked ID:** P4722-15MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1010		29.5	J	1000	99		P
Antimony	ug/L	75 - 125	405		2.70	J	400	101		P
Arsenic	ug/L	75 - 125	414		10.0	U	400	104		P
Barium	ug/L	75 - 125	176		76.6		100	99		P
Beryllium	ug/L	75 - 125	96.0		3.00	U	100	96		P
Cadmium	ug/L	75 - 125	93.5		0.32	J	100	93		P
Calcium	ug/L	75 - 125	167000		167000		500	16		P
Chromium	ug/L	75 - 125	195		1.28	J	200	97		P
Cobalt	ug/L	75 - 125	94.9		15.0	U	100	95		P
Copper	ug/L	75 - 125	155		10.4		150	97		P
Iron	ug/L	75 - 125	1580		96.2		1500	99		P
Lead	ug/L	75 - 125	468		12.8		500	91		P
Magnesium	ug/L	75 - 125	7740		6910		1000	83		P
Manganese	ug/L	75 - 125	119		21.7		100	98		P
Mercury	ug/L	75 - 125	4.41		0.20	U	4.0	110		CV
Nickel	ug/L	75 - 125	240		3.85	J	250	94		P
Potassium	ug/L	75 - 125	8410		3330		5000	102		P
Selenium	ug/L	75 - 125	982		10.0	U	1000	98		P
Silver	ug/L	75 - 125	37.1		5.00	U	37.5	99		P
Sodium	ug/L	75 - 125	20900		19600		1500	88		P
Thallium	ug/L	75 - 125	925		20.0	U	1000	92		P
Vanadium	ug/L	75 - 125	150		20.0	U	150	100		P
Zinc	ug/L	75 - 125	157		55.1		100	102		P

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

contract: WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

matrix: Water **sample id:** P4718-03 **client id:** WB-307-SB02MS

Percent Solids for Sample: NA **Spiked ID:** P4718-03MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4010		100	U	4000	100		P
Barium	ug/L	75 - 125	2780		1850		1000	94		P
Cadmium	ug/L	75 - 125	1120		30.0	U	1000	112		P
Chromium	ug/L	75 - 125	2340		16.1	J	2000	116		P
Lead	ug/L	75 - 125	5130		60.0	U	5000	103		P
Mercury	ug/L	75 - 125	33.6		2.00	U	40.0	84		CV
Selenium	ug/L	75 - 125	9590		100	U	10000	96		P
Silver	ug/L	75 - 125	362		50.0	U	380	95		P

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

contract: WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

matrix: Water **sample id:** P4718-03 **client id:** WB-307-SB02MSD

Percent Solids for Sample: NA **Spiked ID:** P4718-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3850		100	U	4000	96		P
Barium	ug/L	75 - 125	2560		1850		1000	72	N	P
Cadmium	ug/L	75 - 125	1080		30.0	U	1000	108		P
Chromium	ug/L	75 - 125	2270		16.1	J	2000	113		P
Lead	ug/L	75 - 125	4900		60.0	U	5000	98		P
Mercury	ug/L	75 - 125	40.7		2.00	U	40.0	102		CV
Selenium	ug/L	75 - 125	9210		100	U	10000	92		P
Silver	ug/L	75 - 125	343		50.0	U	380	90		P

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 5b -

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Matrix: Water **Level:** LOW **Client ID:** WB-307-SB02A

Sample ID: P4718-03 **Spiked ID:** P4718-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	2690		1850		1000	84		P

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Matrix: Water **Sample ID:** P4722-15 **Client ID:** WC-3(0-6)DUP

Percent Solids for Sample: NA **Duplicate ID** P4722-15DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	29.5	J	29.1	J	1		P
Antimony	ug/L	20	2.70	J	3.27	J	19		P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	76.6		76.6		0		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	0.32	J	0.36	J	14		P
Calcium	ug/L	20	167000		167000		0		P
Chromium	ug/L	20	1.28	J	1.41	J	10		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.4		10.6		2		P
Iron	ug/L	20	96.2		95.2		1		P
Lead	ug/L	20	12.8		13.3		4		P
Magnesium	ug/L	20	6910		6840		1		P
Manganese	ug/L	20	21.7		21.7		0		P
Mercury	ug/L	20	0.20	U	0.20	U			CV
Nickel	ug/L	20	3.85	J	3.81	J	1		P
Potassium	ug/L	20	3330		3310		1		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	19600		19500		1		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	55.1		54.2		2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Matrix: Water **Sample ID:** P4722-15MS **Client ID:** WC-3(0-6)MSD

Percent Solids for Sample: NA **Duplicate ID** P4722-15MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	983		1010		3		P
Antimony	ug/L	20	390		405		4		P
Arsenic	ug/L	20	396		414		4		P
Barium	ug/L	20	172		176		2		P
Beryllium	ug/L	20	93.8		96.0		2		P
Cadmium	ug/L	20	89.8		93.5		4		P
Calcium	ug/L	20	165000		167000		1		P
Chromium	ug/L	20	188		195		4		P
Cobalt	ug/L	20	91.5		94.9		4		P
Copper	ug/L	20	149		155		4		P
Iron	ug/L	20	1510		1580		5		P
Lead	ug/L	20	451		468		4		P
Magnesium	ug/L	20	7610		7740		2		P
Manganese	ug/L	20	116		119		3		P
Mercury	ug/L	20	4.03		4.41		9		CV
Nickel	ug/L	20	231		240		4		P
Potassium	ug/L	20	8110		8410		4		P
Selenium	ug/L	20	927		982		6		P
Silver	ug/L	20	35.7		37.1		4		P
Sodium	ug/L	20	20300		20900		3		P
Thallium	ug/L	20	869		925		6		P
Vanadium	ug/L	20	145		150		3		P
Zinc	ug/L	20	152		157		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Matrix: Water **Sample ID:** P4718-03 **Client ID:** WB-307-SB02DUP

Percent Solids for Sample: NA **Duplicate ID** P4718-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	1850		1790		3		P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	16.1	J	14.3	J	12		P
Lead	ug/L	20	60.0	U	60.0	U			P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Matrix: Water **Sample ID:** P4718-03MS **Client ID:** WB-307-SB02MSD

Percent Solids for Sample: NA **Duplicate ID** P4718-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	4010		3850		4		P
Barium	ug/L	20	2780		2560		8		P
Cadmium	ug/L	20	1120		1080		4		P
Chromium	ug/L	20	2340		2270		3		P
Lead	ug/L	20	5130		4900		5		P
Mercury	ug/L	20	33.6		40.7		19		CV
Selenium	ug/L	20	9590		9210		4		P
Silver	ug/L	20	362		343		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LABORATORY CONTROL SAMPLE SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164869BS							
Aluminum	ug/L	1000	958		96	80 - 120	P
Antimony	ug/L	400	369		92	80 - 120	P
Arsenic	ug/L	400	375		94	80 - 120	P
Barium	ug/L	100	94.6		95	80 - 120	P
Beryllium	ug/L	100	97.0		97	80 - 120	P
Cadmium	ug/L	100	90.2		90	80 - 120	P
Calcium	ug/L	500	496	J	99	80 - 120	P
Chromium	ug/L	200	190		95	80 - 120	P
Cobalt	ug/L	100	91.9		92	80 - 120	P
Copper	ug/L	150	147		98	80 - 120	P
Iron	ug/L	1500	1390		93	80 - 120	P
Lead	ug/L	500	460		92	80 - 120	P
Magnesium	ug/L	1000	944	J	94	80 - 120	P
Manganese	ug/L	100	96.7		97	80 - 120	P
Nickel	ug/L	250	231		92	80 - 120	P
Potassium	ug/L	5000	4530		91	80 - 120	P
Selenium	ug/L	1000	923		92	80 - 120	P
Silver	ug/L	37.5	35.0		93	80 - 120	P
Sodium	ug/L	1500	1240		83	80 - 120	P
Thallium	ug/L	1000	936		94	80 - 120	P
Vanadium	ug/L	150	144		96	80 - 120	P
Zinc	ug/L	100	99.0		99	80 - 120	P

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LABORATORY CONTROL SAMPLE SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164892BS							
Mercury	ug/L	4.0	4.21		105	80 - 120	CV

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LABORATORY CONTROL SAMPLE SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164768BS							
Arsenic	ug/L	4000	3890		97	80 - 120	P
Barium	ug/L	1000	956		96	80 - 120	P
Cadmium	ug/L	1000	901		90	80 - 120	P
Chromium	ug/L	2000	1800		90	80 - 120	P
Lead	ug/L	5000	4650		93	80 - 120	P
Selenium	ug/L	10000	9760		98	80 - 120	P
Silver	ug/L	380	363		96	80 - 120	P

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LABORATORY CONTROL SAMPLE SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164791BS							
Mercury	ug/L	4.0	4.19		105	80 - 120	CV

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

WC-3(0-6)L

Lab Name: Chemtech Consulting Group **Contract:** WALS01

Lab Code: CHEM **Lb No.:** lb133457 **Lab Sample ID :** P4722-15L **SDG No.:** P4722

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	29.5	J	250	U	100.0		P
Antimony	2.70	J	125	U	100.0		P
Arsenic	10.0	U	50.0	U			P
Barium	76.6		79.1	J	3		P
Beryllium	3.00	U	15.0	U			P
Cadmium	0.32	J	15.0	U	100.0		P
Calcium	167000		177000		6		P
Chromium	1.28	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	10.4		50.0	U	100.0		P
Iron	96.2		109	J	13		P
Lead	12.8		30.0	U	100.0		P
Magnesium	6910		7300		6		P
Manganese	21.7		23.5	J	8		P
Mercury	0.20	U	1.00	U			CV
Nickel	3.85	J	4.77	J	24		P
Potassium	3330		5000	U	100.0		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	19600		17400		11		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	55.1		55.5	J	1		P

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

WB-307-SB02L

Lab Name: Chemtech Consulting Group **Contract:** WALS01

Lab Code: CHEM **Lb No.:** lb133525 **Lab Sample ID :** P4718-03L **SDG No.:** P4722

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	100	U	500	U			P
Barium	1850		2020	J	9		P
Cadmium	30.0	U	150	U			P
Chromium	16.1	J	250	U	100.0		P
Lead	60.0	U	300	U			P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

METAL PREPARATION & INSTRUMENT DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Method:**

Case No.: P4722 **SAS No.:** P4722

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164869**						
P4722-05	WC-1(0-6)	SAM	WATER	11/11/2024	50.0	25.0	
P4722-10	WC-2(0-6)	SAM	WATER	11/11/2024	50.0	25.0	
P4722-15	WC-3(0-6)	SAM	WATER	11/11/2024	50.0	25.0	
P4722-15DUP	WC-3(0-6)DUP	DUP	WATER	11/11/2024	50.0	25.0	
P4722-15MS	WC-3(0-6)MS	MS	WATER	11/11/2024	50.0	25.0	
P4722-15MSD	WC-3(0-6)MSD	MSD	WATER	11/11/2024	50.0	25.0	
PB164869BL	PB164869BL	MB	WATER	11/11/2024	50.0	25.0	
PB164869BS	PB164869BS	LCS	WATER	11/11/2024	50.0	25.0	
PB164869TB	PB164869TB	MB	WATER	11/11/2024	50.0	25.0	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Method:**

Case No.: P4722 **SAS No.:** P4722

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164892**						
P4722-05	WC-1(0-6)	SAM	WATER	11/11/2024	30.0	30.0	
P4722-10	WC-2(0-6)	SAM	WATER	11/11/2024	30.0	30.0	
P4722-15	WC-3(0-6)	SAM	WATER	11/11/2024	30.0	30.0	
P4722-15DUP	WC-3(0-6)DUP	DUP	WATER	11/11/2024	30.0	30.0	
P4722-15MS	WC-3(0-6)MS	MS	WATER	11/11/2024	30.0	30.0	
P4722-15MSD	WC-3(0-6)MSD	MSD	WATER	11/11/2024	30.0	30.0	
PB164892BL	PB164892BL	MB	WATER	11/11/2024	30.0	30.0	
PB164892BS	PB164892BS	LCS	WATER	11/11/2024	30.0	30.0	
PB164892TB	PB164892TB	MB	WATER	11/11/2024	30.0	30.0	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Method:**

Case No.: P4722 **SAS No.:** P4722

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164768**						
P4718-03DUP	WB-307-SB02DUP	DUP	WATER	11/07/2024	5.0	25.0	
P4718-03MS	WB-307-SB02MS	MS	WATER	11/07/2024	5.0	25.0	
P4718-03MSD	WB-307-SB02MSD	MSD	WATER	11/07/2024	5.0	25.0	
P4722-04	WC-1(0-6)	SAM	WATER	11/07/2024	5.0	25.0	
P4722-09	WC-2(0-6)	SAM	WATER	11/07/2024	5.0	25.0	
P4722-14	WC-3(0-6)	SAM	WATER	11/07/2024	5.0	25.0	
PB164694TB	PB164694TB	MB	WATER	11/07/2024	5.0	25.0	
PB164768BL	PB164768BL	MB	WATER	11/07/2024	5.0	25.0	
PB164768BS	PB164768BS	LCS	WATER	11/07/2024	5.0	25.0	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Walsh Construction Company II, LLC **SDG No.:** P4722

Contract: WALS01 **Lab Code:** CHEM **Method:**

Case No.: P4722 **SAS No.:** P4722

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164791**						
P4718-03DUP	WB-307-SB02DUP	DUP	WATER	11/07/2024	3.0	30.0	
P4718-03MS	WB-307-SB02MS	MS	WATER	11/07/2024	3.0	30.0	
P4718-03MSD	WB-307-SB02MSD	MSD	WATER	11/07/2024	3.0	30.0	
P4722-04	WC-1(0-6)	SAM	WATER	11/07/2024	3.0	30.0	
P4722-09	WC-2(0-6)	SAM	WATER	11/07/2024	3.0	30.0	
P4722-14	WC-3(0-6)	SAM	WATER	11/07/2024	3.0	30.0	
PB164694TB	PB164694TB	MB	WATER	11/07/2024	3.0	30.0	
PB164791BL	PB164791BL	MB	WATER	11/07/2024	30.0	30.0	
PB164791BS	PB164791BS	LCS	WATER	11/07/2024	30.0	30.0	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: Walsh Construction Company II, LLC **Contract:** WALS01

Lab code: CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

Instrument id number: **Method:** **Run number:** LB133407

Start date: 11/12/2024 **End date:** 11/12/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1403	HG
S0.2	S0.2	1	1405	HG
S2.5	S2.5	1	1408	HG
S5	S5	1	1410	HG
S7.5	S7.5	1	1412	HG
S10	S10	1	1415	HG
ICV83	ICV83	1	1417	HG
ICB83	ICB83	1	1422	HG
CCV75	CCV75	1	1427	HG
CCB75	CCB75	1	1429	HG
CRA	CRA	1	1439	HG
PB164892BL	PB164892BL	1	1449	HG
PB164892BS	PB164892BS	1	1451	HG
P4722-05	WC-1(0-6)	1	1453	HG
P4722-10	WC-2(0-6)	1	1456	HG
P4722-15	WC-3(0-6)	1	1458	HG
P4722-15DUP	WC-3(0-6)DUP	1	1500	HG
P4722-15MS	WC-3(0-6)MS	1	1503	HG
CCV76	CCV76	1	1505	HG
CCB76	CCB76	1	1507	HG
P4722-15MSD	WC-3(0-6)MSD	1	1509	HG
CCV77	CCV77	1	1532	HG
CCB77	CCB77	1	1537	HG
CCV78	CCV78	1	1559	HG
CCB78	CCB78	1	1601	HG
PB164892TB	PB164892TB	1	1606	HG
P4722-15L	WC-3(0-6)L	5	1610	HG
CCV79	CCV79	1	1625	HG
CCB79	CCB79	1	1627	HG

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: Walsh Construction Company II, LLC **Contract:** WALS01

Lab code: CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

Instrument id number: **Method:** **Run number:** LB133457

Start date: 11/14/2024 **End date:** 11/14/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1333	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1337	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1346	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1350	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1354	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1358	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1410	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1436	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1440	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1454	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1518	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1522	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1527	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1535	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1540	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164869TB	PB164869TB	1	1601	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164869BL	PB164869BL	1	1605	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164869BS	PB164869BS	1	1609	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1627	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1631	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1723	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1812	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1817	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4722-05	WC-1(0-6)	1	1858	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1903	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1907	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4722-10	WC-2(0-6)	1	1911	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4722-15	WC-3(0-6)	1	1916	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4722-15DUP	WC-3(0-6)DUP	1	1920	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4722-15L	WC-3(0-6)L	5	1925	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4722-15MS	WC-3(0-6)MS	1	1929	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4722-15MSD	WC-3(0-6)MSD	1	1933	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1955	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1959	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2047	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2142	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2204	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2208	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2258	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: Walsh Construction Company II, LLC **Contract:** WALS01

Lab code: CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

Instrument id number: **Method:** **Run number:** LB133457

Start date: 11/14/2024 **End date:** 11/14/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB10	CCB10	1	2303	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: Walsh Construction Company II, LLC **Contract:** WALS01

Lab code: CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

Instrument id number: **Method:** **Run number:** LB133352

Start date: 11/08/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1004	HG
S0.2	S0.2	1	1007	HG
S2.5	S2.5	1	1009	HG
S5	S5	1	1011	HG
S7.5	S7.5	1	1013	HG
S10	S10	1	1016	HG
ICV75	ICV75	1	1019	HG
ICB75	ICB75	1	1021	HG
CCV51	CCV51	1	1023	HG
CCB51	CCB51	1	1025	HG
CRA	CRA	1	1028	HG
PB164791BL	PB164791BL	1	1038	HG
PB164791BS	PB164791BS	1	1040	HG
P4718-03DUP	WB-307-SB02DUP	1	1044	HG
P4718-03MS	WB-307-SB02MS	1	1047	HG
P4718-03MSD	WB-307-SB02MSD	1	1049	HG
CCV52	CCV52	1	1053	HG
CCB52	CCB52	1	1056	HG
P4722-04	WC-1(0-6)	1	1100	HG
P4722-09	WC-2(0-6)	1	1103	HG
P4722-14	WC-3(0-6)	1	1105	HG
CCV53	CCV53	1	1121	HG
CCB53	CCB53	1	1123	HG
PB164694TB	PB164694TB	1	1125	HG
P4718-03L	WB-307-SB02L	5	1128	HG
CCV54	CCV54	1	1132	HG
CCB54	CCB54	1	1134	HG

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: Walsh Construction Company II, LLC **Contract:** WALS01

Lab code: CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

Instrument id number: **Method:** **Run number:** LB133365

Start date: 11/08/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1334	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1338	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1343	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1347	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1351	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1355	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1359	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1411	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1416	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1420	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1424	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1430	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1444	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1450	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1529	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1533	Ag,As,Ba,Cd,Cr,Pb,Se
P4722-04	WC-1(0-6)	1	1606	Ag,As,Ba,Cd,Cr,Pb,Se
P4722-09	WC-2(0-6)	1	1610	Ag,As,Ba,Cd,Cr,Pb,Se
P4722-14	WC-3(0-6)	1	1615	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1623	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1628	Ag,As,Ba,Cd,Cr,Pb,Se
PB164694TB	PB164694TB	1	1654	Ag,As,Ba,Cd,Cr,Pb,Se
PB164768BL	PB164768BL	1	1659	Ag,As,Ba,Cd,Cr,Pb,Se
PB164768BS	PB164768BS	1	1703	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1716	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1722	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1804	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1808	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1855	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1859	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1947	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1951	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	2048	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	2057	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	2150	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	2155	Ag,As,Ba,Cd,Cr,Pb,Se
CCV10	CCV10	1	2324	Ag,As,Ba,Cd,Cr,Pb,Se
CCB10	CCB10	1	2335	Ag,As,Ba,Cd,Cr,Pb,Se

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: Walsh Construction Company II, LLC **Contract:** WALS01

Lab code: CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

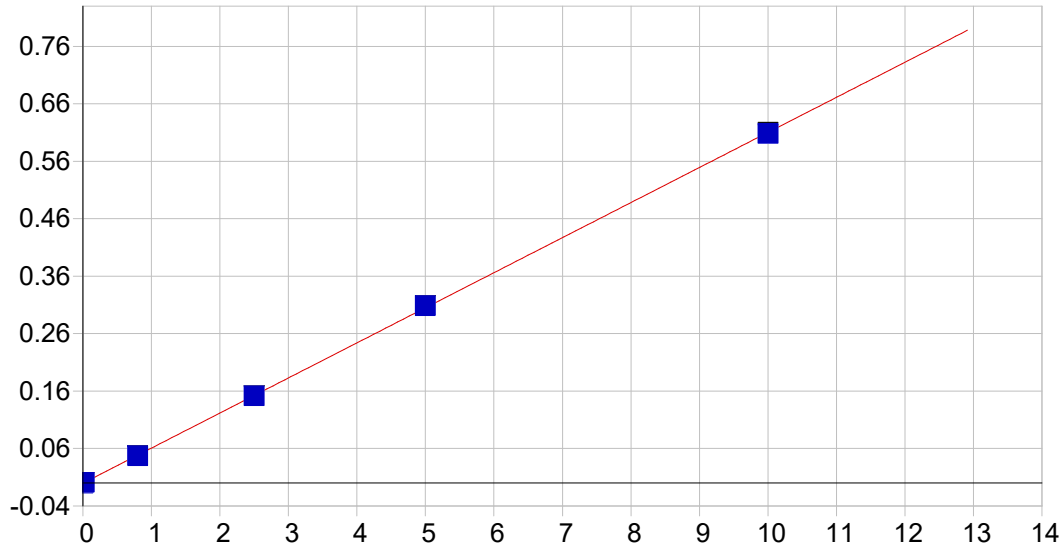
Instrument id number: **Method:** **Run number:** LB133525

Start date: 11/19/2024 **End date:** 11/19/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1940	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1945	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1949	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1953	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1958	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	2002	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	2006	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	2010	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	2014	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	2019	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	2023	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	2027	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	2038	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	2047	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03DUP	WB-307-SB02DUP	1	2056	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03L	WB-307-SB02L	5	2101	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03MS	WB-307-SB02MS	1	2105	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03MSD	WB-307-SB02MSD	1	2114	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03A	WB-307-SB02A	1	2118	Ba
CCV02	CCV02	1	2136	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	2142	Ag,As,Ba,Cd,Cr,Pb,Se

METAL
RAW DATA

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



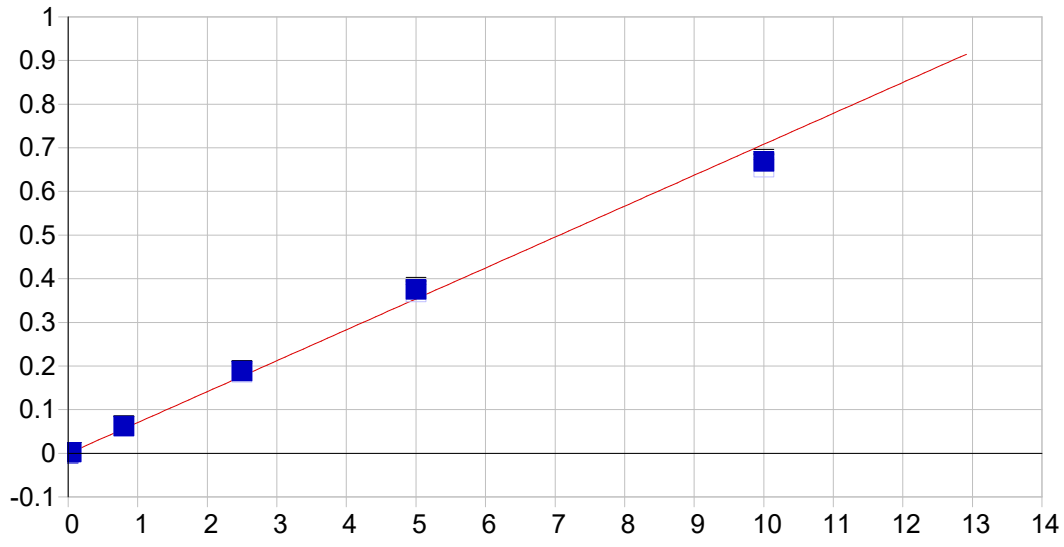
As 189.042 {479}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000216	Re-Slope:	1.000000
A1 (Gain):	0.061051	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.002249		
Predicted MQL:	0.007495		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00022	.000	1
S1	.02000	.02005	.000	.238	.00100	.000	1
S3	2.5000	2.4912	-.009	-.350	.15171	.000	1
S4	5.0000	5.0596	.060	1.19	.30835	.000	1
S5	10.000	9.9721	-.028	-.279	.60794	.002	1
S2	.80000	.77692	-.023	-2.88	.04716	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



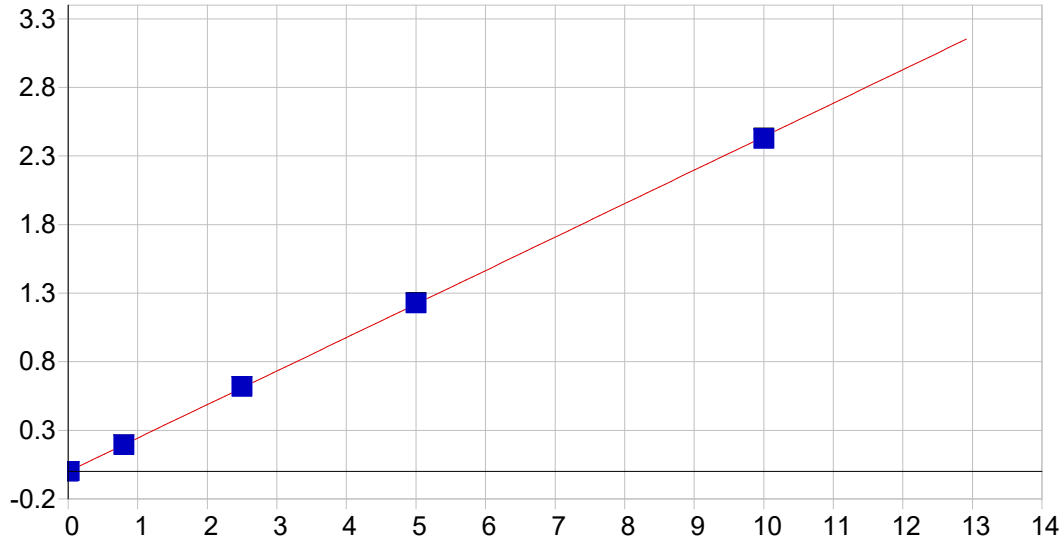
Tl 190.856 {477}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000461	Re-Slope:	1.000000
A1 (Gain):	0.070852	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998031	Status:	OK.
Std Error of Est:	0.000145		
Predicted MDL:	0.001674		
Predicted MQL:	0.005579		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00046	.000	1
S1	.04000	.04006	.000	.140	.00219	.000	1
S3	2.5000	2.6674	.167	6.69	.18526	.001	1
S4	5.0000	5.3064	.306	6.13	.36898	.005	1
S5	10.000	9.4426	-.557	-5.57	.65552	.005	1
S2	.80000	.88356	.084	10.4	.06110	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



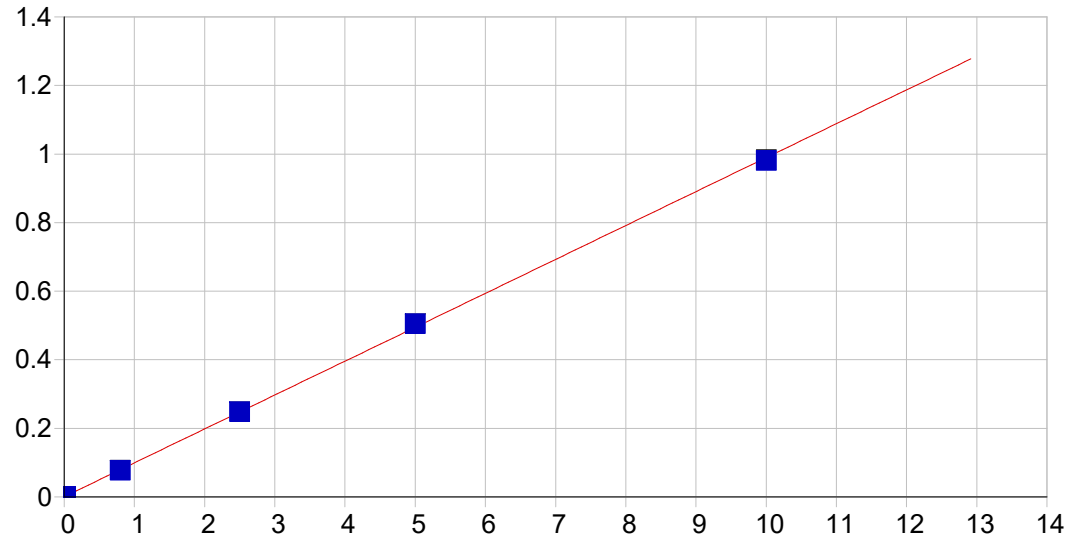
Pb 220.353 {453}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000176	Re-Slope:	1.000000
A1 (Gain):	0.244114	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999970	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.000988		
Predicted MQL:	0.003293		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00018	.000	1
S1	.01200	.01058	-.001	-11.8	.00235	.000	1
S3	2.5000	2.5331	.033	1.32	.61751	.001	1
S4	5.0000	5.0263	.026	.525	1.2255	.004	1
S5	10.000	9.9421	-.058	-.579	2.4241	.004	1
S2	.80000	.79998	-.000	-.003	.19489	.001	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



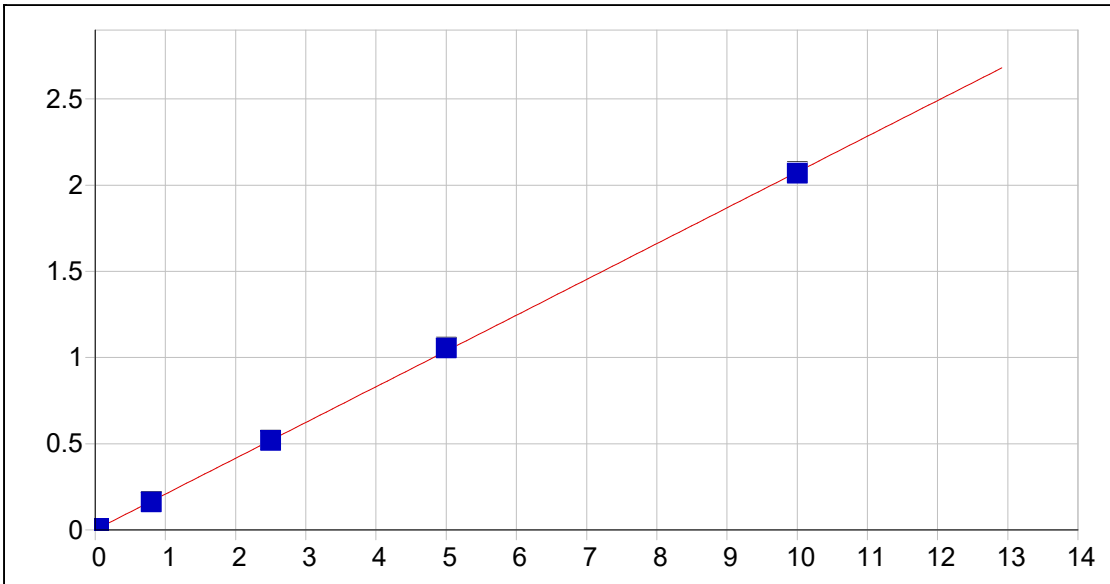
Se 196.090 {472}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000378	Re-Slope:	1.000000
A1 (Gain):	0.098899	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999911	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.001858		
Predicted MQL:	0.006195		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00038	.000	1
S1	.02000	.01976	-.000	-1.18	.00233	.000	1
S3	2.5000	2.5050	.005	.202	.24806	.001	1
S4	5.0000	5.0991	.099	1.98	.50455	.001	1
S5	10.000	9.9185	-.082	-.815	.98105	.002	1
S2	.80000	.77760	-.022	-2.80	.07726	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



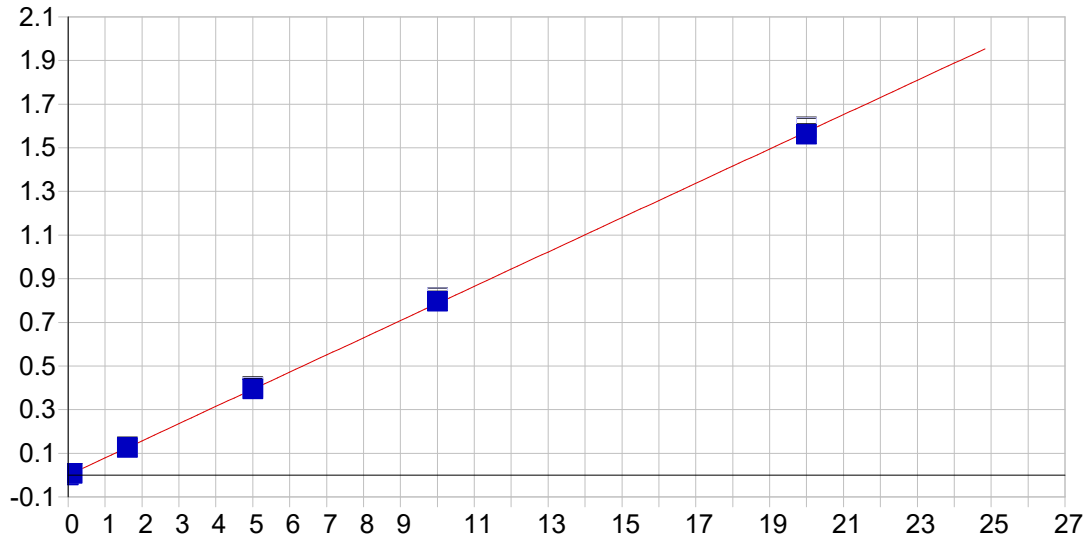
Sb 206.833 {463}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000407	Re-Slope:	1.000000
A1 (Gain):	0.207551	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000092		
Predicted MDL:	0.001077		
Predicted MQL:	0.003590		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00041	.000	1
S1	.05000	.04469	-.005	-10.6	.00970	.000	1
S3	2.5000	2.4940	-.006	-.240	.51945	.000	1
S4	5.0000	5.0761	.076	1.52	1.0568	.003	1
S5	10.000	9.9597	-.040	-.403	2.0732	.004	1
S2	.80000	.77551	-.024	-3.06	.16182	.001	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



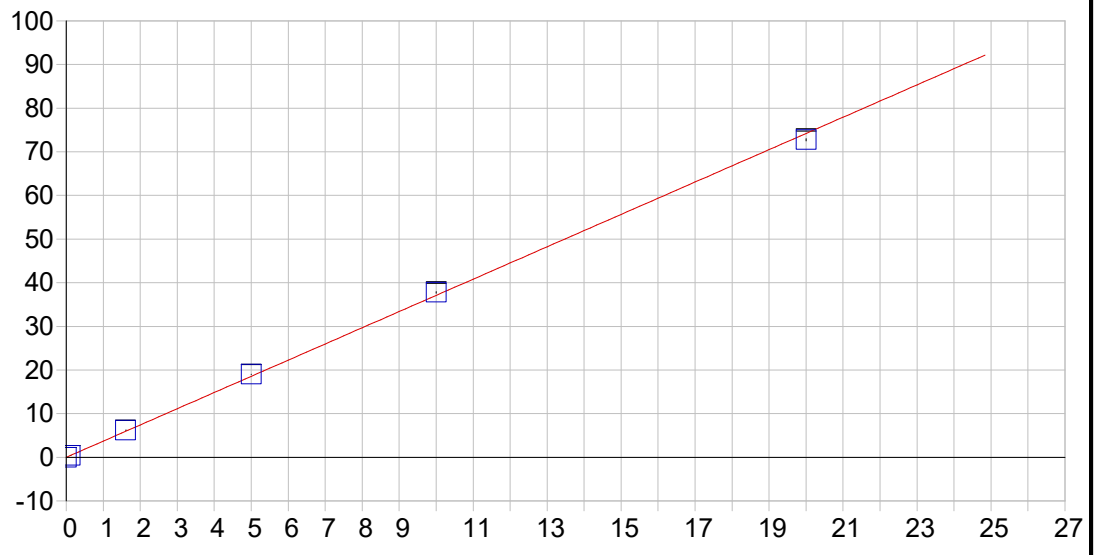
Al 396.152 { 85}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000132	Re-Slope:	1.000000
A1 (Gain):	0.078676	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999963	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.005202		
Predicted MQL:	0.017339		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00013	.000	1
S1	.10000	.10067	.001	.673	.00840	.000	1
S3	5.0000	5.0179	.018	.359	.40229	.002	1
S4	10.000	10.130	.130	1.30	.81208	.001	1
S5	20.000	19.856	-.144	-.721	1.5926	.002	1
S2	1.6000	1.5961	-.004	-.244	.12788	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



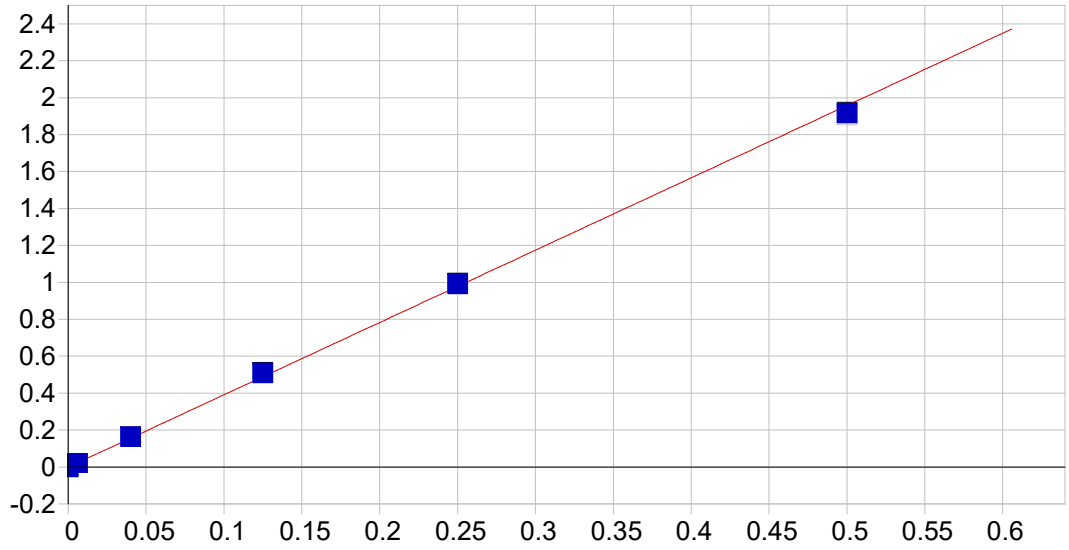
Ba 493.409 { 68}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.006340	Re-Slope:	1.000000
A1 (Gain):	3.710902	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999755	Status:	OK.
Std Error of Est:	0.006087		
Predicted MDL:	0.000370		
Predicted MQL:	0.001234		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00638	.001	1
S1	.10000	.10507	.005	5.07	.38356	.003	1
S3	5.0000	5.1238	.124	2.48	19.008	.034	1
S4	10.000	10.186	.186	1.86	37.794	.179	1
S5	20.000	19.610	-.390	-1.95	72.763	.277	1
S2	1.6000	1.6753	.075	4.70	6.2104	.022	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



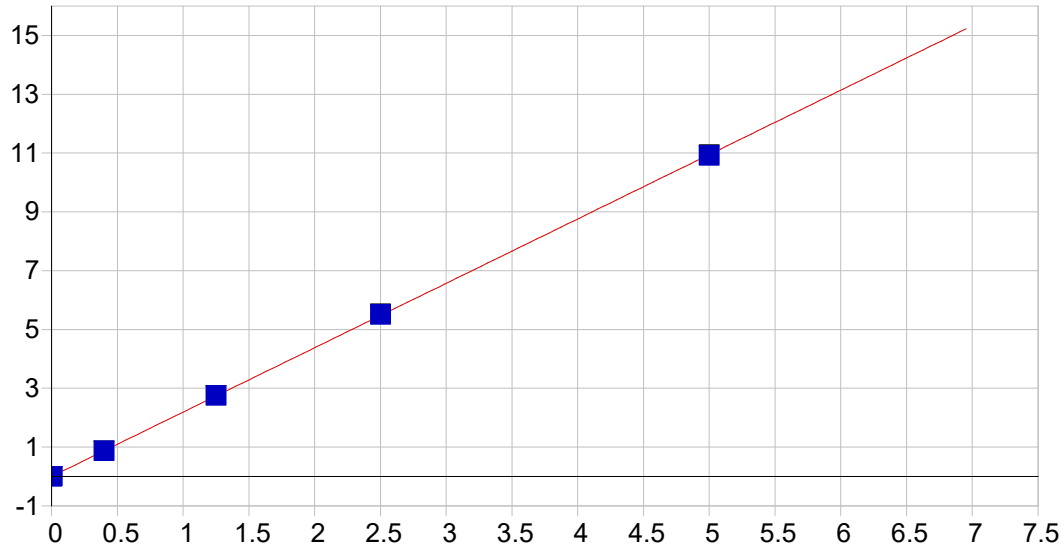
Be 234.861 {144}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000791	Re-Slope:	1.000000
A1 (Gain):	3.916383	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999661	Status:	OK.
Std Error of Est:	0.000292		
Predicted MDL:	0.000056		
Predicted MQL:	0.000185		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00079	.000	1
S1	.00600	.00589	-.000	-1.89	.02209	.000	1
S3	.12500	.13017	.005	4.14	.50682	.003	1
S4	.25000	.25354	.004	1.42	.98779	.003	1
S5	.50000	.48921	-.011	-2.16	1.9064	.006	1
S2	.04000	.04219	.002	5.47	.16373	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



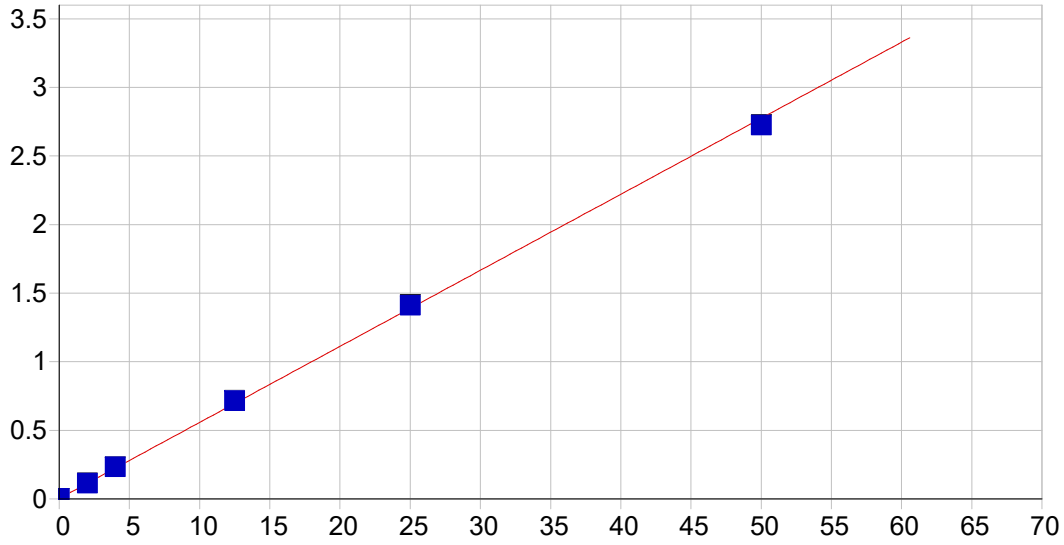
Cd 226.502 {449}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000170	Re-Slope:	1.000000
A1 (Gain):	2.190011	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000100		
Predicted MDL:	0.000085		
Predicted MQL:	0.000282		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00017	.000	1
S1	.00600	.00632	.000	5.29	.01372	.000	1
S3	1.2500	1.2562	.006	.494	2.7530	.006	1
S4	2.5000	2.5146	.015	.584	5.5111	.017	1
S5	5.0000	4.9829	-.017	-.341	10.921	.017	1
S2	.40000	.39598	-.004	-1.01	.86771	.003	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



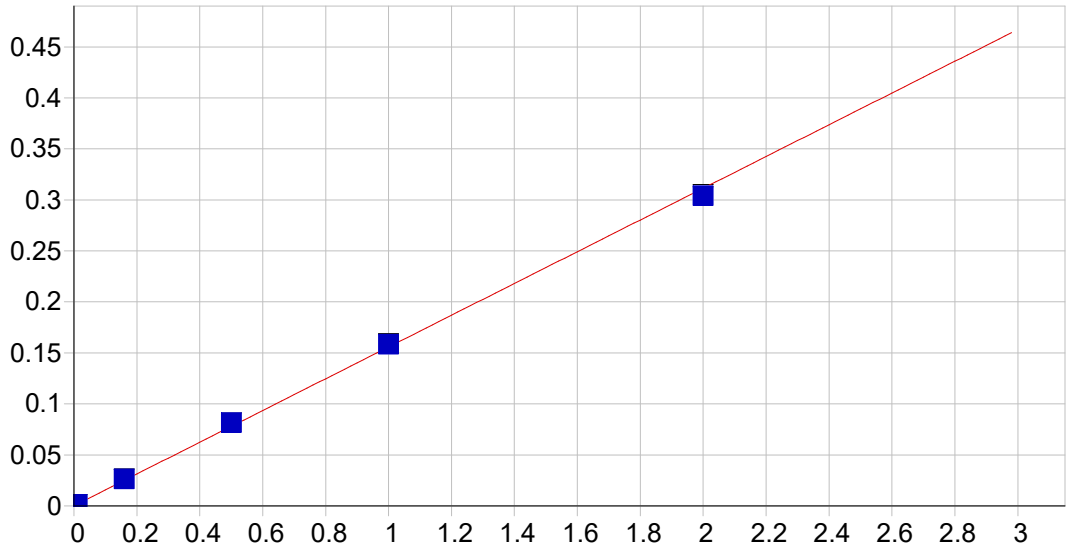
Ca 373.690 { 90}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003488	Re-Slope:	1.000000
A1 (Gain):	0.055439	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999797	Status:	OK.
Std Error of Est:	0.000591		
Predicted MDL:	0.007196		
Predicted MQL:	0.023987		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00012	-.000	.000	.00348	.000	1
S2	4.0000	4.1304	.130	3.26	.23247	.001	1
S3	12.500	12.869	.369	2.95	.71692	.001	1
S4	25.000	25.402	.402	1.61	1.4118	.004	1
S5	50.000	49.095	-.905	-1.81	2.7253	.005	1
S1	2.0000	2.0036	.004	.178	.11456	.001	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



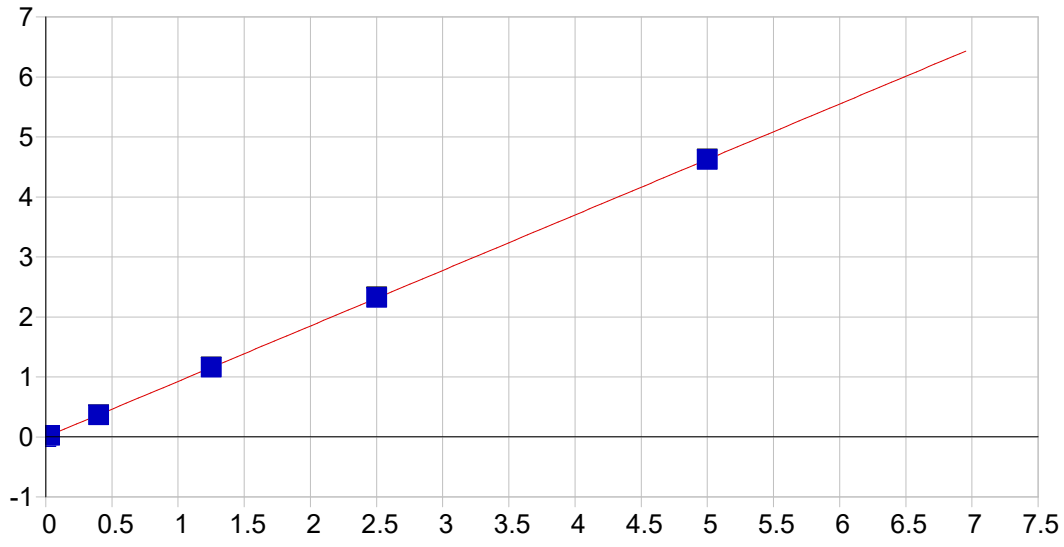
Cr 267.716 {126}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000198	Re-Slope:	1.000000
A1 (Gain):	0.155605	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999616	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.000424		
Predicted MQL:	0.001413		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00020	.000	1
S1	.01000	.00968	-.000	-3.16	.00171	.000	1
S3	.50000	.52280	.023	4.56	.08157	.000	1
S4	1.0000	1.0162	.016	1.62	.15838	.001	1
S5	2.0000	1.9532	-.047	-2.34	.30421	.001	1
S2	.16000	.16811	.008	5.07	.02636	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



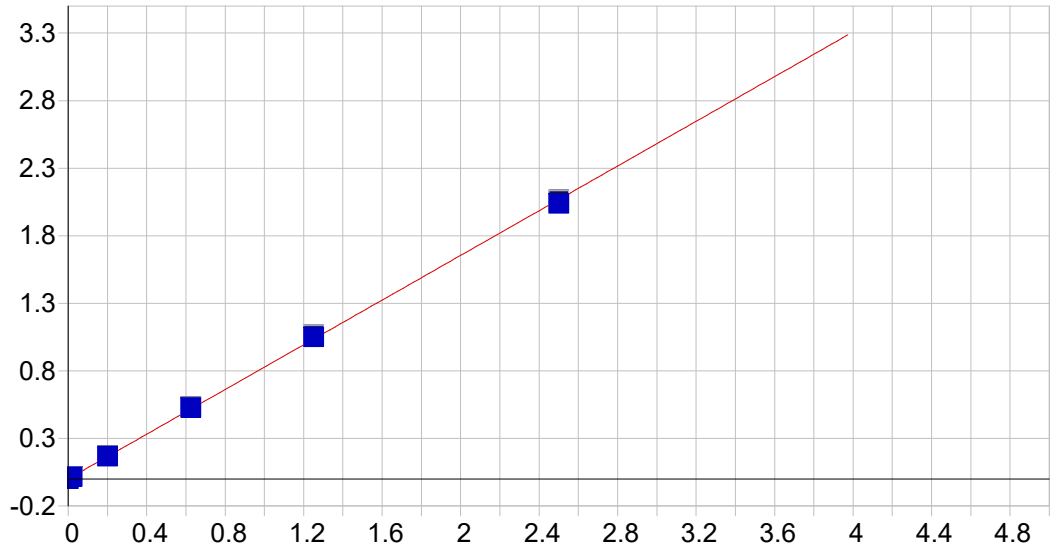
Co 228.616 {448}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000065	Re-Slope:	1.000000
A1 (Gain):	0.924697	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999986	Status:	OK.
Std Error of Est:	0.000099		
Predicted MDL:	0.000180		
Predicted MQL:	0.000601		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00006	.000	1
S1	.03000	.02792	-.002	-6.95	.02563	.000	1
S3	1.2500	1.2526	.003	.206	1.1601	.003	1
S4	2.5000	2.5095	.009	.378	2.3243	.008	1
S5	5.0000	4.9951	-.005	-.097	4.6268	.008	1
S2	.40000	.39490	-.005	-1.28	.36572	.001	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



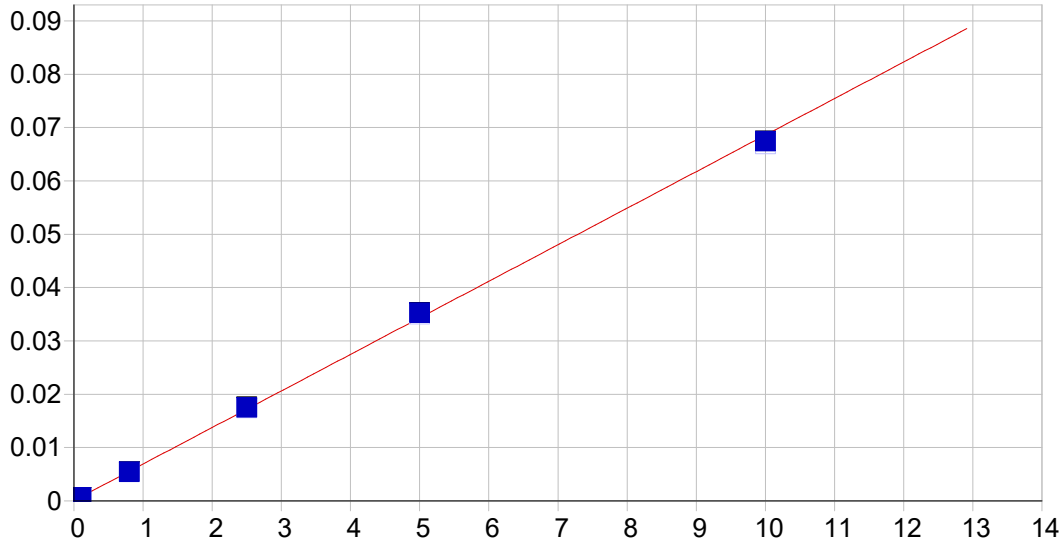
Cu 224.700 {450}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000033	Re-Slope:	1.000000
A1 (Gain):	0.827131	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999884	Status:	OK.
Std Error of Est:	0.000149		
Predicted MDL:	0.000351		
Predicted MQL:	0.001169		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.02000	.01998	-.000	-.105	.01677	.000	1
S3	.62500	.63769	.013	2.03	.53241	.001	1
S4	1.2500	1.2695	.020	1.56	1.0600	.004	1
S5	2.5000	2.4651	-.035	-1.39	2.0587	.006	1
S2	.20000	.20265	.003	1.33	.16923	.001	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



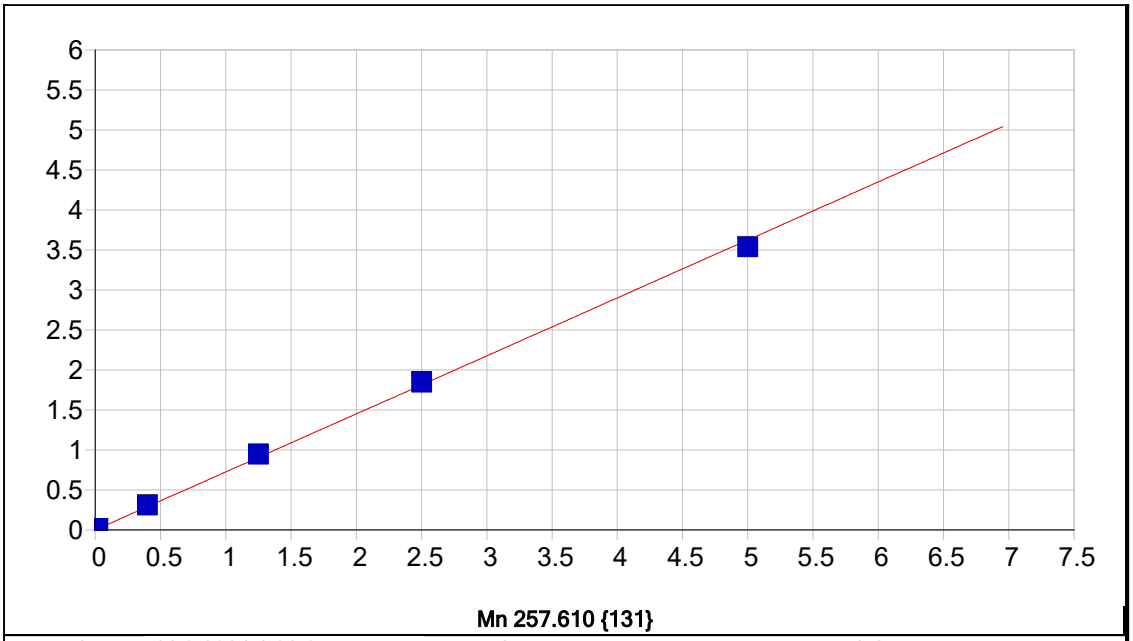
Fe 240.488 {140}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000063	Re-Slope:	1.000000
A1 (Gain):	0.006852	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999756	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.003472		
Predicted MQL:	0.011573		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00006	.000	1
S1	.10000	.08898	-.011	-11.0	.00066	.000	1
S3	2.5000	2.5495	.050	1.98	.01739	.000	1
S4	5.0000	5.1374	.137	2.75	.03497	.000	1
S5	10.000	9.8350	-.165	-1.65	.06687	.000	1
S2	.80000	.78908	-.011	-1.36	.00542	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



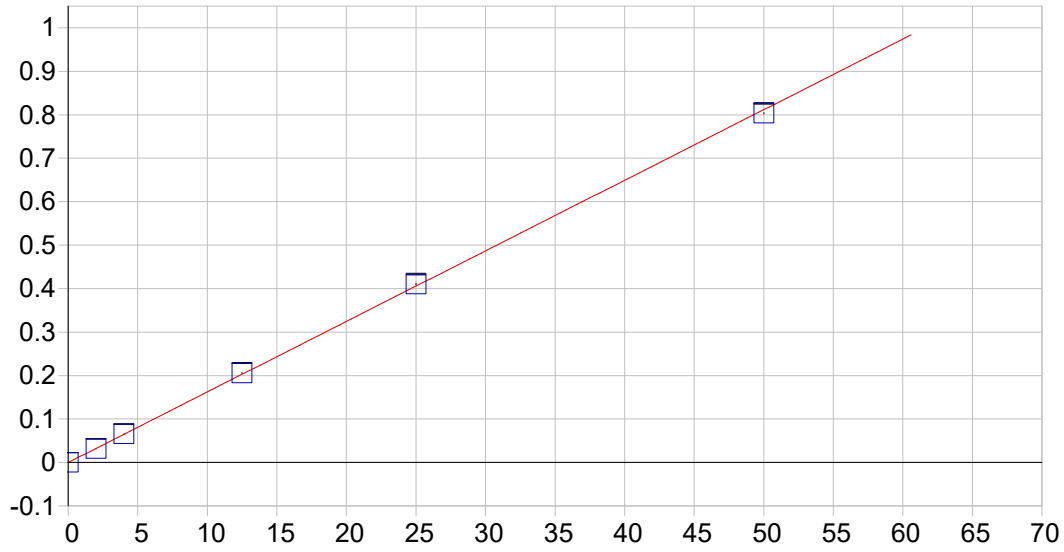
Mn 257.610 {131}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000180	Re-Slope:	1.000000
A1 (Gain):	0.724958	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999576	Status:	OK.
Std Error of Est:	0.000350		
Predicted MDL:	0.000246		
Predicted MQL:	0.000819		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00018	.000	1
S1	.02000	.02108	.001	5.41	.01547	.000	1
S3	1.2500	1.3016	.052	4.13	.94399	.003	1
S4	2.5000	2.5439	.044	1.75	1.8447	.008	1
S5	5.0000	4.8767	-.123	-2.47	3.5363	.007	1
S2	.40000	.42675	.027	6.69	.30961	.001	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



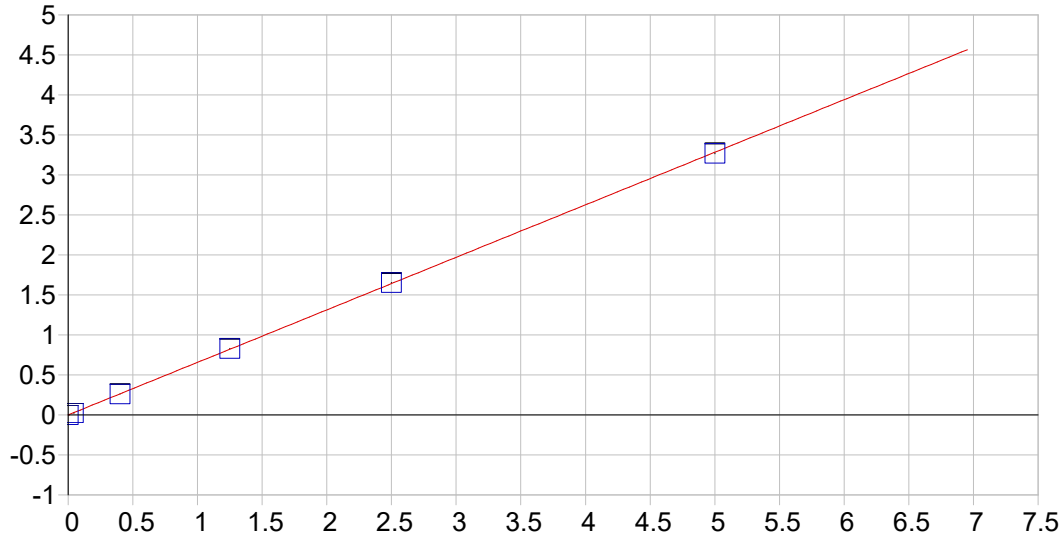
Mg 279.079 {121}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000177	Re-Slope:	1.000000
A1 (Gain):	0.016234	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999930	Status:	OK.
Std Error of Est:	0.000102		
Predicted MDL:	0.011191		
Predicted MQL:	0.037303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	-.00018	.000	1
S2	4.0000	4.0684	.068	1.71	.06587	.000	1
S3	12.500	12.682	.182	1.46	.20570	.001	1
S4	25.000	25.291	.291	1.16	.41039	.002	1
S5	50.000	49.505	-.495	-.989	.80349	.002	1
S1	2.0000	1.9535	-.046	-2.32	.03154	.001	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



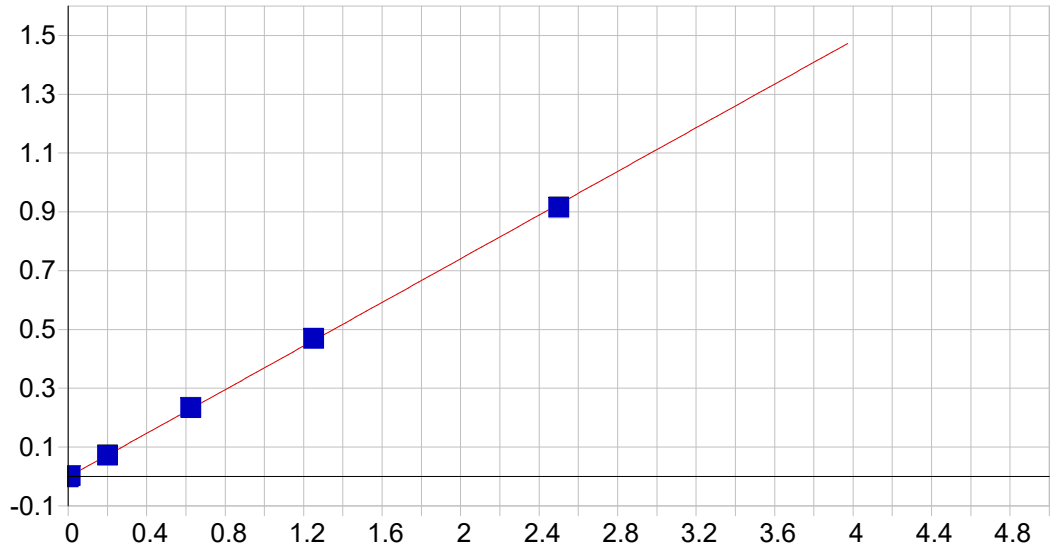
Ni 231.604 {446}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000115	Re-Slope:	1.000000
A1 (Gain):	0.656617	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000115		
Predicted MDL:	0.000286		
Predicted MQL:	0.000952		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00011	.000	1
S1	.04000	.03692	-.003	-7.71	.02413	.000	1
S3	1.2500	1.2613	.011	.901	.82805	.002	1
S4	2.5000	2.5139	.014	.557	1.6506	.005	1
S5	5.0000	4.9797	-.020	-.405	3.2697	.004	1
S2	.40000	.39816	-.002	-.461	.26132	.001	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



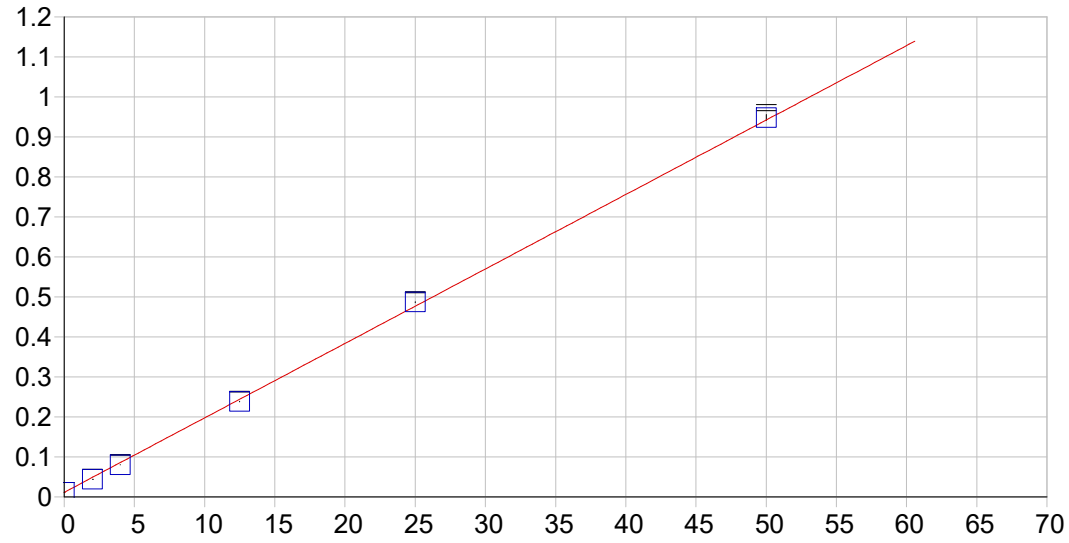
Ag 328.068 {103}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001635	Re-Slope:	1.000000
A1 (Gain):	0.371144	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	0.000278		
Predicted MQL:	0.000926		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00163	.000	1
S1	.01000	.00939	-.001	-6.11	.00182	.000	1
S3	.62500	.63595	.011	1.75	.23347	.000	1
S4	1.2500	1.2694	.019	1.55	.46765	.000	1
S5	2.5000	2.4707	-.029	-1.17	.91165	.001	1
S2	.20000	.19961	-.000	-.196	.07215	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



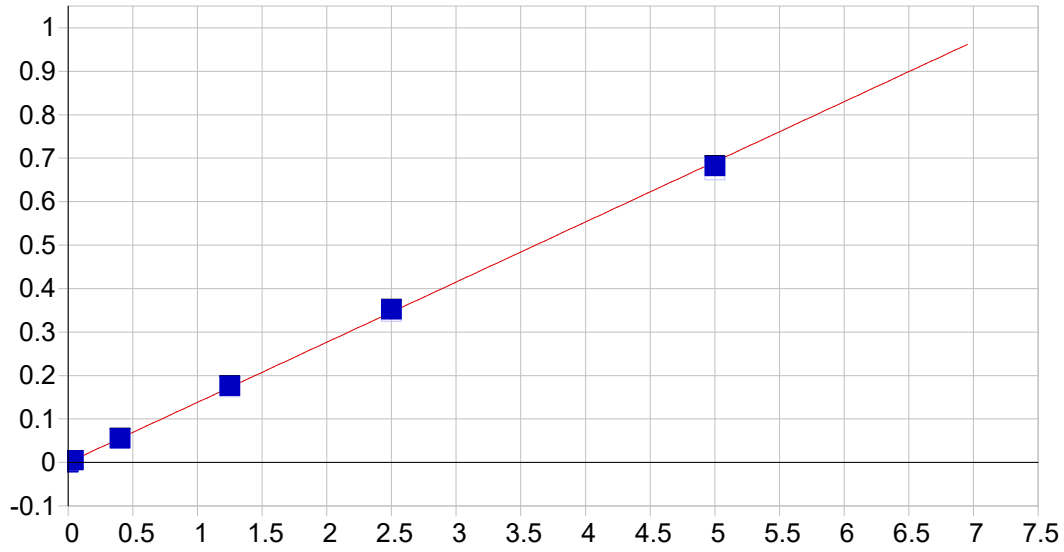
Na 589.592 { 57}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.011489	Re-Slope:	1.000000
A1 (Gain):	0.018612	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999568	Status:	OK.
Std Error of Est:	0.000289		
Predicted MDL:	0.007787		
Predicted MQL:	0.025955		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00041	.000	.000	.01150	.000	1
S2	4.0000	3.6906	-.309	-7.73	.08018	.000	1
S3	12.500	12.199	-.301	-2.41	.23853	.001	1
S4	25.000	25.538	.538	2.15	.48680	.001	1
S5	50.000	50.339	.339	.678	.94838	.007	1
S1	2.0000	1.7333	-.267	-13.3	.04375	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



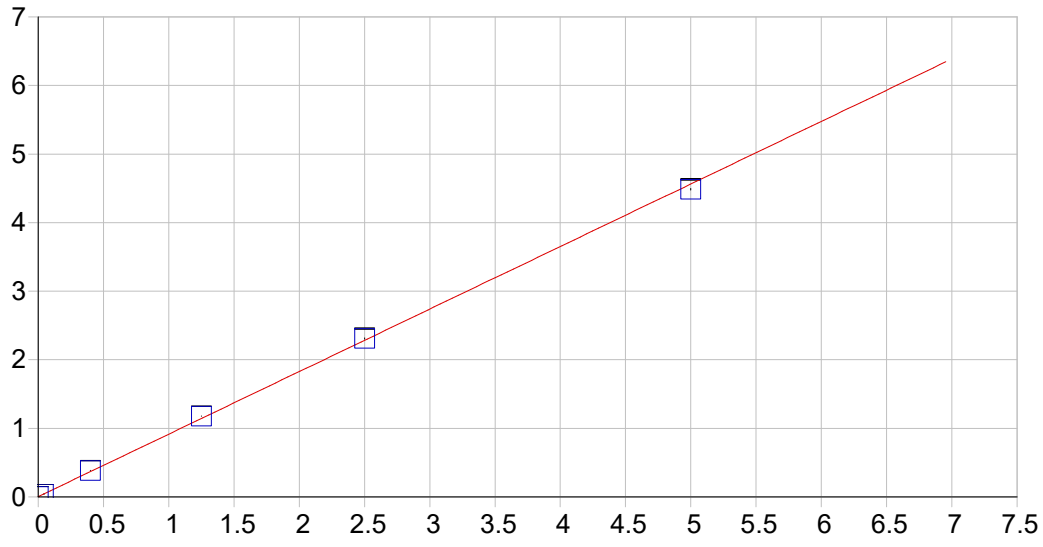
V 292.402 {115}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.138326	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999877	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.001354		
Predicted MQL:	0.004514		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00000	.000	1
S1	.04000	.03895	-.001	-2.62	.00518	.000	1
S3	1.2500	1.2725	.022	1.80	.17350	.001	1
S4	2.5000	2.5449	.045	1.80	.34699	.000	1
S5	5.0000	4.9312	-.069	-1.38	.67203	.001	1
S2	.40000	.40243	.002	.608	.05486	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



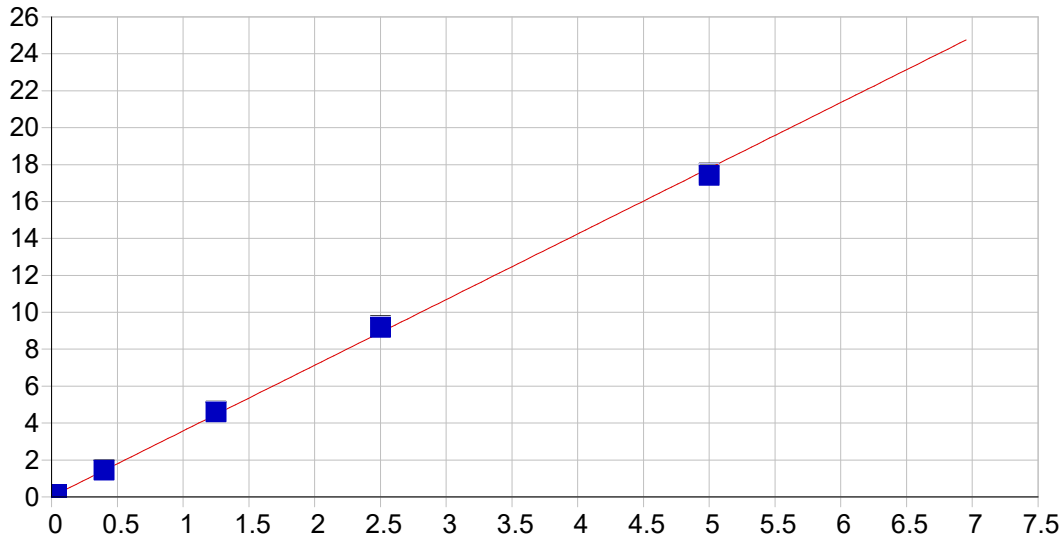
Zn 206.200 {464}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003653	Re-Slope:	1.000000
A1 (Gain):	0.911981	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999804	Status:	OK.
Std Error of Est:	0.000424		
Predicted MDL:	0.000198		
Predicted MQL:	0.000659		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00365	.000	1
S1	.04000	.03992	-.000	-.208	.04006	.000	1
S3	1.2500	1.2880	.038	3.04	1.1782	.001	1
S4	2.5000	2.5295	.030	1.18	2.3106	.009	1
S5	5.0000	4.9159	-.084	-1.68	4.4869	.012	1
S2	.40000	.41666	.017	4.16	.38364	.002	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



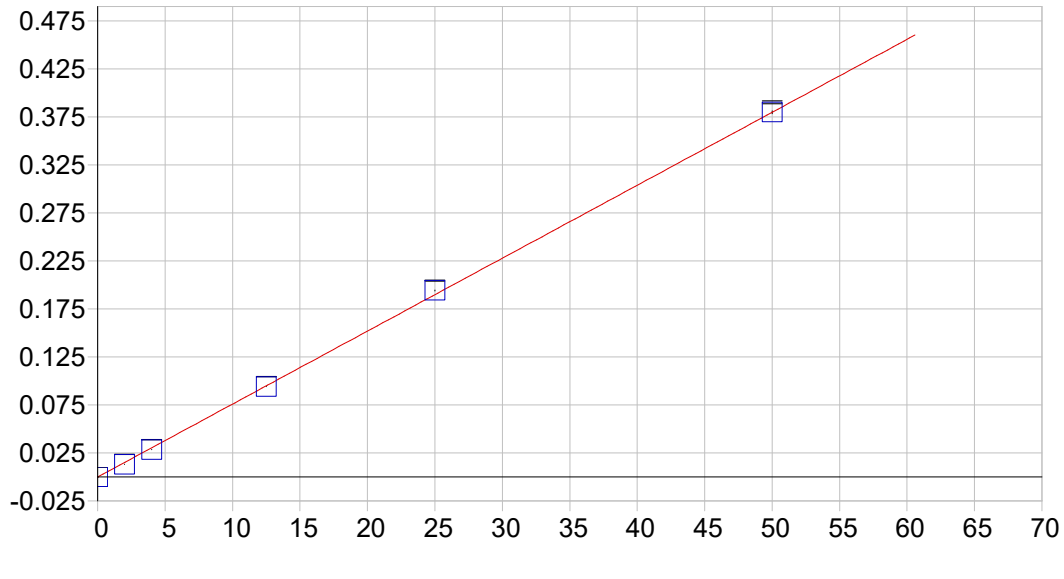
Zn 213.856 {158}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014637	Re-Slope:	1.000000
A1 (Gain):	3.557930	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999682	Status:	OK.
Std Error of Est:	0.002122		
Predicted MDL:	0.000210		
Predicted MQL:	0.000699		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01464	.000	1
S1	.04000	.03888	-.001	-2.81	.15396	.001	1
S3	1.2500	1.2880	.038	3.04	4.6281	.022	1
S4	2.5000	2.5738	.074	2.95	9.2340	.033	1
S5	5.0000	4.8870	-.113	-2.26	17.526	.023	1
S2	.40000	.40232	.002	.580	1.4560	.002	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



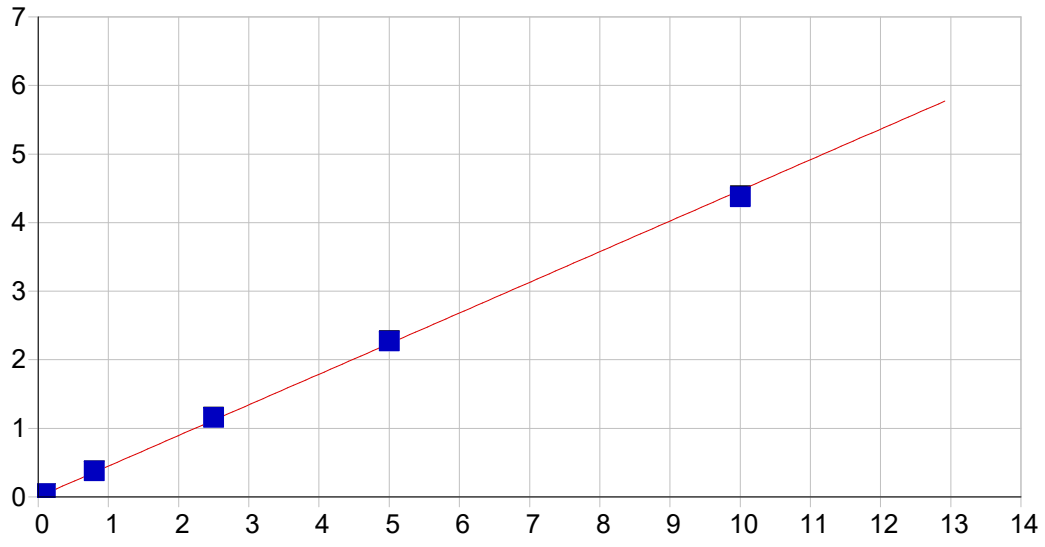
K 766.490 { 44}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000121	Re-Slope:	1.000000
A1 (Gain):	0.007598	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999668	Status:	OK.
Std Error of Est:	0.000104		
Predicted MDL:	0.021349		
Predicted MQL:	0.071164		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00035	.000	.000	-.00012	.000	1
S2	4.0000	3.7478	-.252	-6.30	.02836	.000	1
S3	12.500	12.407	-.093	-.743	.09415	.000	1
S4	25.000	25.582	.582	2.33	.19425	.000	1
S5	50.000	50.016	.016	.032	.37991	.002	1
S1	2.0000	1.7474	-.253	-12.6	.01316	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



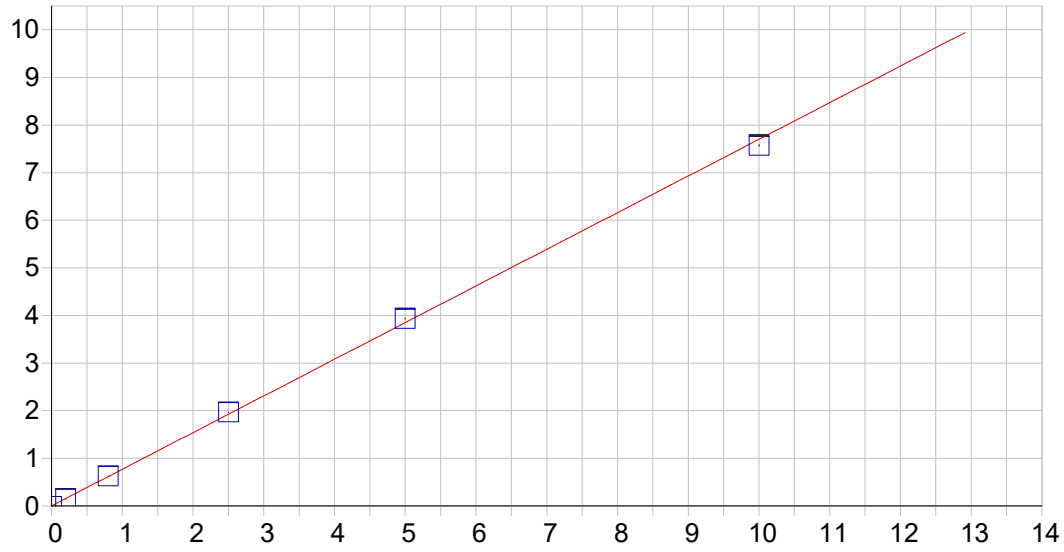
B 249.678 {135}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001733	Re-Slope:	1.000000
A1 (Gain):	0.446786	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999719	Status:	OK.
Std Error of Est:	0.000555		
Predicted MDL:	0.000598		
Predicted MQL:	0.001992		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00173	.000	1
S1	.10000	.10349	.003	3.49	.04778	.000	1
S3	2.5000	2.5841	.084	3.36	1.1541	.006	1
S4	5.0000	5.0781	.078	1.56	2.2662	.006	1
S5	10.000	9.7951	-.205	-2.05	4.3693	.013	1
S2	.80000	.83918	.039	4.90	.37597	.001	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



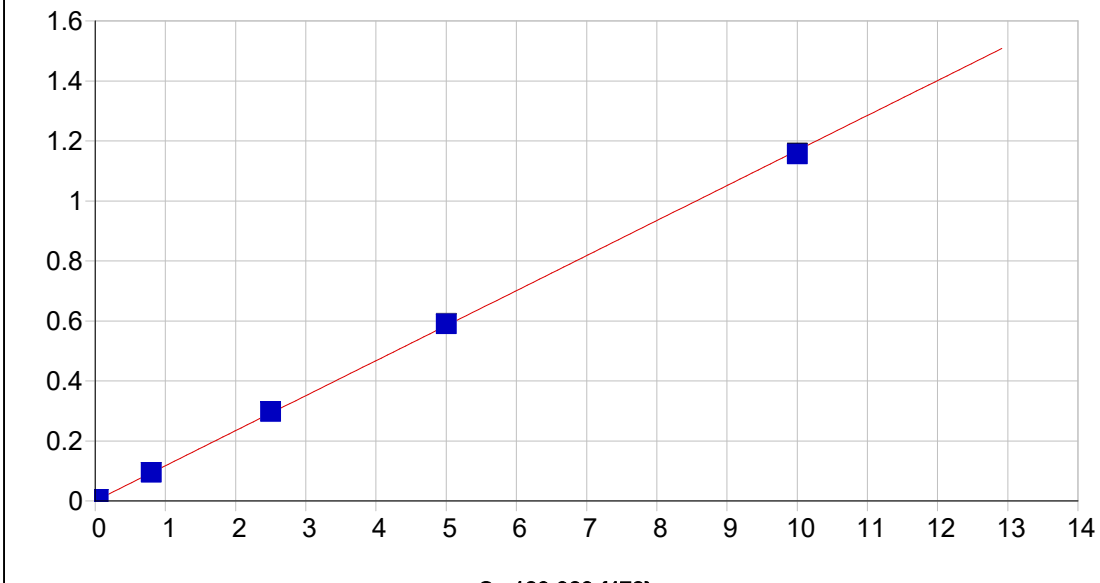
Mo 202.030 {467}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000344	Re-Slope:	1.000000
A1 (Gain):	0.770041	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999815	Status:	OK.
Std Error of Est:	0.001104		
Predicted MDL:	0.000241		
Predicted MQL:	0.000803		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00034	.000	1
S1	.20000	.19247	-.008	-3.77	.14855	.001	1
S3	2.5000	2.5551	.055	2.20	1.9679	.002	1
S4	5.0000	5.1088	.109	2.18	3.9343	.008	1
S5	10.000	9.8320	-.168	-1.68	7.5714	.015	1
S2	.80000	.81163	.012	1.45	.62534	.002	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



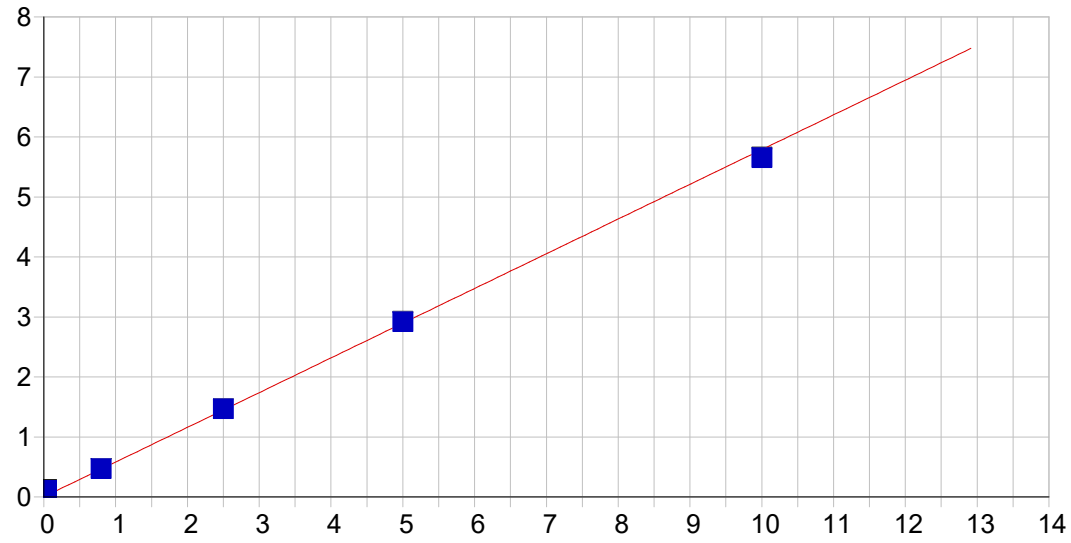
Sn 189.989 {478}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000561	Re-Slope:	1.000000
A1 (Gain):	0.116726	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999931	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.000732		
Predicted MQL:	0.002439		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00056	.000	1
S1	.04000	.03674	-.003	-8.15	.00484	.000	1
S3	2.5000	2.5416	.042	1.66	.29693	.001	1
S4	5.0000	5.0521	.052	1.04	.58968	.001	1
S5	10.000	9.9018	-.098	-.982	1.1552	.003	1
S2	.80000	.80777	.008	.971	.09475	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



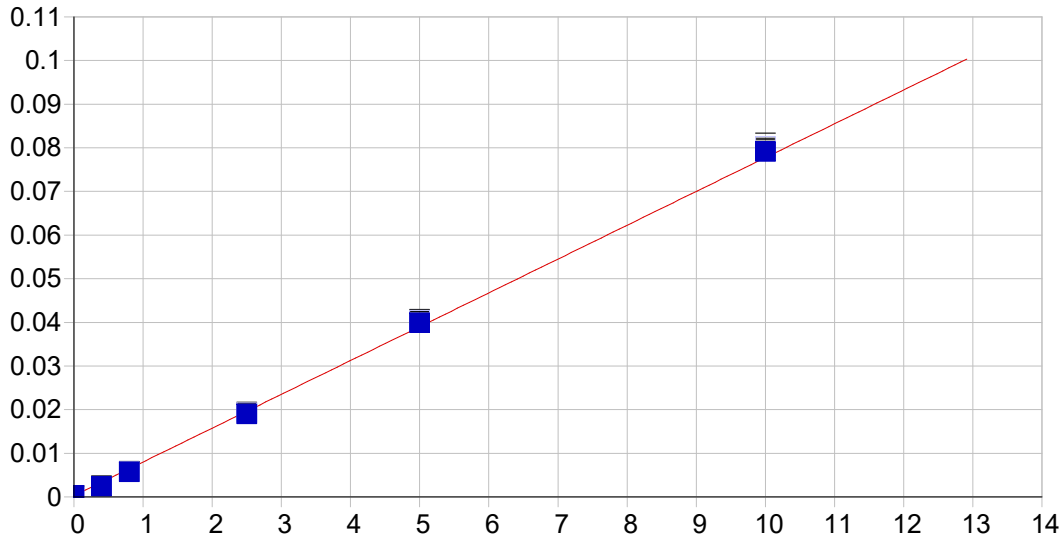
Ti 336.121 {100}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001787	Re-Slope:	1.000000
A1 (Gain):	0.578711	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.983994	Status:	OK.
Std Error of Est:	0.003473		
Predicted MDL:	0.000481		
Predicted MQL:	0.001604		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00170	.000	1
S1	.04000	.19413	.154	385.	.11411	.001	1
S3	2.5000	2.5300	.030	1.20	1.4654	.003	1
S4	5.0000	5.0416	.042	.832	2.9184	.006	1
S5	10.000	9.7621	-.238	-2.38	5.6491	.012	1
S2	.80000	.81225	.012	1.53	.47168	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



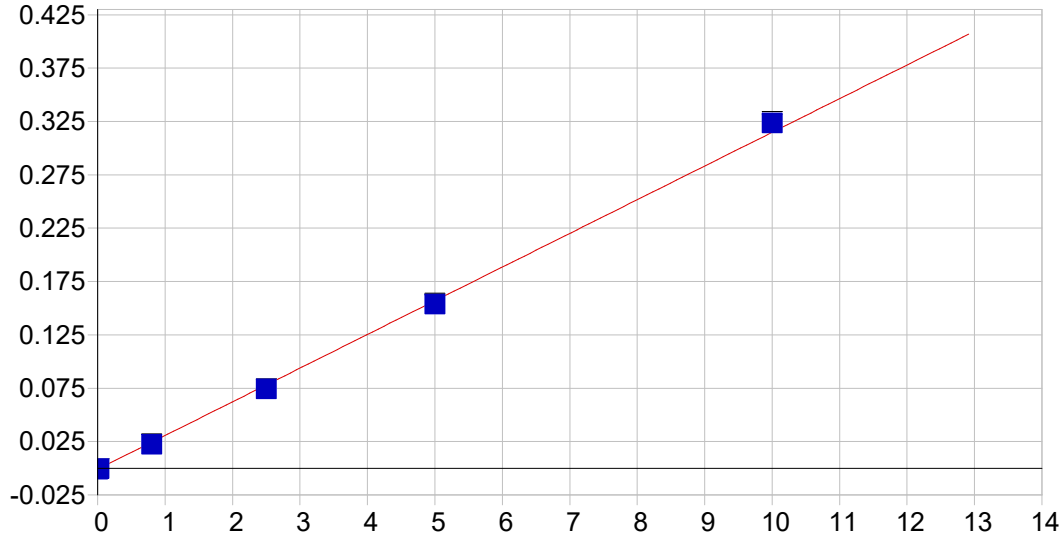
Si 288.158 {117}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000259	Re-Slope:	1.000000
A1 (Gain):	0.007749	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998572	Status:	OK.
Std Error of Est:	0.000045		
Predicted MDL:	0.005042		
Predicted MQL:	0.016806		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00016	.000	.000	.00026	.000	1
S1	.40000	.28085	-.119	-29.8	.00244	.000	1
S3	2.5000	2.4190	-.081	-3.24	.01930	.000	1
S4	5.0000	5.1127	.113	2.25	.04046	.000	1
S5	10.000	10.180	.180	1.80	.08031	.001	1
S2	.80000	.70571	-.094	-11.8	.00582	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



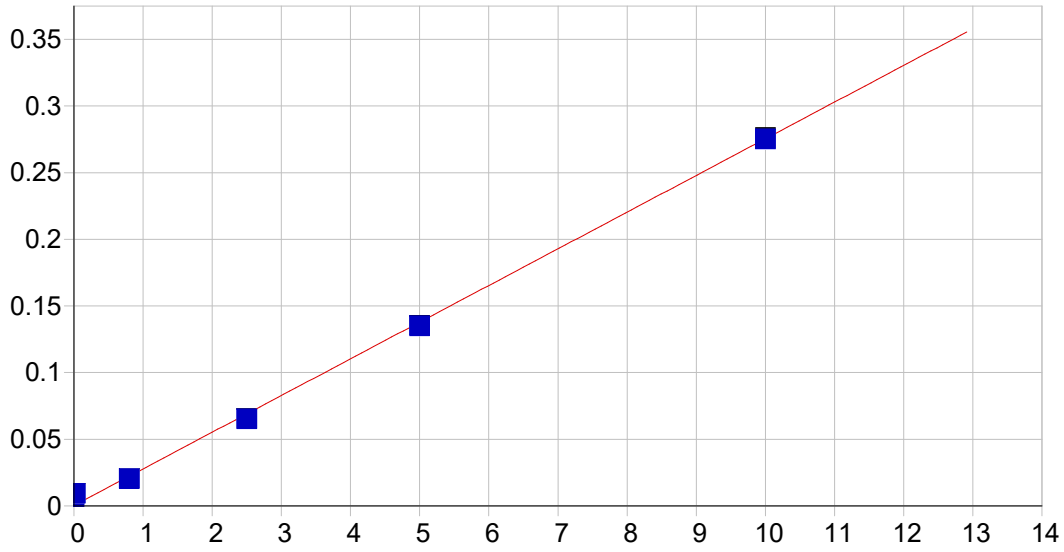
P 177.495 {490}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000889	Re-Slope:	1.000000
A1 (Gain):	0.031573	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999439	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.002432		
Predicted MQL:	0.008105		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00089	.000	1
S1	.02000	.01611	-.004	-19.5	-.00038	.000	1
S3	2.5000	2.3847	-.115	-4.61	.07439	.000	1
S4	5.0000	4.9008	-.099	-1.98	.15382	.001	1
S5	10.000	10.280	.280	2.80	.32362	.001	1
S2	.80000	.73879	-.061	-7.65	.02243	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



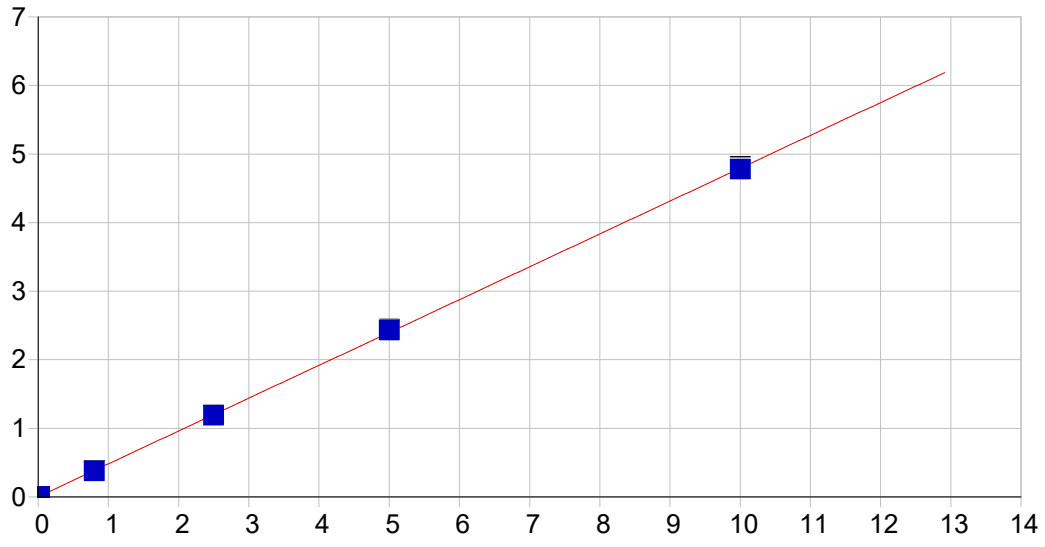
S 182.034 {485}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000266	Re-Slope:	1.000000
A1 (Gain):	0.027516	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.886778	Status:	OK.
Std Error of Est:	0.000335		
Predicted MDL:	0.002879		
Predicted MQL:	0.009598		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00031	-.000	.000	.00026	.000	1
S1	.02000	.33403	.314	1570.	.00943	.000	1
S3	2.5000	2.3653	-.135	-5.39	.06517	.000	1
S4	5.0000	4.8983	-.102	-2.03	.13469	.000	1
S5	10.000	10.001	.001	.008	.27473	.001	1
S2	.80000	.73411	-.066	-8.24	.02041	.000	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



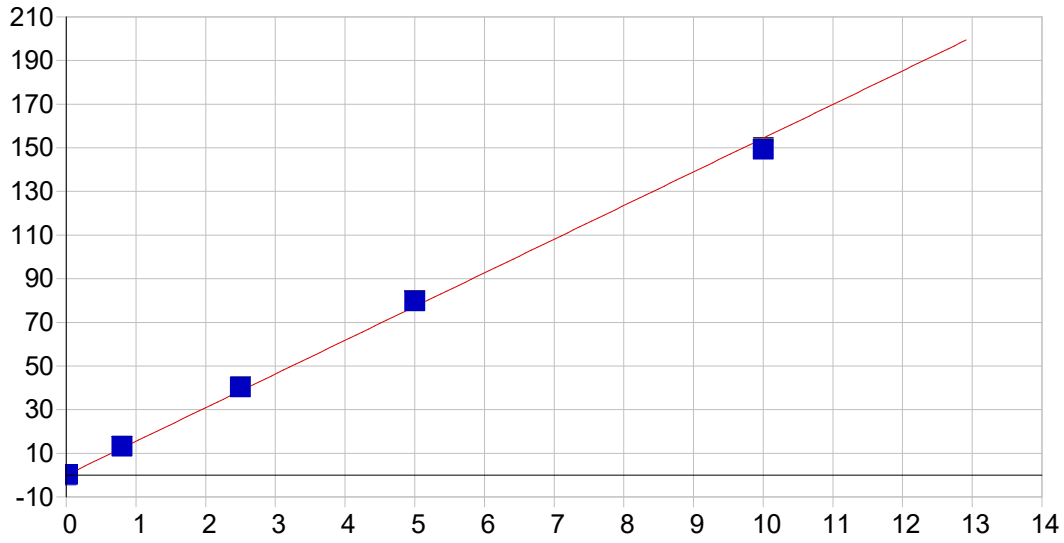
Li 670.784 { 50}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003223	Re-Slope:	1.000000
A1 (Gain):	0.478969	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	0.001642		
Predicted MQL:	0.005472		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00322	.000	1
S5	10.000	9.9713	-.029	-.287	4.7835	.035	1
S4	5.0000	5.0725	.072	1.45	2.4349	.011	1
S3	2.5000	2.4745	-.025	-1.02	1.1895	.002	1
S1	.02000	.01996	-.000	-.184	.01296	.001	1
S2	.80000	.78167	-.018	-2.29	.37796	.003	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



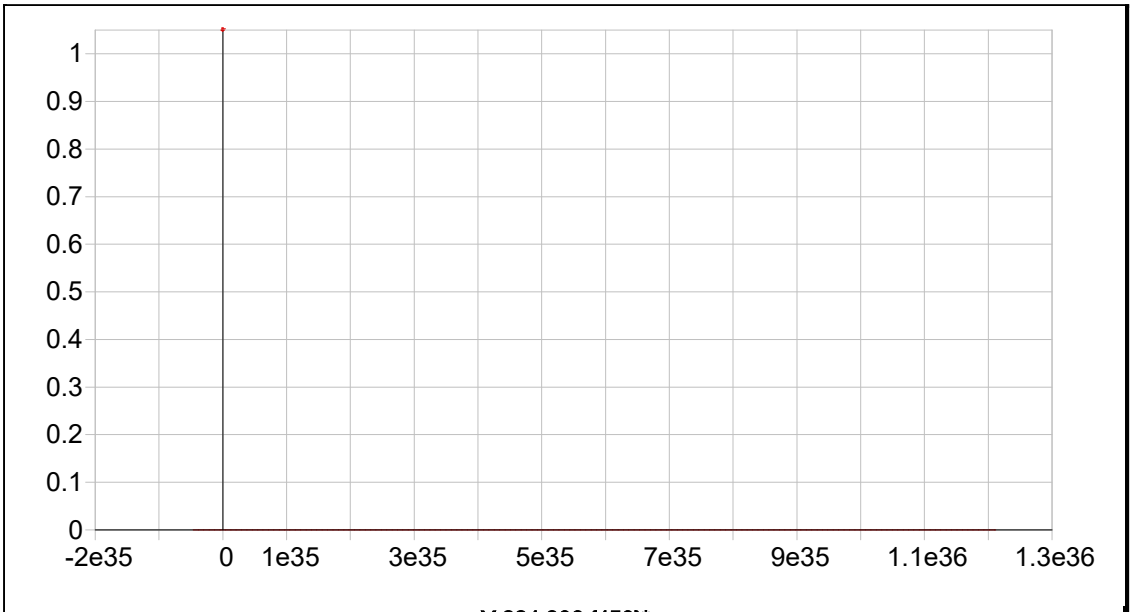
Sr 407.771 { 83}

Date of Fit:	11/9/2024 1:02:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000350	Re-Slope:	1.000000
A1 (Gain):	15.441032	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999325	Status:	OK.
Std Error of Est:	0.013317		
Predicted MDL:	0.000030		
Predicted MQL:	0.000101		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00039	.000	1
S1	.02000	.02052	.001	2.60	.31805	.002	1
S3	2.5000	2.6145	.114	4.58	40.408	.129	1
S4	5.0000	5.1633	.163	3.27	79.804	.250	1
S5	10.000	9.6700	-.330	-3.30	149.47	.557	1
S2	.80000	.85170	.052	6.46	13.163	.033	1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

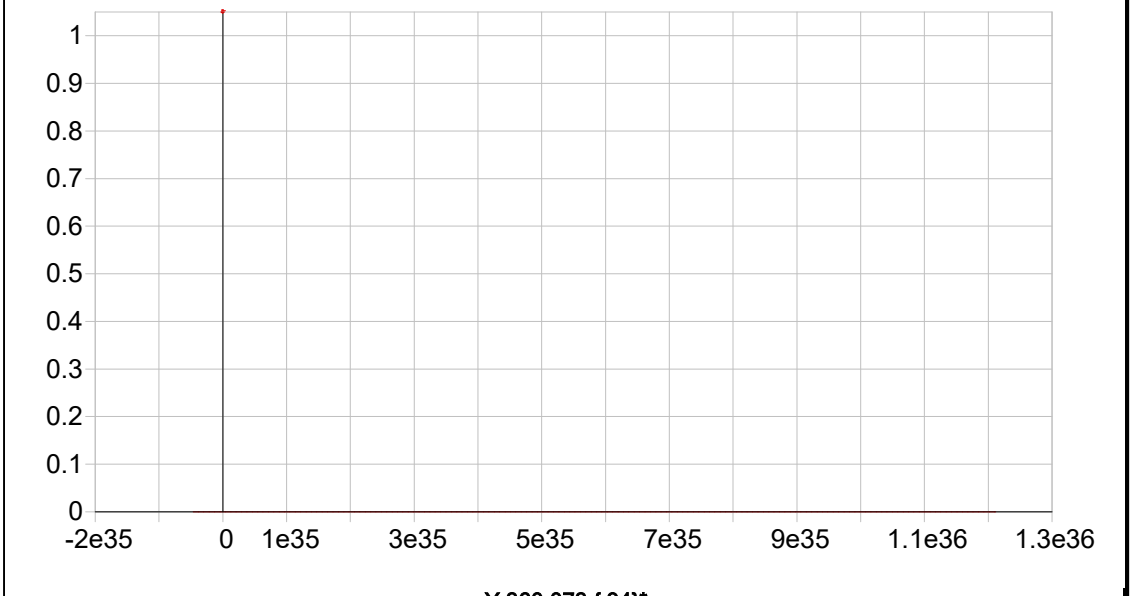


Y 224.306 {450}*

Date of Fit:	11/9/2024 1:02:07	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}*

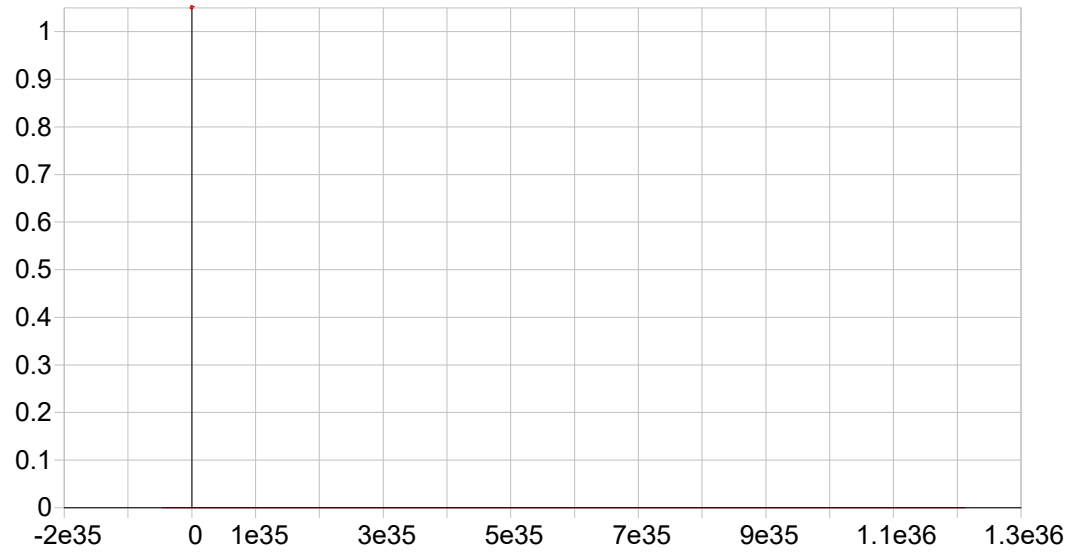
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

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



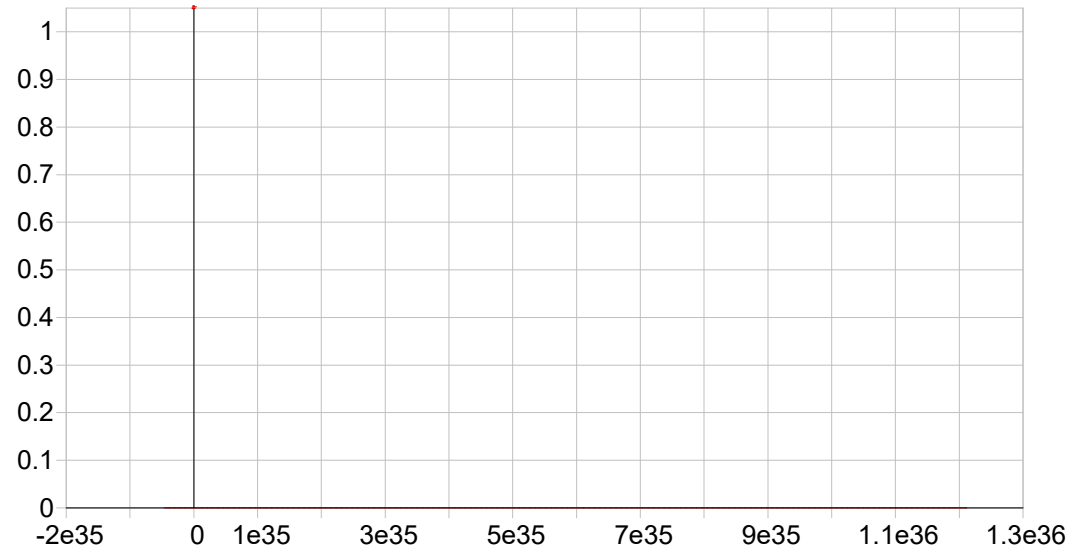
Y 371.030 { 91}*

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

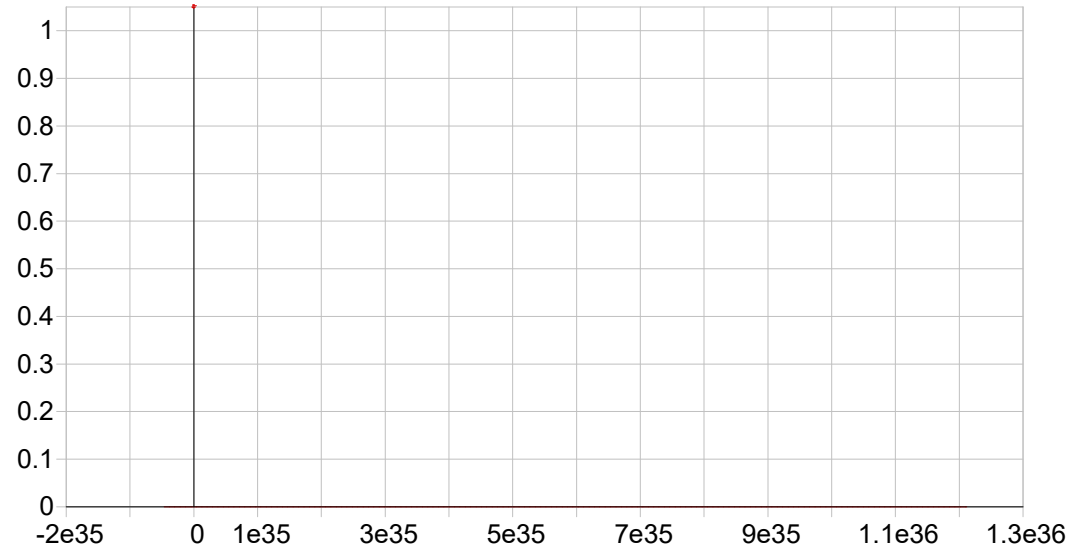
Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365



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:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

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:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S0 Acquired: 11/8/2024 13:34:14 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	-.00022	-.00046	-.00018	.00038	.00041	-.00013	-.00638	-.00079
Stddev	.00003	.00004	.00017	.00008	.00023	.00012	.00132	.00016
%RSD	14.122	8.4669	98.865	20.670	55.511	89.525	20.731	20.527
#1	-.00019	-.00045	-.00038	.00032	.00042	.00000	-.00680	-.00070
#2	-.00020	-.00050	-.00006	.00034	.00063	-.00019	-.00745	-.00098
#3	-.00025	-.00043	-.00009	.00047	.00018	-.00021	-.00490	-.00070

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00017	.00348	.00020	-.00006	.00003	.00006	.00018	-.00018
Stddev	.00012	.00018	.00003	.00016	.00017	.00001	.00006	.00012
%RSD	68.538	5.0811	14.309	247.42	516.46	19.640	34.652	65.086
#1	-.00004	.00359	.00018	-.00018	-.00015	.00008	.00014	-.00027
#2	-.00022	.00328	.00023	.00012	.00018	.00006	.00015	-.00005
#3	-.00025	.00358	.00018	-.00013	.00007	.00005	.00025	-.00021

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00011	-.00163	.01150	.00000	.01464	-.00012	.00173	.00034
Stddev	.00016	.00006	.00020	.00017	.00048	.00004	.00004	.00011
%RSD	144.84	3.7626	1.7109	6703.8	3.2874	32.826	2.2434	32.037
#1	.00007	-.00161	.01141	.00006	.01410	-.00010	.00175	.00045
#2	-.00018	-.00159	.01136	-.00019	.01478	-.00009	.00175	.00034
#3	-.00024	-.00171	.01172	.00014	.01503	-.00016	.00168	.00023

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00056	.00170	.00026	-.00089	.00026	.00322	-.00039
Stddev	.00003	.00013	.00002	.00003	.00002	.00021	.00020
%RSD	5.3303	7.6877	7.5719	3.4260	6.9270	6.6472	52.050
#1	.00055	.00185	.00028	-.00086	.00024	.00301	-.00016
#2	.00054	.00165	.00024	-.00088	.00027	.00321	-.00047
#3	.00059	.00160	.00026	-.00092	.00026	.00344	-.00055

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S0 Acquired: 11/8/2024 13:34:14 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2921.6	64390.	13007.	2285.6	4812.8
Stddev	5.5	217.	49.	15.0	17.6
%RSD	.18742	.33700	.38001	.65677	.36672
#1	2915.7	64294.	12952.	2276.7	4793.8
#2	2922.7	64638.	13020.	2303.0	4828.6
#3	2926.5	64237.	13049.	2277.3	4816.0

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S1 Acquired: 11/8/2024 13:38:41 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.00100	.00219	.00235	.00233	.00970	.00840	.38356	.02209
Stddev	.00014	.00006	.00012	.00004	.00003	.00043	.00258	.00025
%RSD	14.046	2.5454	5.1756	1.9174	.27370	5.1467	.67156	1.1149
#1	.00095	.00226	.00248	.00238	.00971	.00810	.38118	.02181
#2	.00116	.00217	.00234	.00234	.00973	.00889	.38629	.02229
#3	.00089	.00216	.00223	.00229	.00968	.00821	.38319	.02216

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01372	.11456	.00171	.02563	.01677	.00066	.01547	.03154
Stddev	.00009	.00083	.00004	.00004	.00004	.00001	.00027	.00052
%RSD	.67071	.72281	2.1084	.16196	.21650	2.0239	1.7700	1.6472
#1	.01365	.11361	.00168	.02559	.01673	.00066	.01516	.03098
#2	.01368	.11496	.00175	.02564	.01679	.00068	.01556	.03201
#3	.01383	.11512	.00169	.02567	.01679	.00066	.01568	.03162

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02413	.00182	.04375	.00518	.15396	.01316	.04778	.14855
Stddev	.00024	.00006	.00004	.00003	.00050	.00015	.00018	.00087
%RSD	.98200	3.2676	.09688	.54180	.32757	1.1470	.37414	.58229
#1	.02438	.00176	.04380	.00519	.15397	.01303	.04758	.14757
#2	.02391	.00188	.04373	.00515	.15344	.01332	.04793	.14920
#3	.02409	.00182	.04372	.00521	.15445	.01311	.04784	.14888

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00484	.11411	.00244	-.00038	.00943	.01296	.31805
Stddev	.00009	.00057	.00003	.00005	.00009	.00076	.00221
%RSD	1.7576	.49906	1.2534	12.388	.97928	5.8747	.69569
#1	.00475	.11361	.00246	-.00043	.00935	.01209	.31552
#2	.00490	.11473	.00241	-.00034	.00953	.01327	.31961
#3	.00489	.11400	.00246	-.00037	.00942	.01351	.31901

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S1 Acquired: 11/8/2024 13:38:41 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2940.9	63982.	13238.	2265.2	4766.8
Stddev	8.8	152.	62.	3.9	9.1
%RSD	.29832	.23767	.46513	.17304	.18988
#1	2951.0	63881.	13308.	2269.6	4777.1
#2	2936.2	63908.	13216.	2262.0	4760.3
#3	2935.5	64157.	13191.	2263.9	4762.8

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S2 Acquired: 11/8/2024 13:43:04 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.04716	.06110	.19489	.07726	.16182	.12788	6.2104	.16373
Stddev	.00025	.00043	.00117	.00035	.00102	.00033	.0225	.00006
%RSD	.53955	.70868	.60217	.45224	.62908	.25978	.36161	.03912
#1	.04701	.06135	.19372	.07709	.16068	.12754	6.2262	.16376
#2	.04702	.06060	.19490	.07703	.16211	.12792	6.2203	.16366
#3	.04746	.06134	.19607	.07766	.16266	.12820	6.1847	.16378

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.86771	.23247	.02636	.36572	.16923	.00542	.30961	.06587
Stddev	.00263	.00088	.00010	.00106	.00099	.00001	.00098	.00014
%RSD	.30356	.37662	.38155	.29069	.58559	.25742	.31789	.20730
#1	.86604	.23304	.02625	.36467	.16853	.00544	.31066	.06573
#2	.86633	.23146	.02645	.36570	.16879	.00542	.30948	.06600
#3	.87074	.23291	.02638	.36680	.17036	.00541	.30870	.06587

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.26132	.07215	.08018	.05486	1.4560	.02836	.37597	.62534
Stddev	.00105	.00019	.00040	.00034	.0021	.00015	.00053	.00176
%RSD	.40202	.26015	.49670	.62342	.14525	.51351	.14229	.28185
#1	.26029	.07214	.08057	.05472	1.4535	.02823	.37634	.62356
#2	.26128	.07197	.07978	.05525	1.4574	.02832	.37622	.62537
#3	.26239	.07235	.08019	.05462	1.4569	.02851	.37536	.62708

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09475	.47168	.00582	.02243	.02041	.37796	13.163
Stddev	.00045	.00012	.00002	.00011	.00004	.00343	.033
%RSD	.47013	.02517	.34342	.51236	.17660	.90678	.24822
#1	.09460	.47160	.00584	.02231	.02042	.38003	13.187
#2	.09441	.47181	.00582	.02254	.02037	.37986	13.177
#3	.09526	.47162	.00580	.02245	.02044	.37401	13.126

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S2 Acquired: 11/8/2024 13:43:04 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2818.6	61603.	13238.	2154.7	4486.9
Stddev	18.1	231.	53.	8.5	25.5
%RSD	.64177	.37573	.39758	.39449	.56818
#1	2837.7	61372.	13179.	2147.2	4514.4
#2	2816.2	61835.	13253.	2163.9	4482.4
#3	2801.8	61601.	13281.	2152.9	4464.0

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S3 Acquired: 11/8/2024 13:47:13 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.15171	.18526	.61751	.24806	.51945	.40229	19.008	.50682
Stddev	.00027	.00125	.00102	.00064	.00031	.00196	.034	.00302
%RSD	.18047	.67484	.16461	.25709	.06041	.48791	.18096	.59552
#1	.15180	.18669	.61795	.24764	.51974	.40006	19.010	.50614
#2	.15141	.18476	.61635	.24775	.51912	.40305	19.041	.51013
#3	.15193	.18435	.61823	.24880	.51950	.40376	18.972	.50421

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.7530	.71692	.08157	1.1601	.53241	.01739	.94399	.20570
Stddev	.0058	.00117	.00009	.0029	.00053	.00012	.00263	.00099
%RSD	.20906	.16268	.11392	.24794	.09934	.68738	.27811	.48169
#1	2.7547	.71558	.08168	1.1601	.53189	.01730	.94096	.20458
#2	2.7466	.71743	.08151	1.1573	.53241	.01734	.94549	.20648
#3	2.7577	.71774	.08152	1.1630	.53295	.01752	.94553	.20604

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.82805	.23347	.23853	.17350	4.6281	.09415	1.1541	1.9679
Stddev	.00216	.00039	.00063	.00096	.0220	.00018	.0059	.0018
%RSD	.26140	.16877	.26447	.55471	.47494	.19115	.51493	.08891
#1	.82803	.23379	.23799	.17239	4.6452	.09405	1.1524	1.9677
#2	.82589	.23303	.23836	.17410	4.6033	.09404	1.1607	1.9662
#3	.83022	.23360	.23922	.17400	4.6358	.09436	1.1492	1.9697

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.29693	1.4654	.01930	.07439	.06517	1.1895	40.408
Stddev	.00063	.0032	.00011	.00031	.00020	.0018	.129
%RSD	.21279	.21880	.57041	.41592	.29952	.15243	.32010
#1	.29718	1.4619	.01925	.07405	.06498	1.1884	40.259
#2	.29621	1.4682	.01922	.07447	.06516	1.1916	40.481
#3	.29740	1.4661	.01942	.07465	.06537	1.1886	40.485

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S3 Acquired: 11/8/2024 13:47:13 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2679.0	58015.	13259.	1986.9	4215.4
Stddev	6.9	85.	48.	11.3	8.7
%RSD	.25803	.14690	.35918	.56809	.20590
#1	2686.9	58059.	13281.	1976.4	4223.3
#2	2675.7	58069.	13204.	1998.8	4216.9
#3	2674.3	57916.	13291.	1985.6	4206.1

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S4 Acquired: 11/8/2024 13:51:31 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.30835	.36898	1.2255	.50455	1.0568	.81208	37.794	.98779
Stddev	.00021	.00470	.0037	.00117	.0032	.00090	.179	.00300
%RSD	.06722	1.2739	.30641	.23165	.30670	.11100	.47331	.30406
#1	.30849	.36592	1.2292	.50588	1.0604	.81107	37.592	.98974
#2	.30811	.36663	1.2254	.50367	1.0559	.81280	37.860	.98433
#3	.30845	.37440	1.2217	.50411	1.0541	.81238	37.931	.98931

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.5111	1.4118	.15838	2.3243	1.0600	.03497	1.8447	.41039
Stddev	.0169	.0041	.00074	.0075	.0041	.00007	.0084	.00187
%RSD	.30714	.29171	.46885	.32290	.38706	.19446	.45339	.45513
#1	5.5301	1.4113	.15864	2.3324	1.0641	.03504	1.8447	.41006
#2	5.5057	1.4079	.15895	2.3230	1.0600	.03491	1.8364	.40871
#3	5.4975	1.4161	.15754	2.3176	1.0559	.03497	1.8531	.41240

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.6506	.46765	.48680	.34699	9.2340	.19425	2.2662	3.9343
Stddev	.0048	.00049	.00096	.00050	.0331	.00047	.0061	.0083
%RSD	.28899	.10466	.19623	.14266	.35879	.24057	.26759	.21025
#1	1.6559	.46793	.48775	.34752	9.2204	.19469	2.2627	3.9419
#2	1.6492	.46794	.48584	.34654	9.2098	.19431	2.2626	3.9357
#3	1.6467	.46708	.48682	.34691	9.2717	.19376	2.2732	3.9255

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.58968	2.9184	.04046	.15382	.13469	2.4349	79.804
Stddev	.00124	.0061	.00023	.00075	.00032	.0112	.250
%RSD	.20946	.20809	.57727	.48864	.23704	.46043	.31324
#1	.59093	2.9204	.04019	.15467	.13469	2.4407	79.619
#2	.58847	2.9116	.04057	.15324	.13437	2.4220	80.088
#3	.58965	2.9232	.04062	.15354	.13501	2.4421	79.703

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S4 Acquired: 11/8/2024 13:51:31 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2538.6	55603.	13041.	1849.4	3950.6
Stddev	9.2	37.	39.	9.8	10.6
%RSD	.36364	.06582	.29820	.53060	.26832
#1	2532.7	55563.	13049.	1851.6	3945.7
#2	2533.8	55611.	13076.	1857.8	3943.3
#3	2549.2	55634.	12999.	1838.6	3962.7

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S5 Acquired: 11/8/2024 13:55:44 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.60794	.65552	2.4241	.98105	2.0732	1.5926	72.763	1.9064
Stddev	.00176	.00543	.0040	.00160	.0041	.0025	.277	.0063
%RSD	.28883	.82898	.16317	.16315	.19813	.15540	.38032	.33134
#1	.60643	.65215	2.4236	.97985	2.0699	1.5933	73.061	1.9055
#2	.60752	.66178	2.4283	.98044	2.0719	1.5946	72.515	1.9131
#3	.60986	.65261	2.4205	.98287	2.0778	1.5898	72.713	1.9005

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.921	2.7253	.30421	4.6268	2.0587	.06687	3.5363	.80349
Stddev	.017	.0052	.00114	.0078	.0056	.00007	.0065	.00171
%RSD	.15367	.18958	.37582	.16910	.27168	.11004	.18449	.21313
#1	10.911	2.7247	.30332	4.6204	2.0537	.06681	3.5421	.80211
#2	10.940	2.7307	.30382	4.6355	2.0577	.06685	3.5376	.80540
#3	10.911	2.7204	.30550	4.6244	2.0648	.06695	3.5292	.80295

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.2697	.91165	.94838	.67203	17.526	.37991	4.3693	7.5714
Stddev	.0044	.00097	.00746	.00131	.023	.00154	.0128	.0154
%RSD	.13389	.10590	.78680	.19475	.13283	.40660	.29322	.20320
#1	3.2665	.91141	.95542	.67169	17.526	.38050	4.3730	7.5540
#2	3.2746	.91083	.94056	.67347	17.549	.37816	4.3799	7.5768
#3	3.2679	.91271	.94917	.67092	17.503	.38107	4.3551	7.5833

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1552	5.6491	.08031	.32362	.27473	4.7835	149.47
Stddev	.0029	.0116	.00077	.00135	.00086	.0347	.56
%RSD	.24995	.20511	.95880	.41695	.31318	.72534	.37271
#1	1.1526	5.6613	.07952	.32231	.27374	4.8222	149.46
#2	1.1583	5.6479	.08037	.32355	.27517	4.7552	150.03
#3	1.1546	5.6382	.08105	.32500	.27529	4.7731	148.92

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: S5 Acquired: 11/8/2024 13:55:44 Type: Cal
Method: NON EPA-6010-200.7(v2466) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2471.8	55531.	13028.	1819.7	3757.6
Stddev	9.6	75.	43.	6.5	7.9
%RSD	.38723	.13442	.33383	.35691	.21055
#1	2480.4	55476.	12997.	1812.2	3766.4
#2	2473.7	55616.	13010.	1823.3	3755.2
#3	2461.5	55500.	13078.	1823.7	3751.2

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICV01 Acquired: 11/8/2024 13:59:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.004570	.9749593	.9992513	1.004306	.9794193	2.545800
Stddev	.006580	.0092673	.0010954	.001370	.0033107	.004669
%RSD	.6549873	.9505344	.1096204	.1364569	.3380307	.1834173
#1	.997773	.9770861	.9987278	1.003033	.9768459	2.542061
#2	1.005027	.9648134	1.000510	1.005757	.9782578	2.551034
#3	1.010909	.9829783	.998516	1.004127	.9831543	2.544305

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5125044	.5111655	.4967921	10.06587	.5139139	.5061873
Stddev	.0016518	.0011691	.0008198	.05827	.0006874	.0002220
%RSD	.3223011	.2287047	.1650178	.5788745	.1337623	.0438513
#1	.5143891	.5111804	.4961129	10.00224	.5146057	.5059311
#2	.5113081	.5099891	.4977027	10.11661	.5132309	.5063094
#3	.5118161	.5123271	.4965605	10.07877	.5139051	.5063214

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5209084	9.657425	.5190216	5.939606	.5091447	.2505306
Stddev	.0012815	.074161	.0024896	.035894	.0006338	.0006782
%RSD	.2460113	.7679170	.4796774	.6043149	.1244818	.2706952
#1	.5197264	9.641248	.5165201	5.902458	.5084377	.2506936
#2	.5207285	9.738339	.5214991	5.974098	.5093344	.2511124
#3	.5222703	9.592688	.5190457	5.942260	.5096620	.2497858

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 9.174193	.4962146	1.026568	9.545844	2.386465	2.441894
Stddev	.077545	.0004295	.004266	.041110	.005272	.005538
%RSD	.8452483	.0865491	.4155899	.4306555	.2208951	.2267791
#1	9.260438	.4958265	1.030376	9.568384	2.385619	2.437302
#2	9.151915	.4966760	1.027370	9.570754	2.381667	2.440338
#3	9.110226	.4961414	1.021957	9.498394	2.392108	2.448044

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICV01 Acquired: 11/8/2024 13:59:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.348754	2.402417	F 1.794923	F .0038379	F -.007058	F .0002741
Stddev	.003035	.003137	.021627	.0017818	.001377	.0002962
%RSD	.1292258	.1305748	1.204917	46.42604	19.50533	108.0754
#1	2.347031	2.403554	1.798076	.0058941	-.007542	.0003053
#2	2.346972	2.404826	1.814801	.0028712	-.005505	.0005535
#3	2.352258	2.398870	1.771892	.0027484	-.008127	-.000037

Elem	Sr4077
Units	ppm
Avg	F -.008228
Stddev	.000050
%RSD	.6047795
#1	-.008234
#2	-.008274
#3	-.008175

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2668.043	59747.43	13425.98	1971.790	4295.415
Stddev	10.319	250.60	20.12	11.963	11.365
%RSD	.3867583	.4194284	.1498774	.6066910	.2645901
#1	2677.331	59565.85	13407.71	1964.488	4307.883
#2	2669.863	59643.12	13447.55	1965.287	4292.727
#3	2656.935	60033.34	13422.68	1985.596	4285.635

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: LLICV01 Acquired: 11/8/2024 14:11:56 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194919	.0375704	.0118418	.0205979	.0483845	.1090093
Stddev	.0004601	.0004285	.0008155	.0011045	.0012843	.0049251
%RSD	2.360612	1.140420	6.886461	5.362372	2.654383	4.518014
#1	.0200175	.0371156	.0119957	.0195072	.0493499	.1097750
#2	.0192962	.0379665	.0109604	.0205706	.0488767	.1135066
#3	.0191619	.0376291	.0125694	.0217158	.0469269	.1037462

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0952841	.0056574	.0063374	1.969275	.0094751	.0282867
Stddev	.0002351	.0000562	.0000128	.004647	.0002543	.0001334
%RSD	.2467335	.9934795	.2025160	.2359931	2.684108	.4717905
#1	.0955151	.0056254	.0063517	1.964900	.0094996	.0284404
#2	.0952922	.0057223	.0063338	1.968771	.0092095	.0282199
#3	.0950451	.0056245	.0063269	1.974154	.0097164	.0281999

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0228276	.0935821	.0198040	1.951300	.0377552	.0106280
Stddev	.0002660	.0022637	.0001666	.007528	.0002070	.0001388
%RSD	1.165177	2.418984	.8413460	.3858105	.5483671	1.305683
#1	.0231115	.0941680	.0199100	1.959610	.0379911	.0105660
#2	.0225842	.0910830	.0196120	1.944934	.0376705	.0105311
#3	.0227870	.0954953	.0198900	1.949358	.0376039	.0107870

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.634064	.0385708	.0420779	1.874870	.1017318	.2000362
Stddev	.008680	.0015142	.0001817	.002274	.0005126	.0006128
%RSD	.5312192	3.925854	.4319164	.1212620	.5038674	.3063411
#1	1.635010	.0368854	.0422391	1.872601	.1016231	.1996451
#2	1.642233	.0390105	.0421137	1.877148	.1012823	.1997212
#3	1.624950	.0398166	.0418810	1.874862	.1022901	.2007425

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: LLICV01 Acquired: 11/8/2024 14:11:56 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0361372	F .1922366	F .3186678	F .0141743	F .3445606	.0160312
Stddev	.0003072	.0004247	.0023483	.0032203	.0022957	.0018010
%RSD	.8499706	.2209413	.7369119	22.71968	.6662595	11.23441
#1	.0358632	.1917551	.3178226	.0105525	.3471223	.0176953
#2	.0364692	.1923967	.3213218	.0152553	.3426894	.0162792
#3	.0360792	.1925580	.3168592	.0167150	.3438701	.0141190

Elem	Sr4077
Units	ppm
Avg	.0200956
Stddev	.0000527
%RSD	.2621906
#1	.0201508
#2	.0200903
#3	.0200458

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2606.318	59083.22	13387.72	1890.029	4366.669
Stddev	4.375	110.88	30.88	7.703	6.775
%RSD	.1678468	.1876599	.2306956	.4075614	.1551488
#1	2611.342	58975.96	13354.00	1881.494	4359.876
#2	2603.353	59076.31	13414.64	1892.127	4373.426
#3	2604.259	59197.39	13394.52	1896.466	4366.705

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICB01 Acquired: 11/8/2024 14:16:16 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000814	.0000356	.0003058	.0007772	-.001071	.0022604	-.003618
Stddev	.001454	.0023759	.0012415	.0007763	.000491	.0040022	.000275
%RSD	178.5906	6668.759	406.0431	99.89524	45.84594	177.0569	7.601942
#1	-.002081	-.000407	-.000838	.0006299	-.001290	.0022889	-.003713
#2	-.001136	.002602	.001626	.0000850	-.000508	.0062483	-.003833
#3	.000774	-.002088	.000130	.0016166	-.001413	-.001756	-.003308

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000027	-.000041	.0117247	-.000108	.0000822	.0000398	-.002331
Stddev	.000047	.000012	.0045492	.000393	.0000527	.0001653	.002573
%RSD	175.4786	28.23519	38.79988	363.4813	64.04663	414.9185	110.3692
#1	-.000012	-.000043	.0166615	.000180	.0000651	.0000578	-.002838
#2	-.000080	-.000052	.0077020	.000052	.0000402	-.000134	.000458
#3	.000011	-.000029	.0108107	-.000556	.0001413	.000195	-.004612

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000136	.0000996	-.000218	.0006382	-.156653	-.000791	.0002439
Stddev	.000178	.0076098	.000091	.0000687	.007761	.001143	.0002509
%RSD	130.7843	7640.711	41.91764	10.76983	4.954258	144.5387	102.8914
#1	-.000335	.0053454	-.000175	.0006925	-.164716	-.001587	-.000043
#2	.000007	-.008628	-.000156	.0005609	-.156009	.000519	.000350
#3	-.000080	.003582	-.000323	.0006612	-.149234	-.001304	.000424

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.025029	.0001357	.0001144	-.000204	.0002764	-.004796	-.006174
Stddev	.019690	.0000744	.0001075	.000928	.0006128	.003101	.002567
%RSD	78.66783	54.80530	93.92930	455.2963	221.7175	64.65971	41.58371
#1	-.003770	.0002074	.0002098	-.001073	-.000304	-.001822	-.003336
#2	-.028678	.0001408	-.000002	.000774	.000917	-.004556	-.006852
#3	-.042639	.0000589	.000135	-.000312	.000216	-.008010	-.008335

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICB01 Acquired: 11/8/2024 14:16:16 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005568	-.002050	.0000103
Stddev	.0014293	.001111	.0000197
%RSD	256.6975	54.18705	190.3131
#1	-.000910	-.000914	.0000276
#2	.000635	-.003133	.0000145
#3	.001945	-.002102	-.000011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.398	58883.80	13452.57	1911.477	4484.702
Stddev	4.073	152.58	37.15	13.771	6.408
%RSD	.1538599	.2591241	.2761475	.7204350	.1428753
#1	2647.218	59030.54	13456.68	1925.515	4486.174
#2	2651.558	58725.98	13413.54	1897.989	4490.246
#3	2643.417	58894.88	13487.49	1910.926	4477.687

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CRI01 Acquired: 11/8/2024 14:20:36 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201072	.0372759	.0117512	.0197543	.0477765	.1038762
Stddev	.0015579	.0014418	.0013954	.0013658	.0008143	.0017441
%RSD	7.747911	3.867768	11.87434	6.914009	1.704398	1.679041
#1	.0185819	.0363806	.0129228	.0204577	.0476992	.1058898
#2	.0200438	.0389391	.0121234	.0181802	.0470037	.1028400
#3	.0216958	.0365081	.0102075	.0206250	.0486267	.1028987

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0949642	.0056201	.0061640	1.953668	.0092386	.0277576
Stddev	.0006485	.0000616	.0000650	.009374	.0003196	.0001974
%RSD	.6829308	1.096994	1.054385	.4797949	3.459057	.7109979
#1	.0942157	.0056877	.0061158	1.958948	.0090777	.0279115
#2	.0953573	.0055670	.0061383	1.942846	.0090315	.0275351
#3	.0953198	.0056056	.0062379	1.959212	.0096067	.0278261

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213645	.0928966	.0195703	1.934481	.0367890	.0102793
Stddev	.0000796	.0013460	.0001657	.013004	.0002309	.0002015
%RSD	.3726543	1.448865	.8468573	.6722265	.6277234	1.960578
#1	.0212773	.0914282	.0194690	1.928696	.0367799	.0102428
#2	.0214332	.0940718	.0197616	1.925372	.0365628	.0104966
#3	.0213832	.0931899	.0194804	1.949373	.0370244	.0100985

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.598735	.0385171	.0418638	1.840529	.0992034	.1980813
Stddev	.011584	.0002478	.0002248	.006706	.0008886	.0004361
%RSD	.7245563	.6434850	.5369517	.3643636	.8957309	.2201425
#1	1.587104	.0382318	.0421194	1.842200	.0996588	.1975878
#2	1.598829	.0386786	.0417751	1.833145	.0981794	.1984144
#3	1.610271	.0386410	.0416969	1.846242	.0997720	.1982418

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CRI01 Acquired: 11/8/2024 14:20:36 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0359706	F .1904066	.3091172	F .0123653	F .3343927	.0168826
Stddev	.0008832	.0004984	.0073509	.0007933	.0025827	.0008288
%RSD	2.455405	.2617276	2.378042	6.415909	.7723460	4.909414
#1	.0357490	.1909720	.3013965	.0114743	.3373568	.0160655
#2	.0352193	.1902169	.3099229	.0129951	.3326267	.0168596
#3	.0369436	.1900310	.3160320	.0126264	.3331945	.0177227

Elem	Sr4077
Units	ppm
Avg	.0199465
Stddev	.0000519
%RSD	.2602165
#1	.0199999
#2	.0199434
#3	.0198962

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2676.674	59835.69	13467.68	1933.952	4518.100
Stddev	4.648	48.96	47.43	4.376	2.892
%RSD	.1736399	.0818272	.3521670	.2262927	.0640060
#1	2682.041	59863.06	13418.77	1930.888	4521.422
#2	2674.018	59864.85	13513.48	1938.964	4516.733
#3	2673.964	59779.16	13470.80	1932.005	4516.145

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICSA01 Acquired: 11/8/2024 14:24:53 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055244	-.000888	.0099702	-.014361	-.001652	263.9839
Stddev	.0010329	.001140	.0019688	.001990	.000604	.7125
%RSD	18.69694	128.3738	19.74722	13.85863	36.57617	.2698906
#1	.0047384	-.001942	.0109186	-.014148	-.001899	263.4759
#2	.0051405	.000322	.0077066	-.012485	-.000963	264.7983
#3	.0066943	-.001044	.0112853	-.016449	-.002093	263.6775

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018402	.0012918	.0061101	243.3676	.0542899	.0021080
Stddev	.0002408	.0001180	.0002294	.2910	.0006785	.0000731
%RSD	13.08698	9.134869	3.754802	.1195578	1.249870	3.469572
#1	.0018645	.0013906	.0061558	243.5075	.0550079	.0020329
#2	.0020679	.0013237	.0058612	243.5622	.0536592	.0021122
#3	.0015881	.0011611	.0063132	243.0331	.0542025	.0021790

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142946	98.64811	.0036521	267.2971	.0026268	-.000087
Stddev	.0000338	.18170	.0004700	.0680	.0002564	.000186
%RSD	.2361605	.1841908	12.86927	.0254357	9.759045	213.0087
#1	.0143246	98.45431	.0032519	267.2310	.0028142	-.000214
#2	.0142581	98.67538	.0041697	267.3668	.0023347	.000126
#3	.0143011	98.81463	.0035347	267.2934	.0027317	-.000174

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149784	.0089740	.0070380	.0177604	.0461764	.0000940
Stddev	.0110238	.0003277	.0004737	.0152733	.0007954	.0005939
%RSD	73.59800	3.651240	6.730645	85.99640	1.722489	631.7223
#1	.0022535	.0086310	.0075824	.0002222	.0453404	.0007464
#2	.0210561	.0092838	.0068123	.0249227	.0462650	-.000049
#3	.0216256	.0090072	.0067194	.0281364	.0469237	-.000415

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICSA01 Acquired: 11/8/2024 14:24:53 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003445	-.000642	.0052732	-.002783	-.012855	F .0390289
Stddev	.001024	.000493	.0029789	.002804	.004724	.0013948
%RSD	29.72974	76.83487	56.49162	100.7589	36.74439	3.573762
#1	-.002612	-.001146	.0087096	-.005971	-.011815	.0374674
#2	-.003135	-.000160	.0034234	-.001677	-.018012	.0394676
#3	-.004588	-.000619	.0036866	-.000700	-.008738	.0401515

Elem	Sr4077
Units	ppm
Avg	.0048396
Stddev	.0004051
%RSD	8.370502
#1	.0052965
#2	.0046980
#3	.0045242

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2309.865	51003.22	12711.28	1640.400	3486.937
Stddev	5.009	43.64	51.06	7.137	7.321
%RSD	.2168323	.0855575	.4016993	.4350813	.2099587
#1	2307.775	51040.38	12661.33	1644.952	3482.682
#2	2315.580	51014.12	12709.14	1644.073	3495.390
#3	2306.241	50955.17	12763.38	1632.174	3482.737

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICSAB01 Acquired: 11/8/2024 14:30:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1151646	.0902440	.0572539	.0311879	.6223665	259.9963
Stddev	.0012231	.0015243	.0017624	.0019577	.0017137	2.3092
%RSD	1.062046	1.689094	3.078183	6.277151	.2753544	.8881707
#1	.1164799	.0919822	.0553229	.0289365	.6205842	261.4271
#2	.1149526	.0891351	.0587755	.0321375	.6225129	261.2296
#3	.1140614	.0896147	.0576635	.0324897	.6240022	257.3323

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4963016	.4927526	.9789206	236.8755	.5210912	.4984932
Stddev	.0021433	.0019454	.0012470	.4594	.0006789	.0007058
%RSD	.4318512	.3947939	.1273897	.1939304	.1302784	.1415879
#1	.4942635	.4919880	.9783888	236.5567	.5204655	.4980002
#2	.4985365	.4949641	.9780277	237.4020	.5209952	.4981777
#3	.4961049	.4913057	.9803454	236.6677	.5218130	.4993017

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4993937	95.67357	.4797237	259.8648	.9805531	.1978853
Stddev	.0004794	.21342	.0020879	.3148	.0011604	.0004981
%RSD	.0960037	.2230689	.4352326	.1211281	.1183360	.2517106
#1	.4993078	95.80524	.4785820	259.7192	.9805087	.1983987
#2	.4999103	95.42733	.4821335	260.2260	.9794156	.1974041
#3	.4989630	95.78813	.4784556	259.6491	.9817350	.1978530

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.036567	.4948421	1.091130	-.006027	.8798631	1.052285
Stddev	.026752	.0010450	.003955	.009527	.0043875	.002857
%RSD	73.16023	.2111688	.3625107	158.0866	.4986576	.2714991
#1	-.063909	.4936433	1.086578	-.016076	.8801117	1.054111
#2	-.035345	.4955602	1.093076	.002874	.8841211	1.053750
#3	-.010446	.4953228	1.093735	-.004877	.8753566	1.048992

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICSAB01 Acquired: 11/8/2024 14:30:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .7811724	F .7854504	F .6551978	F .0029954	F -.013356	F .0390467
Stddev	.0011544	.0027777	.0073326	.0011113	.006773	.0008778
%RSD	.1477725	.3536492	1.119144	37.09936	50.71561	2.247976
#1	.7807212	.7822800	.6522710	.0038035	-.019042	.0400343
#2	.7824842	.7874564	.6497806	.0034545	-.015163	.0387505
#3	.7803118	.7866149	.6635418	.0017281	-.005862	.0383554

Elem	Sr4077
Units	ppm
Avg	F .0059344
Stddev	.0004561
%RSD	7.686095
#1	.0056204
#2	.0064576
#3	.0057251

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2244.896	51385.89	12821.57	1613.118	3431.231
Stddev	7.690	138.02	24.31	6.997	10.971
%RSD	.3425661	.2685991	.1896167	.4337724	.3197509
#1	2252.557	51287.07	12818.42	1621.056	3443.019
#2	2237.177	51543.59	12798.99	1607.845	3421.317
#3	2244.954	51327.01	12847.30	1610.453	3429.356

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICSADLX20 Acquired: 11/8/2024 14:35:45 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009402	.0006986	-.001291	.0011292	-.001237	12.89932	-.004649
Stddev	.0013990	.0003762	.001071	.0002664	.000518	.01405	.000350
%RSD	148.8015	53.85767	82.92184	23.58847	41.89078	.1089055	7.530694
#1	.0022384	.0009605	-.002317	.0008314	-.001250	12.90596	-.005043
#2	-.000542	.0002675	-.001375	.0013447	-.000712	12.90881	-.004533
#3	.001124	.0008678	-.000181	.0012116	-.001748	12.88318	-.004372

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001106	.0003985	12.30951	.0026056	-.000011	.0005996	4.836332
Stddev	.0000397	.0000558	.08318	.0001031	.000137	.0000680	.011253
%RSD	35.93356	14.00101	.6757194	3.954815	1206.051	11.34711	.2326757
#1	.0000848	.0004614	12.21349	.0026154	-.000057	.0006613	4.835784
#2	.0000906	.0003548	12.35936	.0024979	-.000120	.0006110	4.825363
#3	.0001564	.0003794	12.35568	.0027033	.000143	.0005266	4.847849

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001068	12.72342	.0003127	.0006413	-.178462	.0012926	.0008924
Stddev	.0002141	.09247	.0002456	.0002107	.009457	.0008258	.0001904
%RSD	200.4026	.7267921	78.55366	32.84844	5.299008	63.88290	21.33239
#1	.0002649	12.62016	.0005862	.0006788	-.184349	.0014790	.0007480
#2	.0001924	12.75152	.0001110	.0004144	-.183483	.0020093	.0008211
#3	-.000137	12.79859	.0002408	.0008307	-.167554	.0003896	.0011081

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.038540	.0016123	.0003011	-.002042	-.000107	-.009063	-.003181
Stddev	.000859	.0002189	.0001478	.000589	.000039	.000758	.002263
%RSD	2.230029	13.57545	49.10974	28.82384	36.76823	8.360059	71.12400
#1	-.039383	.0017777	.0001705	-.002248	-.000062	-.008190	-.005644
#2	-.038571	.0013641	.0004616	-.001378	-.000125	-.009452	-.001194
#3	-.037665	.0016950	.0002710	-.002500	-.000134	-.009548	-.002705

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICSADLX20 Acquired: 11/8/2024 14:35:45 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000015	-.000402	.0003596
Stddev	.002194	.000759	.0000337
%RSD	14830.45	188.5295	9.379566
#1	.000115	-.000021	.0003465
#2	-.002271	.000090	.0003980
#3	.002111	-.001276	.0003345

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2555.136	57451.68	13515.71	1808.530	4223.202
Stddev	1.062	84.73	37.65	5.094	4.699
%RSD	.0415760	.1474782	.2785472	.2816542	.1112702
#1	2556.332	57434.33	13545.99	1813.889	4228.498
#2	2554.771	57376.97	13473.56	1803.752	4219.532
#3	2554.304	57543.74	13527.59	1807.948	4221.576

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICSABDLX20 Acquired: 11/8/2024 14:40:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064266	.0059006	.0016539	.0032497	.0287630	12.81309	.0210544
Stddev	.0026678	.0006021	.0005460	.0008851	.0005256	.01991	.0002618
%RSD	41.51197	10.20361	33.01075	27.23677	1.827501	.1553821	1.243564
#1	.0093146	.0061409	.0010501	.0033729	.0289427	12.79631	.0208355
#2	.0059113	.0052155	.0021128	.0023094	.0291752	12.83509	.0209833
#3	.0040541	.0063454	.0017988	.0040667	.0281710	12.80787	.0213444

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0260219	.0492731	12.33259	.0306246	.0248947	.0268896	4.819927
Stddev	.0000814	.0000959	.03536	.0003133	.0001958	.0001271	.026809
%RSD	.3126729	.1946886	.2867016	1.022983	.7863929	.4726790	.5562112
#1	.0260280	.0493668	12.35400	.0308872	.0249849	.0268744	4.818640
#2	.0259376	.0492775	12.29178	.0307086	.0250291	.0267708	4.847357
#3	.0261000	.0491751	12.35199	.0302778	.0246701	.0270237	4.793785

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0254487	12.75818	.0503983	.0098494	-.174902	.0243686	.0554091
Stddev	.0001400	.03664	.0003247	.0001497	.010474	.0008586	.0002834
%RSD	.5503337	.2872230	.6442964	1.520014	5.988575	3.523372	.5114794
#1	.0252934	12.79003	.0501648	.0097776	-.185382	.0253567	.0551198
#2	.0254871	12.71813	.0502609	.0100215	-.164434	.0238042	.0554212
#3	.0255655	12.76639	.0507691	.0097491	-.174889	.0239448	.0556862

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.041906	.0401222	.0426071	.0382368	.0404113	.0240232	-.004867
Stddev	.019968	.0007598	.0002041	.0007303	.0005677	.0039654	.002249
%RSD	47.64932	1.893710	.4791189	1.910040	1.404787	16.50660	46.20182
#1	-.026506	.0402782	.0427221	.0380097	.0409963	.0225394	-.002303
#2	-.034745	.0392966	.0427277	.0376470	.0403748	.0285165	-.005793
#3	-.064467	.0407919	.0423714	.0390537	.0398627	.0210137	-.006505

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: ICSABDLX20 Acquired: 11/8/2024 14:40:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000927	.0011521	.0004236
Stddev	.001929	.0003743	.0000294
%RSD	208.1024	32.48977	6.932663
#1	-.001301	.0007279	.0004263
#2	.001162	.0014360	.0003930
#3	-.002642	.0012924	.0004516

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2592.775	57941.22	13467.62	1861.856	4272.727
Stddev	4.808	264.63	24.81	2.133	7.610
%RSD	.1854430	.4567281	.1841830	.1145382	.1780991
#1	2587.697	57792.43	13441.53	1863.395	4264.700
#2	2593.372	57784.47	13490.91	1859.422	4273.645
#3	2597.257	58246.76	13470.41	1862.752	4279.836

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV01 Acquired: 11/8/2024 14:44:16 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.945423	4.768815	4.867981	5.024258	5.044727	9.956482	9.532880
Stddev	.003292	.008141	.005681	.015365	.009190	.011452	.046147
%RSD	.0665618	.1707115	.1167072	.3058245	.1821784	.1150193	.4840854
#1	4.943265	4.760179	4.863099	5.020854	5.039088	9.945232	9.543425
#2	4.943791	4.776348	4.866626	5.010880	5.039760	9.956089	9.572843
#3	4.949211	4.769918	4.874217	5.041040	5.055332	9.968125	9.482373

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2411947	2.394185	24.13931	1.046181	2.424838	1.257263	4.848382
Stddev	.0011648	.003746	.10467	.002748	.006240	.002597	.024386
%RSD	.4829207	.1564816	.4335975	.2626394	.2573201	.2065471	.5029708
#1	.2402021	2.392617	24.02159	1.049353	2.423486	1.256960	4.822604
#2	.2424770	2.391477	24.22186	1.044613	2.419385	1.254831	4.871085
#3	.2409051	2.398461	24.17449	1.044575	2.431642	1.259998	4.851455

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.372355	24.24441	2.435495	1.234202	24.31948	2.447746	2.529829
Stddev	.008492	.18883	.003304	.001554	.20463	.005177	.000760
%RSD	.3579426	.7788583	.1356716	.1258992	.8414058	.2115148	.0300306
#1	2.363102	24.02664	2.433891	1.235093	24.55142	2.441868	2.529844
#2	2.379792	24.36272	2.433299	1.235104	24.16446	2.449738	2.530581
#3	2.374170	24.34387	2.439295	1.232407	24.24257	2.451631	2.529062

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.59632	4.817205	4.990905	4.791494	4.805671	4.850529	5.024989
Stddev	.13911	.014732	.010180	.007316	.002787	.029283	.027725
%RSD	.5655891	.3058297	.2039727	.1526887	.0579915	.6037060	.5517504
#1	24.74808	4.804444	4.988001	4.783626	4.804729	4.830294	5.006217
#2	24.47483	4.833328	4.982492	4.792765	4.808807	4.837185	5.011917
#3	24.56606	4.813842	5.002221	4.798091	4.803477	4.884107	5.056834

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV01 Acquired: 11/8/2024 14:44:16 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.723200	4.739812	4.930701
Stddev	.011242	.035221	.034438
%RSD	.2380259	.7430887	.6984421
#1	4.734419	4.779644	4.933089
#2	4.711934	4.727009	4.963882
#3	4.723246	4.712784	4.895131

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2490.688	56339.17	13337.41	1793.839	3952.143
Stddev	5.589	126.09	31.02	.464	7.128
%RSD	.2243777	.2237970	.2325727	.0258523	.1803668
#1	2489.445	56198.40	13347.91	1794.203	3950.479
#2	2496.794	56377.37	13302.51	1793.997	3959.956
#3	2485.826	56441.73	13361.82	1793.317	3945.993

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB01 Acquired: 11/8/2024 14:50:43 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003213	.0000491	-.000672	.0016925	-.000522	.0085644	-.004267
Stddev	.0018357	.0012402	.000283	.0008375	.000560	.0005540	.000375
%RSD	571.3774	2523.869	42.10323	49.48223	107.2105	6.468317	8.784027
#1	.0019396	.0011472	-.000993	.0013235	.000124	.0079270	-.004693
#2	.0006976	.0002962	-.000561	.0011029	-.000833	.0089302	-.004117
#3	-.001673	-.001296	-.000461	.0026512	-.000858	.0088359	-.003990

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000004	-.000023	.0057873	-.000032	.0001207	-.000074	-.001247
Stddev	.000022	.000060	.0028036	.000144	.0001176	.000282	.002473
%RSD	541.0473	263.9549	48.44434	450.1003	97.43092	382.7324	198.2658
#1	.000022	-.000056	.0080300	.000005	-.000011	.000192	-.004090
#2	-.000015	.000046	.0026441	.000090	.000216	-.000371	.000400
#3	-.000019	-.000059	.0066878	-.000190	.000156	-.000043	-.000051

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000238	.0067300	-.000267	.0004749	-.194922	-.000747	.0005607
Stddev	.000017	.0112618	.000167	.0002313	.009740	.000422	.0000694
%RSD	7.347838	167.3381	62.70631	48.69872	4.997110	56.50082	12.38376
#1	-.000240	.0154053	-.000098	.0007399	-.205772	-.000686	.0006053
#2	-.000219	.0107817	-.000269	.0003704	-.192064	-.001196	.0004807
#3	-.000254	-.005997	-.000433	.0003143	-.186930	-.000359	.0005960

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.035979	.0023148	.0002928	.0000886	.0001808	-.009003	-.004427
Stddev	.014809	.0005575	.0001538	.0004041	.0000216	.002339	.001077
%RSD	41.16097	24.08319	52.51865	456.2679	11.97002	25.98105	24.32900
#1	-.023882	.0027303	.0004371	.0001830	.0001934	-.006335	-.003919
#2	-.031561	.0016812	.0003104	-.000354	.0001931	-.009974	-.005665
#3	-.052495	.0025328	.0001310	.000437	.0001558	-.010701	-.003699

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB01 Acquired: 11/8/2024 14:50:43 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002119	-.002421	.0000452
Stddev	.003140	.000411	.0000030
%RSD	148.1883	16.98836	6.618119
#1	-.005744	-.002723	.0000430
#2	-.000308	-.001953	.0000440
#3	-.000304	-.002587	.0000486

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2695.529	58638.96	13753.45	1901.113	4642.137
Stddev	7.928	126.67	34.54	4.904	6.502
%RSD	.2941187	.2160249	.2511602	.2579391	.1400620
#1	2700.620	58782.34	13716.44	1895.907	4645.073
#2	2699.574	58542.19	13759.06	1901.790	4646.652
#3	2686.395	58592.36	13784.84	1905.644	4634.684

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4578-04DLX5 Acquired: 11/8/2024 14:55:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2127785	.0025377	1.305662	-.008894	-.000465	26.16195
Stddev	.0025350	.0009710	.001173	.001940	.000152	.06663
%RSD	1.191369	38.26499	.0898396	21.80725	32.70943	.2546723
#1	.2117010	.0016984	1.307016	-.009621	-.000436	26.23283
#2	.2109602	.0036012	1.304986	-.010365	-.000630	26.10061
#3	.2156742	.0023135	1.304983	-.006696	-.000330	26.15240

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5143473	.0021709	.0106887	9.545721	.5289002	.0228533
Stddev	.0031310	.0000416	.0000171	.028903	.0009935	.0001473
%RSD	.6087398	1.914488	.1603208	.3027870	.1878333	.6443904
#1	.5174763	.0021724	.0107081	9.574717	.5299249	.0226873
#2	.5112143	.0022116	.0106828	9.516912	.5279413	.0229041
#3	.5143512	.0021286	.0106754	9.545533	.5288342	.0229684

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.295033	56.62934	.5794117	11.88124	.1419236	.0108173
Stddev	.002284	.18686	.0041670	.00867	.0002354	.0001676
%RSD	.1763663	.3299681	.7191754	.0729947	.1658946	1.549754
#1	1.296502	56.65272	.5825590	11.89098	.1416775	.0109463
#2	1.292402	56.43189	.5746861	11.87437	.1421467	.0106278
#3	1.296195	56.80341	.5809900	11.87837	.1419466	.0108777

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.408857	.0707267	1.832188	3.997531	.0517806	.0026338
Stddev	.039228	.0003344	.002493	.019189	.0002535	.0001855
%RSD	.4169280	.4727290	.1360710	.4800290	.4895919	7.042709
#1	9.450028	.0710089	1.833580	4.019225	.0515958	.0028422
#2	9.371914	.0708138	1.833674	3.982777	.0520696	.0024867
#3	9.404628	.0703574	1.829310	3.990593	.0516765	.0025727

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4578-04DLX5 Acquired: 11/8/2024 14:55:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9579602	.7552061	4.070296	4.168734	F 19.29332	.0383758
Stddev	.0056914	.0036872	.011420	.004698	.08769	.0018771
%RSD	.5941155	.4882432	.2805718	.1126874	.4545050	4.891357
#1	.9588151	.7587599	4.079658	4.163622	19.30449	.0403127
#2	.9518898	.7513985	4.057572	4.169719	19.20058	.0365649
#3	.9631759	.7554600	4.073659	4.172861	19.37488	.0382498

Elem	Sr4077
Units	ppm
Avg	.0326411
Stddev	.0003332
%RSD	1.020747
#1	.0330070
#2	.0323552
#3	.0325610

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2570.601	58032.93	14135.50	1819.777	4063.109
Stddev	4.718	87.61	26.57	3.405	5.404
%RSD	.1835486	.1509708	.1879976	.1871359	.1329903
#1	2575.027	58061.64	14108.54	1822.012	4068.904
#2	2565.636	57934.56	14136.29	1815.858	4058.208
#3	2571.139	58102.58	14161.67	1821.463	4062.217

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4719-03 Acquired: 11/8/2024 14:59:08 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007237	-.007472	.0110381	.0056547	.0007828	.0510572	.1709893
Stddev	.002685	.002208	.0014865	.0014585	.0011689	.0011472	.0014147
%RSD	37.10526	29.55224	13.46685	25.79362	149.3204	2.246894	.8273804
#1	-.008443	-.006851	.0098293	.0046915	-.000493	.0512764	.1724869
#2	-.009108	-.009924	.0126979	.0049397	.001802	.0520790	.1696753
#3	-.004160	-.005640	.0105872	.0073327	.001040	.0498162	.1708057

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000083	.0005171	82.68160	-.000693	.0037543	.0074139	.4421382
Stddev	.000074	.0000511	.86694	.000041	.0001567	.0001062	.0030408
%RSD	89.05630	9.889738	1.048523	5.943260	4.172790	1.432055	.6877528
#1	-.000114	.0005081	83.47823	-.000658	.0035799	.0073366	.4449954
#2	.000001	.0004710	81.75830	-.000739	.0038832	.0073700	.4389421
#3	-.000135	.0005721	82.80827	-.000684	.0037997	.0075349	.4424771

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3410727	3.609356	.0150878	.0005682	406.4938	.0001363	.1484477
Stddev	.0030914	.033917	.0002283	.0002578	3.6893	.0016994	.0017378
%RSD	.9063817	.9396939	1.513391	45.37417	.9075895	1246.449	1.170660
#1	.3439261	3.642017	.0148324	.0002961	402.7575	.0020716	.1502948
#2	.3377884	3.574309	.0152720	.0005997	406.5898	-.001113	.1468450
#3	.3415036	3.611741	.0151591	.0008089	410.1342	-.000550	.1482035

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.588180	.0227588	.0010205	-.003753	-.000641	3.701280	.0022834
Stddev	.015350	.0008799	.0002727	.001093	.000520	.050957	.0021052
%RSD	.9665073	3.866031	26.71913	29.12145	81.14359	1.376740	92.19651
#1	1.587916	.0235209	.0013314	-.004450	-.000077	3.743694	.0008473
#2	1.572964	.0217959	.0009082	-.004316	-.001102	3.644754	.0013029
#3	1.603660	.0229596	.0008219	-.002494	-.000744	3.715391	.0047001

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4719-03 Acquired: 11/8/2024 14:59:08 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.866318	.0163575	.2843414
Stddev	.006066	.0005858	.0022601
%RSD	.3250241	3.581162	.7948566
#1	1.861474	.0170234	.2865838
#2	1.873122	.0161276	.2820640
#3	1.864358	.0159216	.2843764

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2262.918	52349.81	13159.98	1585.518	3565.894
Stddev	15.199	440.61	105.28	16.685	20.097
%RSD	.6716611	.8416710	.7999873	1.052344	.5635916
#1	2279.193	51935.43	13071.95	1568.396	3586.565
#2	2249.091	52812.65	13276.60	1601.729	3546.424
#3	2260.472	52301.35	13131.40	1586.431	3564.694

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4720-05 Acquired: 11/8/2024 15:03:33 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008783	-.007930	.0253351	.0066674	-.000819	.0807080	.4514766
Stddev	.000664	.000735	.0012483	.0017191	.000416	.0043395	.0031803
%RSD	7.557371	9.261927	4.926963	25.78407	50.84426	5.376786	.7044137
#1	-.008767	-.007105	.0264564	.0070571	-.000387	.0848426	.4479730
#2	-.009455	-.008176	.0255588	.0047869	-.000853	.0761892	.4541811
#3	-.008128	-.008511	.0239901	.0081583	-.001217	.0810923	.4522757

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000132	.0015224	36.48308	.0007612	-.000509	.0118331	.0682359
Stddev	.000072	.0000794	.28858	.0001313	.000168	.0002025	.0014570
%RSD	54.64030	5.214089	.7909846	17.24347	32.88947	1.711393	2.135181
#1	-.000146	.0015213	36.18470	.0006400	-.000702	.0115997	.0698908
#2	-.000196	.0016023	36.76073	.0007431	-.000425	.0119622	.0676704
#3	-.000054	.0014436	36.50382	.0009006	-.000401	.0119375	.0671464

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1035430	1.675604	.0016279	.0006102	427.3164	.0008237	.3406806
Stddev	.0008228	.015220	.0001171	.0001538	1.5719	.0011907	.0021594
%RSD	.7946793	.9083142	7.193011	25.20444	.3678530	144.5511	.6338487
#1	.1026147	1.671677	.0017156	.0004642	427.8034	.0011797	.3414068
#2	.1041827	1.692403	.0014949	.0005957	428.5872	.0017959	.3423833
#3	.1038315	1.662733	.0016731	.0007708	425.5587	-.000504	.3382518

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.221532	.0122585	.0005779	-.002819	.0012812	.5096306	.2057539
Stddev	.013743	.0007542	.0001503	.000586	.0000917	.0007524	.0023904
%RSD	.6186217	6.152809	26.00089	20.80500	7.161341	.1476420	1.161773
#1	2.227550	.0120857	.0006189	-.003403	.0012363	.5096544	.2084881
#2	2.231240	.0116056	.0007035	-.002230	.0012204	.5103708	.2047135
#3	2.205807	.0130841	.0004114	-.002822	.0013867	.5088665	.2040600

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4720-05 Acquired: 11/8/2024 15:03:33 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3591747	.0049579	.1908607
Stddev	.0030295	.0009895	.0009970
%RSD	.8434521	19.95704	.5223684
#1	.3561596	.0053167	.1898390
#2	.3622184	.0038391	.1918310
#3	.3591462	.0057179	.1909121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2272.479	51903.52	13240.15	1629.742	3590.424
Stddev	7.878	168.03	74.19	10.321	9.816
%RSD	.3466850	.3237335	.5603667	.6333007	.2733857
#1	2264.715	51800.27	13309.29	1618.274	3582.027
#2	2280.467	51812.89	13161.77	1632.667	3601.215
#3	2272.254	52097.41	13249.38	1638.285	3588.031

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4734-01 Acquired: 11/8/2024 15:07:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0479436	-.036739	.3205158	-.064623	.0162213	184.8910	.6192146
Stddev	.0022870	.001983	.0009477	.004193	.0008787	.0531	.0014827
%RSD	4.770166	5.397054	.2956745	6.487717	5.416779	.0287339	.2394552
#1	.0476485	-.038926	.3203364	-.061320	.0167657	184.8459	.6182706
#2	.0503638	-.035059	.3215404	-.069340	.0166906	184.8776	.6209236
#3	.0458184	-.036232	.3196707	-.063208	.0152076	184.9496	.6184496

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091354	.0446217	41.17491	.2752338	.1552126	.3477859	283.3120
Stddev	.0001232	.0004258	.18368	.0061232	.0001956	.0051554	5.7606
%RSD	1.348724	.9542224	.4461040	2.224721	.1260252	1.482344	2.033294
#1	.0092762	.0442245	41.37587	.2807626	.1550019	.3439459	288.2816
#2	.0090829	.0450713	41.13317	.2686527	.1552477	.3536453	276.9981
#3	.0090471	.0445693	41.01569	.2762862	.1553884	.3457666	284.6562

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.670016	39.99759	.2430005	.0022032	14.40393	.7126464	.5937285
Stddev	.012479	.24753	.0005536	.0001869	.21199	.0017415	.0104068
%RSD	.2672096	.6188575	.2278350	8.483181	1.471777	.2443690	1.752782
#1	4.680803	40.26443	.2423764	.0019962	14.53598	.7142791	.6012849
#2	4.672897	39.95285	.2431928	.0022538	14.15940	.7128466	.5818585
#3	4.656349	39.77548	.2434324	.0023596	14.51641	.7108135	.5980420

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.11638	.1827146	.0011842	.0029552	9.186921	7.591823	6.668492
Stddev	.14216	.0067061	.0004801	.0009620	.017454	.150727	.003819
%RSD	1.405289	3.670252	40.54625	32.55237	.1899846	1.985380	.0572643
#1	10.21044	.1875303	.0011956	.0026423	9.201528	7.713327	6.668059
#2	9.95284	.1750553	.0016585	.0040346	9.191643	7.423154	6.664909
#3	10.18586	.1855584	.0006984	.0021886	9.167592	7.638987	6.672509

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4734-01 Acquired: 11/8/2024 15:07:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.180051	.1097765	-.088560
Stddev	.012455	.0010519	.005832
%RSD	.5713343	.9582347	6.585532
#1	2.188676	.1103916	-.093419
#2	2.165771	.1085619	-.082092
#3	2.185705	.1103760	-.090168

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2858.666	66997.71	16299.09	2069.464	3704.271
Stddev	3.636	1171.38	82.12	34.431	4.394
%RSD	.1271802	1.748383	.5038014	1.663778	.1186165
#1	2855.453	66035.59	16213.91	2046.727	3705.816
#2	2857.932	68302.09	16305.61	2109.078	3699.313
#3	2862.612	66655.43	16377.75	2052.587	3707.684

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4757-01 Acquired: 11/8/2024 15:12:21 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000131	-.002848	.0324854	-.000015	.0005407	2.080192
Stddev	.002537	.002289	.0001140	.000561	.0008143	.003037
%RSD	1932.808	80.38089	.3508740	3831.946	150.5961	.1459790
#1	-.000294	-.003854	.0324291	-.000480	.0008316	2.079021
#2	.002483	-.000228	.0324106	.000608	.0011695	2.083640
#3	-.002583	-.004462	.0326166	-.000171	-.000379	2.077915

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1098382	.0002090	.0012811	80.67652	.0446186	.0030212
Stddev	.0004388	.0000386	.0000646	.11321	.0003476	.0000873
%RSD	.3994475	18.48679	5.042685	.1403215	.7790086	2.890430
#1	.1093671	.0001936	.0013314	80.54837	.0443574	.0029295
#2	.1099123	.0001804	.0013036	80.76295	.0450131	.0031033
#3	.1102352	.0002529	.0012082	80.71823	.0444853	.0030308

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1583997	9.902372	.2232827	25.15999	.0259702	.0008636
Stddev	.0007983	.078492	.0004498	.01843	.0002602	.0003154
%RSD	.5040052	.7926573	.2014432	.0732475	1.002049	36.52481
#1	.1580719	9.909232	.2228385	25.17801	.0256772	.0009385
#2	.1593098	9.977208	.2237378	25.14118	.0260586	.0005174
#3	.1578175	9.820674	.2232718	25.16077	.0261747	.0011347

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	162.1300	.0056951	.3103842	10.11354	.0753859	.0019562
Stddev	1.7140	.0002959	.0037821	.08491	.0009179	.0001170
%RSD	1.057206	5.195580	1.218523	.8395426	1.217591	5.979468
#1	162.8334	.0057875	.3121923	10.16575	.0744743	.0020338
#2	163.3805	.0059338	.3129228	10.15930	.0763099	.0018217
#3	160.1762	.0053640	.3060374	10.01557	.0753735	.0020133

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4757-01 Acquired: 11/8/2024 15:12:21 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001025	.1177291	F 15.48300	1.734826	7.908319	.0199490
Stddev	.000914	.0019096	.09171	.011658	.007602	.0021877
%RSD	89.13783	1.622021	.5923533	.6720004	.0961212	10.96643
#1	-.001802	.1164633	15.50925	1.746058	7.915300	.0217062
#2	-.000018	.1199256	15.55873	1.735636	7.900220	.0174987
#3	-.001255	.1167985	15.38102	1.722784	7.909437	.0206420

Elem	Sr4077
Units	ppm
Avg	.3378492
Stddev	.0005769
%RSD	.1707453
#1	.3375621
#2	.3374723
#3	.3385133

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2358.242	54974.02	13526.27	1694.557	3753.079
Stddev	1.127	439.51	6.45	25.154	3.668
%RSD	.0477933	.7994944	.0476849	1.484382	.0977212
#1	2359.371	54846.27	13531.82	1676.283	3756.002
#2	2357.117	54612.54	13527.79	1684.143	3748.964
#3	2358.240	55463.26	13519.19	1723.245	3754.272

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4757-02 Acquired: 11/8/2024 15:16:40 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012980	-.000958	.0286567	-.000618	-.000333	1.725304
Stddev	.0026131	.001283	.0006134	.001389	.001064	.008872
%RSD	201.3115	133.9725	2.140490	224.7925	319.3913	.5142102
#1	-.001538	-.001746	.0293147	-.002163	.000896	1.727698
#2	.003609	-.001650	.0285548	-.000219	-.000969	1.715481
#3	.001823	.000523	.0281007	.000528	-.000926	1.732733

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0941034	.0001635	.0010687	69.98612	.0159920	.0024690
Stddev	.0002789	.0000308	.0000509	.17732	.0002399	.0001128
%RSD	.2963462	18.85081	4.767692	.2533582	1.500366	4.569074
#1	.0941394	.0001987	.0010112	70.07423	.0160000	.0025041
#2	.0943625	.0001510	.0010865	69.78200	.0157482	.0023428
#3	.0938083	.0001409	.0011083	70.10211	.0162279	.0025600

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1867067	8.892849	.2006219	21.28943	.0114995	.0005415
Stddev	.0032410	.136735	.0008295	.06629	.0003063	.0001960
%RSD	1.735859	1.537587	.4134668	.3113823	2.663396	36.18991
#1	.1880256	9.024564	.2011504	21.24617	.0116130	.0003852
#2	.1830143	8.751593	.1996659	21.25637	.0111527	.0004778
#3	.1890803	8.902390	.2010495	21.36575	.0117329	.0007613

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	139.1929	.0040301	.2745589	8.974702	.0657211	.0016715
Stddev	2.0457	.0009525	.0046109	.113373	.0005370	.0001429
%RSD	1.469668	23.63575	1.679402	1.263248	.8171504	8.549613
#1	140.8655	.0049253	.2796557	9.071613	.0660945	.0015183
#2	136.9121	.0030291	.2706772	8.850026	.0651057	.0016951
#3	139.8012	.0041357	.2733438	9.002467	.0659632	.0018012

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4757-02 Acquired: 11/8/2024 15:16:40 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000926	.1068220	F 13.37327	1.564800	6.802158	.0175420
Stddev	.000612	.0033779	.17328	.024849	.140521	.0013448
%RSD	66.03470	3.162225	1.295716	1.588011	2.065826	7.666166
#1	-.001396	.1106223	13.52045	1.586435	6.893848	.0168942
#2	-.000235	.1041611	13.18229	1.537660	6.640379	.0190881
#3	-.001147	.1056826	13.41706	1.570307	6.872249	.0166438

Elem	Sr4077
Units	ppm
Avg	.2921261
Stddev	.0007346
%RSD	.2514637
#1	.2915233
#2	.2919108
#3	.2929443

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2352.514	54567.85	13596.63	1700.610	3769.493
Stddev	38.788	729.91	48.40	28.262	59.635
%RSD	1.648791	1.337618	.3559784	1.661847	1.582031
#1	2340.422	53905.50	13599.01	1671.466	3741.941
#2	2395.908	55350.40	13643.80	1727.897	3837.921
#3	2321.213	54447.66	13547.08	1702.468	3728.615

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4757-03 Acquired: 11/8/2024 15:20:59 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046234	-.001425	.0408882	-.000481	.0007172	2.490488
Stddev	.0017216	.001560	.0005386	.000448	.0009927	.071107
%RSD	37.23620	109.4596	1.317200	93.20023	138.4214	2.855125
#1	.0064953	-.002152	.0411082	-.000997	.0004340	2.566627
#2	.0042670	-.002489	.0412819	-.000255	.0018207	2.425806
#3	.0031079	.000366	.0402745	-.000191	-.000103	2.479030

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1027352	.0002559	.0015213	78.54224	.0075988	.0034624
Stddev	.0023847	.0000195	.0000678	1.22776	.0002474	.0000737
%RSD	2.321191	7.618452	4.458765	1.563179	3.256218	2.129227
#1	.1053208	.0002667	.0014750	79.91220	.0078137	.0035458
#2	.1006222	.0002334	.0014898	77.54134	.0073283	.0034356
#3	.1022625	.0002676	.0015992	78.17320	.0076546	.0034059

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2512160	12.58506	.2744838	19.73189	.0122587	.0008800
Stddev	.0008678	.01994	.0042407	.27059	.0001141	.0002905
%RSD	.3454438	.1584590	1.544968	1.371335	.9304707	33.01455
#1	.2519857	12.59166	.2792038	20.04090	.0121545	.0009666
#2	.2502755	12.56266	.2709949	19.53737	.0122411	.0005561
#3	.2513868	12.60087	.2732526	19.61739	.0123806	.0011175

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	128.3576	.0074130	.6388641	11.13994	.0702133	.0018720
Stddev	.3228	.0010618	.0065634	.11885	.0006582	.0001271
%RSD	.2515212	14.32365	1.027349	1.066880	.9373948	6.788331
#1	128.4374	.0075330	.6314216	11.03600	.0706980	.0017390
#2	128.0023	.0062963	.6438241	11.11430	.0694640	.0019922
#3	128.6330	.0084098	.6413467	11.26951	.0704779	.0018848

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4757-03 Acquired: 11/8/2024 15:20:59 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020668	.1618088	F 14.27300	2.164491	6.345214	.0222650
Stddev	.0008387	.0067134	.04101	.009664	.028271	.0001463
%RSD	40.58149	4.148950	.2873274	.4464593	.4455428	.6571201
#1	.0012192	.1690734	14.27917	2.174696	6.364746	.0222810
#2	.0028963	.1558337	14.22926	2.155480	6.312796	.0224026
#3	.0020849	.1605192	14.31058	2.163297	6.358099	.0221113

Elem	Sr4077
Units	ppm
Avg	.3086331
Stddev	.0055111
%RSD	1.785659
#1	.3135870
#2	.3026968
#3	.3096154

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2305.142	53773.05	13663.22	1630.752	3731.270
Stddev	7.810	560.49	142.19	17.520	9.045
%RSD	.3387954	1.042328	1.040695	1.074329	.2424236
#1	2312.170	54417.15	13516.67	1650.975	3737.352
#2	2306.522	53505.80	13800.61	1621.104	3735.582
#3	2296.735	53396.20	13672.39	1620.177	3720.875

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4757-04 Acquired: 11/8/2024 15:25:16 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033870	-.003942	.0520968	-.000608	.0000716	3.295732
Stddev	.0006458	.000761	.0009407	.001167	.0011777	.020454
%RSD	19.06701	19.31340	1.805766	191.9926	1643.908	.6206189
#1	.0031194	-.003744	.0531765	-.001424	-.001007	3.305642
#2	.0029181	-.004783	.0516600	-.001128	.001328	3.309343
#3	.0041236	-.003300	.0514538	.000729	-.000106	3.272210

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1192822	.0002812	.0020031	90.11028	.0127457	.0045840
Stddev	.0006615	.0000197	.0000700	.84830	.0006096	.0002034
%RSD	.5545577	6.989198	3.495288	.9414049	4.783097	4.438068
#1	.1186067	.0002959	.0020636	89.84944	.0123719	.0047988
#2	.1199287	.0002888	.0020192	91.05837	.0124161	.0045589
#3	.1193110	.0002589	.0019264	89.42302	.0134492	.0043942

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2520564	14.87777	.3287145	21.86279	.0378593	.0007880
Stddev	.0009832	.09260	.0031785	.21393	.0002303	.0001301
%RSD	.3900676	.6223803	.9669488	.9785132	.6084433	16.51023
#1	.2519823	14.98117	.3267775	21.83575	.0381061	.0008133
#2	.2511124	14.80251	.3323828	22.08896	.0378221	.0009037
#3	.2530746	14.84963	.3269833	21.66367	.0376499	.0006471

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	141.5533	.0085606	.4311885	13.10098	.0805985	.0021975
Stddev	1.7095	.0015019	.0053021	.15421	.0005675	.0001184
%RSD	1.207656	17.54379	1.229648	1.177068	.7041372	5.385653
#1	143.4835	.0069052	.4367947	13.26372	.0807226	.0021214
#2	140.2304	.0089406	.4262546	12.95702	.0810936	.0023338
#3	140.9460	.0098359	.4305162	13.08220	.0799791	.0021371

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4757-04 Acquired: 11/8/2024 15:25:16 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077845	.1690777	F 16.23801	2.588116	6.882079	.0261297
Stddev	.0006893	.0022917	.12331	.005422	.027288	.0007958
%RSD	8.855006	1.355396	.7593840	.2094926	.3965049	3.045499
#1	.0080774	.1697619	16.38024	2.582317	6.910347	.0266485
#2	.0082789	.1709493	16.16114	2.588972	6.879998	.0252135
#3	.0069971	.1665218	16.17264	2.593059	6.855891	.0265271

Elem	Sr4077
Units	ppm
Avg	.3532416
Stddev	.0025485
%RSD	.7214623
#1	.3524707
#2	.3560866
#3	.3511676

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2294.454	53679.19	13744.88	1614.028	3688.585
Stddev	5.326	492.49	78.27	22.256	7.400
%RSD	.2321319	.9174781	.5694414	1.378891	.2006058
#1	2300.573	53160.80	13761.66	1588.332	3692.026
#2	2291.930	54140.88	13659.58	1627.198	3693.637
#3	2290.859	53735.89	13813.40	1626.553	3680.092

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV02 Acquired: 11/8/2024 15:29:35 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.951378	5.013272	4.803684	5.082521	5.061170	9.832743	9.463857
Stddev	.019151	.039634	.022810	.019138	.016149	.018476	.053442
%RSD	.3867808	.7905731	.4748341	.3765409	.3190743	.1879028	.5646918
#1	4.972824	5.041669	4.829500	5.102733	5.072360	9.816980	9.476360
#2	4.935985	5.030156	4.786256	5.064678	5.042657	9.828175	9.405272
#3	4.945325	4.967993	4.795297	5.080153	5.068494	9.853075	9.509938

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2309063	2.362151	23.30884	.9184684	2.388756	1.257691	4.783235
Stddev	.0022454	.010316	.09903	.0044919	.009494	.004073	.011555
%RSD	.9724057	.4367132	.4248592	.4890629	.3974554	.3238518	.2415719
#1	.2332129	2.374049	23.39102	.9224875	2.399660	1.262081	4.769981
#2	.2287277	2.355706	23.19889	.9136194	2.382319	1.254035	4.788534
#3	.2307783	2.356698	23.33660	.9192983	2.384290	1.256956	4.791191

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.284395	23.38891	2.390306	1.227377	24.51941	2.391063	2.521324
Stddev	.009771	.13563	.011112	.002656	.05756	.007805	.010691
%RSD	.4277108	.5798707	.4648863	.2163758	.2347542	.3264043	.4240092
#1	2.290725	23.50848	2.403137	1.230419	24.48652	2.397122	2.532360
#2	2.273142	23.24153	2.384001	1.225519	24.58587	2.382256	2.520597
#3	2.289317	23.41671	2.383781	1.226192	24.48584	2.393811	2.511016

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.13619	4.635080	4.989933	4.738543	4.699186	4.926961	4.871345
Stddev	.07349	.035747	.011816	.020461	.009771	.047635	.014331
%RSD	.2923858	.7712302	.2367981	.4317889	.2079240	.9668144	.2941884
#1	25.05166	4.672381	5.003386	4.761011	4.706596	4.873479	4.865680
#2	25.17199	4.601121	4.981237	4.733633	4.688113	4.964827	4.860713
#3	25.18493	4.631739	4.985175	4.720984	4.702849	4.942578	4.887643

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV02 Acquired: 11/8/2024 15:29:35 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.695797	4.639142	4.835593
Stddev	.030166	.006272	.018118
%RSD	.6424097	.1352016	.3746889
#1	4.728404	4.638134	4.856403
#2	4.690106	4.633435	4.827055
#3	4.668882	4.645858	4.823322

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2414.964	54627.21	13430.54	1708.758	3864.469
Stddev	6.745	52.61	75.43	6.684	10.667
%RSD	.2793044	.0963152	.5615954	.3911851	.2760390
#1	2411.375	54593.33	13350.01	1707.425	3855.208
#2	2422.745	54600.48	13499.53	1702.840	3876.133
#3	2410.772	54687.82	13442.08	1716.008	3862.066

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB02 Acquired: 11/8/2024 15:33:46 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000769	.0004390	-.000755	.0007197	-.000321	.0090078	-.004672
Stddev	.001346	.0009271	.000201	.0007097	.000133	.0018121	.000337
%RSD	175.0276	211.2119	26.56015	98.61471	41.58285	20.11699	7.209662
#1	-.001272	.0014794	-.000554	-.000086	-.000195	.0069701	-.005044
#2	-.001791	.0001369	-.000955	.000992	-.000460	.0104385	-.004586
#3	.000756	-.000299	-.000757	.001253	-.000307	.0096147	-.004387

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000026	-.000010	-.003956	.0000501	.0000151	-.000145	.0012371
Stddev	.0000681	.000039	.001917	.0003225	.0001787	.000140	.0008327
%RSD	2603.226	389.8077	48.46177	644.1499	1186.995	96.86841	67.31132
#1	.0000353	.000032	-.003491	-.000298	-.000157	-.000022	.0004936
#2	.0000483	-.000045	-.002314	.000340	.000002	-.000114	.0021368
#3	-.000076	-.000016	-.006062	.000108	.000200	-.000298	.0010808

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000148	.0032960	.0000718	.0006178	-.082820	-.000273	.0002430
Stddev	.000082	.0065118	.0002314	.0001966	.011532	.000482	.0001377
%RSD	55.29369	197.5688	322.3565	31.81942	13.92457	176.5076	56.66809
#1	-.000146	.0051803	.0003161	.0003925	-.091582	.000177	.0000843
#2	-.000067	-.003950	-.000144	.0007072	-.087125	-.000781	.0003141
#3	-.000230	.008658	.000043	.0007539	-.069755	-.000215	.0003306

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013476	.0037598	.0001357	-.000296	.0002930	-.002339	-.001550
Stddev	.010878	.0002583	.0002111	.000507	.0004160	.002709	.001231
%RSD	80.71595	6.870399	155.5682	170.8858	141.9568	115.8171	79.44142
#1	-.023100	.0040511	-.000077	.000257	.0006997	.000596	-.001839
#2	-.015655	.0036694	.000345	-.000736	.0003110	-.004745	-.000200
#3	-.001674	.0035588	.000138	-.000410	-.000132	-.002869	-.002610

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB02 Acquired: 11/8/2024 15:33:46 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000460	-.001413	.0000786
Stddev	.001799	.001041	.0000032
%RSD	390.9034	73.67870	4.059811
#1	-.001025	-.000729	.0000801
#2	-.001910	-.000899	.0000749
#3	.001554	-.002612	.0000807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2604.302	58311.26	13676.06	1833.894	4484.493
Stddev	4.922	72.92	30.10	7.447	4.509
%RSD	.1889896	.1250487	.2201088	.4060815	.1005569
#1	2604.287	58271.09	13659.99	1825.785	4488.140
#2	2609.231	58395.43	13657.40	1835.472	4485.889
#3	2599.387	58267.26	13710.79	1840.426	4479.451

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03 Acquired: 11/8/2024 15:39:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007759	-.009968	.0007876	.0033828	-.000538	.0124226	.2808712
Stddev	.000281	.003704	.0007150	.0016343	.000891	.0060424	.0014595
%RSD	3.627285	37.16029	90.78780	48.31132	165.6271	48.64039	.5196287
#1	-.008060	-.013853	.0012507	.0021236	.000070	.0105390	.2795557
#2	-.007502	-.009574	-.000036	.0052296	-.000123	.0191824	.2806166
#3	-.007715	-.006477	.001148	.0027952	-.001561	.0075464	.2824412

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000071	.0003617	64.03450	.0012251	.0018337	.0062228	2.967572
Stddev	.000045	.0000773	.17634	.0004609	.0000745	.0004763	.011586
%RSD	63.58647	21.37312	.2753884	37.61952	4.062351	7.653582	.3904058
#1	-.000123	.0002766	63.84629	.0014240	.0018695	.0058383	2.957939
#2	-.000046	.0004277	64.19591	.0006982	.0017480	.0060744	2.980428
#3	-.000044	.0003807	64.06129	.0015531	.0018835	.0067555	2.964348

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.170345	10.81725	.0023221	.0004159	403.7092	-.000282	.0400427
Stddev	.012248	.06362	.0003016	.0000051	1.0257	.000656	.0004766
%RSD	.5643384	.5881065	12.98753	1.222165	.2540603	232.9533	1.190314
#1	2.157132	10.74633	.0026522	.0004204	402.6054	-.000510	.0404478
#2	2.172585	10.86928	.0022532	.0004104	403.8894	-.000793	.0401629
#3	2.181319	10.83615	.0020609	.0004169	404.6329	.000458	.0395175

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.758408	.0279065	.0003505	-.003692	-.000276	.4603098	-.000456
Stddev	.007335	.0004613	.0001113	.000430	.000301	.0016171	.003027
%RSD	.1951668	1.652895	31.76004	11.64836	109.2143	.3513011	664.4353
#1	3.765506	.0283731	.0002269	-.004154	-.000432	.4609235	-.003317
#2	3.750857	.0278955	.0003817	-.003621	-.000466	.4615302	.002714
#3	3.758860	.0274508	.0004430	-.003302	.000071	.4584757	-.000763

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03 Acquired: 11/8/2024 15:39:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4355264	.0111451	.1364014
Stddev	.0022213	.0012844	.0007139
%RSD	.5100270	11.52428	.5234127
#1	.4335148	.0125804	.1356256
#2	.4351540	.0101040	.1365478
#3	.4379103	.0107509	.1370308

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2271.638	52495.50	13436.92	1635.156	3558.819
Stddev	23.554	49.91	26.85	7.112	34.025
%RSD	1.036882	.0950712	.1998246	.4349361	.9560874
#1	2278.231	52482.78	13467.70	1636.550	3570.881
#2	2291.193	52453.18	13424.76	1641.467	3585.170
#3	2245.489	52550.54	13418.30	1627.450	3520.405

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03DUP Acquired: 11/8/2024 15:44:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006456	-.009952	.0005043	.0051473	-.000413	.0108885	.2741272
Stddev	.000442	.001058	.0011220	.0013786	.000915	.0065073	.0030135
%RSD	6.839806	10.63264	222.4659	26.78412	221.4338	59.76273	1.099322
#1	-.006270	-.010406	.0003273	.0062817	-.000271	.0044275	.2729094
#2	-.006960	-.010707	-.000519	.0055472	.000423	.0107969	.2719131
#3	-.006138	-.008743	.001704	.0036128	-.001391	.0174411	.2775590

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000098	.0003570	62.68699	.0012028	.0016259	.0059979	2.978253
Stddev	.000043	.0000212	.57870	.0002907	.0001551	.0002035	.006102
%RSD	43.46793	5.946475	.9231587	24.17121	9.538331	3.392735	.2048995
#1	-.000054	.0003503	62.66662	.0012207	.0015110	.0057671	2.984618
#2	-.000139	.0003808	62.11875	.0014842	.0018023	.0061515	2.977691
#3	-.000101	.0003399	63.27561	.0009035	.0015644	.0060751	2.972452

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.126076	10.61963	.0026251	.0005364	405.6032	.0008956	.0402921
Stddev	.020549	.08629	.0002196	.0003037	2.9870	.0007319	.0002506
%RSD	.9665049	.8125402	8.365416	56.62978	.7364317	81.72308	.6219326
#1	2.128468	10.61672	.0027180	.0004254	408.9126	.0003617	.0405295
#2	2.104437	10.53484	.0023743	.0003037	403.1070	.0005952	.0400302
#3	2.145325	10.70735	.0027829	.0008800	404.7900	.0017300	.0403167

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.862095	.0269340	.0008193	-.004147	.0003464	.4676250	.0016718
Stddev	.020491	.0004783	.0000878	.000703	.0005904	.0022925	.0032576
%RSD	.5305784	1.775846	10.72278	16.96279	170.4733	.4902453	194.8486
#1	3.857837	.0264018	.0008255	-.003397	-.000242	.4691294	.0054318
#2	3.844067	.0270723	.0007285	-.004792	.000343	.4687590	-.000303
#3	3.884381	.0273279	.0009039	-.004252	.000939	.4649865	-.000114

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03DUP Acquired: 11/8/2024 15:44:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4413680	.0120877	.1338466
Stddev	.0021468	.0005650	.0015136
%RSD	.4863896	4.673970	1.130844
#1	.4438285	.0124896	.1332605
#2	.4403982	.0114417	.1327137
#3	.4398772	.0123317	.1355656

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2214.581	51418.81	13634.49	1577.176	3486.270
Stddev	7.082	258.85	85.81	16.690	4.907
%RSD	.3197851	.5034237	.6293568	1.058203	.1407551
#1	2221.970	51121.36	13610.14	1559.662	3490.557
#2	2213.920	51542.09	13729.85	1578.969	3487.334
#3	2207.853	51592.98	13563.50	1592.896	3480.918

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03LX5 Acquired: 11/8/2024 15:48:39 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003659	-.001540	-.000079	.0031170	-.000971	.0078208	.0523918
Stddev	.002112	.001109	.000809	.0007517	.000791	.0018711	.0002861
%RSD	57.71934	72.06076	1029.265	24.11695	81.41601	23.92499	.5460545
#1	-.003384	-.001115	-.000795	.0022561	-.000719	.0089299	.0522717
#2	-.001698	-.002799	-.000240	.0034511	-.000338	.0056605	.0527183
#3	-.005896	-.000705	.000799	.0036437	-.001857	.0088720	.0521853

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000219	.0000214	13.06972	.0001917	.0003220	.0010707	.5729582
Stddev	.0000219	.0000373	.09727	.0001977	.0001277	.0000612	.0052227
%RSD	99.89959	174.5005	.7442575	103.1773	39.65250	5.719658	.9115282
#1	.0000454	-.000017	12.96186	.0002427	.0004298	.0010628	.5682142
#2	.0000020	.000023	13.15078	-.000027	.0003552	.0011355	.5721059
#3	.0000183	.000058	13.09653	.000359	.0001810	.0010138	.5785546

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4481148	2.218014	.0005954	.0006563	72.82307	.0005079	.0078109
Stddev	.0018805	.024300	.0001779	.0001600	.66004	.0005191	.0002540
%RSD	.4196356	1.095567	29.87681	24.38651	.9063676	102.2135	3.251166
#1	.4461552	2.191519	.0007242	.0004797	73.56025	.0006199	.0076734
#2	.4499046	2.239261	.0003924	.0006975	72.62205	-.000058	.0076553
#3	.4482846	2.223263	.0006696	.0007917	72.28690	.000962	.0081040

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7212534	.0049663	.0000483	-.002044	.0001837	.0825760	-.003125
Stddev	.0132256	.0004294	.0000574	.000597	.0002143	.0050315	.002480
%RSD	1.833696	8.645295	118.8880	29.21654	116.6422	6.093200	79.35944
#1	.7300595	.0051786	.0001126	-.002160	.0001482	.0796734	-.000610
#2	.7276558	.0052482	.0000022	-.001397	-.000011	.0883859	-.005569
#3	.7060450	.0044722	.0000301	-.002574	.000414	.0796688	-.003197

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03LX5 Acquired: 11/8/2024 15:48:39 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0844386	.0018082	.0274184
Stddev	.0048864	.0003441	.0001387
%RSD	5.786899	19.03332	.5058451
#1	.0806654	.0014653	.0275680
#2	.0899582	.0018055	.0273930
#3	.0826922	.0021536	.0272941

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2484.511	56159.34	13821.69	1735.753	4056.114
Stddev	2.536	136.06	37.62	8.234	3.030
%RSD	.1020798	.2422709	.2721938	.4743625	.0747029
#1	2487.207	56044.57	13858.94	1733.774	4059.075
#2	2484.154	56123.83	13783.71	1728.689	4053.019
#3	2482.173	56309.64	13822.42	1744.796	4056.249

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03MS Acquired: 11/8/2024 15:52:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1413668	.3354971	.1606272	.3691145	.0635238	.0427315	.2779412
Stddev	.1205551	.2550674	.1306214	.2872471	.0583586	.0179090	.0039674
%RSD	85.27824	76.02672	81.31959	77.82058	91.86897	41.91041	1.427419
#1	.0327116	.1035331	.0423993	.1100143	.0126831	.0629212	.2816830
#2	.1203348	.2943043	.1386327	.3193293	.0506408	.0365116	.2783593
#3	.2710540	.6086539	.3008495	.6780000	.1272475	.0287618	.2737813

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016872	.0333572	62.81910	.0043372	.0353145	.0569336	2.972936
Stddev	.0004616	.0275662	.44761	.0006374	.0279598	.0423908	.030479
%RSD	27.35707	82.63938	.7125431	14.69710	79.17371	74.45646	1.025211
#1	.0013668	.0083813	63.18538	.0039094	.0099653	.0185409	3.006722
#2	.0014787	.0287558	62.95177	.0040323	.0306740	.0498340	2.947507
#3	.0022163	.0629345	62.32015	.0050698	.0653042	.1024259	2.964580

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.123727	10.67463	.0852350	.0019443	397.0798	.0050230	.0411016
Stddev	.020956	.10315	.0694358	.0003403	.2860	.0022279	.0008481
%RSD	.9867501	.9663544	81.46398	17.50486	.0720237	44.35372	2.063360
#1	2.138954	10.77146	.0223485	.0015531	397.1360	.0074762	.0413990
#2	2.132399	10.68630	.0736051	.0021072	396.7699	.0044668	.0401448
#3	2.099827	10.56614	.1597514	.0021725	397.3336	.0031259	.0417609

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.968327	.0299348	.0310821	.0415382	.0023004	.4644606	1.074099
Stddev	.083684	.0001440	.0289888	.0451128	.0015145	.0058415	.885398
%RSD	2.108810	.4808682	93.26546	108.6057	65.83497	1.257690	82.43174
#1	4.064310	.0297697	.0062001	.0037038	.0037914	.4699460	.275990
#2	3.930009	.0300003	.0241319	.0294459	.0023463	.4651172	.919801
#3	3.910662	.0300342	.0629142	.0914648	.0007635	.4583185	2.026504

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03MS Acquired: 11/8/2024 15:52:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4332820	.0159113	.1369663
Stddev	.0048525	.0020596	.0029975
%RSD	1.119951	12.94430	2.188513
#1	.4297946	.0170436	.1398923
#2	.4312277	.0135340	.1371044
#3	.4388239	.0171564	.1339021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2283.205	52503.54	13593.82	1623.216	3567.589
Stddev	6.479	303.30	100.57	10.995	7.880
%RSD	.2837732	.5776682	.7398496	.6773465	.2208877
#1	2280.786	52196.93	13504.69	1616.994	3569.690
#2	2278.283	52803.41	13573.92	1635.911	3558.871
#3	2290.545	52510.28	13702.86	1616.743	3574.206

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03MSD Acquired: 11/8/2024 15:57:24 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3961133	.8501989	.4382423	.9651935	.2460705	.0886024	.2909568
Stddev	.1927068	.3865036	.2095850	.4536587	.1238150	.0159074	.0013394
%RSD	48.64940	45.46037	47.82402	47.00184	50.31689	17.95369	.4603450
#1	.2039940	.4635515	.2302686	.5158191	.1259394	.1063370	.2924787
#2	.3949438	.8504868	.4350559	.9567429	.2390052	.0755927	.2904346
#3	.5894021	1.236558	.6494024	1.423018	.3732668	.0838776	.2899572

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0154339	.0918304	64.47508	.0322885	.0948446	.1473089	3.122275
Stddev	.0057114	.0440027	.16065	.0115947	.0451948	.0678798	.029851
%RSD	37.00582	47.91738	.2491720	35.90964	47.65145	46.07989	.9560667
#1	.0100918	.0478900	64.42846	.0213014	.0498589	.0796527	3.156546
#2	.0147556	.0917060	64.34289	.0311563	.0944293	.1468639	3.101943
#3	.0214541	.1358951	64.65389	.0444077	.1402456	.2154101	3.108336

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.185377	10.99855	.2338709	.0085010	409.4711	.0136442	.0575398
Stddev	.010256	.02504	.1115717	.0026266	2.1530	.0014349	.0059967
%RSD	.4693138	.2277011	47.70656	30.89736	.5257911	10.51647	10.42186
#1	2.183910	10.98796	.1224922	.0058760	408.2216	.0152906	.0518322
#2	2.175933	10.98053	.2334857	.0084979	411.9571	.0126605	.0569985
#3	2.196287	11.02714	.3456347	.0111292	408.2346	.0129814	.0637889

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.345317	.0496633	.1222690	.1862308	.0063039	.4897676	2.985653
Stddev	.044828	.0075459	.0617569	.0976679	.0015041	.0088650	1.433716
%RSD	1.031628	15.19417	50.50909	52.44456	23.85995	1.810047	48.02020
#1	4.383352	.0424811	.0623282	.0921800	.0079621	.4999585	1.554812
#2	4.295894	.0489821	.1187841	.1793596	.0059223	.4855077	2.979920
#3	4.356706	.0575268	.1856945	.2871529	.0050273	.4838366	4.422227

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03MSD Acquired: 11/8/2024 15:57:24 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4357237	.0195619	.1450026
Stddev	.0030451	.0003144	.0012426
%RSD	.6988696	1.607108	.8569329
#1	.4365486	.0198689	.1464315
#2	.4323511	.0195763	.1441748
#3	.4382714	.0192406	.1444016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2252.050	51856.07	13374.04	1617.869	3512.189
Stddev	2.200	174.48	20.06	3.987	12.599
%RSD	.0976822	.3364644	.1500140	.2464600	.3587241
#1	2253.997	51837.26	13385.54	1614.159	3525.510
#2	2249.664	51691.76	13350.88	1617.362	3500.464
#3	2252.489	52039.19	13385.71	1622.086	3510.592

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03A Acquired: 11/8/2024 16:01:47 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0536679	.1866828	.0650718	.1708692	.0416122	.0534480	.2837427
Stddev	.0581136	.1698234	.0652261	.1580360	.0366023	.0259555	.0016097
%RSD	108.2837	90.96898	100.2373	92.48944	87.96047	48.56203	.5673198
#1	.0088211	.0472720	.0144131	.0463360	.0125676	.0740266	.2855064
#2	.0328621	.1369585	.0421339	.1176197	.0295443	.0620288	.2823527
#3	.1193206	.3758180	.1386683	.3486519	.0827246	.0242888	.2833691

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011842	.0128599	64.12062	.0039125	.0144481	.0251120	3.054415
Stddev	.0001054	.0127891	.35539	.0003210	.0130673	.0198001	.046498
%RSD	8.900087	99.44924	.5542460	8.204980	90.44292	78.84723	1.522332
#1	.0013057	.0031949	63.81992	.0042829	.0046228	.0100375	3.107464
#2	.0011167	.0080228	64.02915	.0037382	.0094436	.0177625	3.035059
#3	.0011303	.0273620	64.51281	.0037163	.0292780	.0475359	3.020721

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.173048	10.90702	.0339790	.0013503	407.9730	.0057642	.0411392
Stddev	.010004	.05073	.0320283	.0001103	.2787	.0045266	.0004776
%RSD	.4603653	.4650819	94.25896	8.169468	.0683175	78.52926	1.160943
#1	2.171191	10.86734	.0097532	.0014493	407.8750	.0098955	.0414101
#2	2.164102	10.88954	.0218919	.0012314	408.2875	.0064715	.0414197
#3	2.183850	10.96417	.0702920	.0013703	407.7565	.0009256	.0405877

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.999067	.0286482	.0201056	.0245413	.0042145	.4788499	.4393250
Stddev	.108032	.0002971	.0182378	.0263322	.0025289	.0129982	.4427277
%RSD	2.701433	1.037111	90.71003	107.2977	60.00430	2.714465	100.7745
#1	4.114482	.0287670	.0062298	.0049622	.0070984	.4914083	.0993462
#2	3.982352	.0288675	.0133244	.0141843	.0031696	.4796891	.2786807
#3	3.900366	.0283101	.0407626	.0544773	.0023755	.4654525	.9399482

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-03A Acquired: 11/8/2024 16:01:47 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4417638	.0166578	.1396938
Stddev	.0016002	.0019302	.0020874
%RSD	.3622341	11.58737	1.494268
#1	.4429463	.0186071	.1420996
#2	.4399429	.0147473	.1386186
#3	.4424020	.0166192	.1383632

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2266.798	51953.86	13432.28	1606.886	3542.616
Stddev	4.405	118.71	33.01	7.255	7.379
%RSD	.1943491	.2284977	.2457648	.4514871	.2082908
#1	2266.734	51821.28	13467.64	1598.688	3547.200
#2	2262.424	51989.98	13426.91	1612.478	3534.104
#3	2271.235	52050.32	13402.27	1609.493	3546.543

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4722-04 Acquired: 11/8/2024 16:06:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006672	-.010378	.2348726	.0030754	.0057095	.1154095	.1983831
Stddev	.001055	.002229	.0011647	.0004660	.0005724	.0059232	.0015791
%RSD	15.80846	21.48097	.4958881	15.15332	10.02493	5.132360	.7959642
#1	-.007770	-.011478	.2360120	.0025463	.0051441	.1222217	.1965601
#2	-.005666	-.011843	.2349215	.0032550	.0056960	.1114739	.1992631
#3	-.006580	-.007812	.2336842	.0034249	.0062886	.1125330	.1993261

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000138	.0019064	181.3179	-.000861	.0043005	.0141424	.2703972
Stddev	.000058	.0000504	1.0984	.000078	.0002120	.0002238	.0009912
%RSD	41.86410	2.642252	.6057925	9.092344	4.929211	1.582505	.3665721
#1	-.000118	.0019071	180.0626	-.000952	.0044356	.0138856	.2710355
#2	-.000093	.0019565	182.1026	-.000817	.0040562	.0142960	.2692553
#3	-.000203	.0018557	181.7885	-.000815	.0044098	.0142455	.2709008

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4036363	3.173410	.0048448	.0001803	412.3553	.0008378	.3992489
Stddev	.0027033	.026605	.0003325	.0002017	3.5688	.0008080	.0035723
%RSD	.6697365	.8383867	6.862199	111.9113	.8654774	96.44722	.8947564
#1	.4010486	3.145347	.0044609	-.000042	416.0873	-.000035	.3999464
#2	.4064420	3.198267	.0050422	.000351	412.0029	.000987	.3953793
#3	.4034185	3.176617	.0050311	.000232	408.9758	.001560	.4024210

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.019557	.0156153	.0035238	.0083561	.0021332	2.862247	.0098778
Stddev	.022814	.0007111	.0004194	.0001023	.0001232	.013085	.0037148
%RSD	1.129637	4.553653	11.90117	1.224606	5.774087	.4571447	37.60790
#1	2.028943	.0149677	.0038543	.0082380	.0022526	2.869387	.0066971
#2	1.993547	.0155019	.0036652	.0084118	.0020065	2.847145	.0089756
#3	2.036180	.0163762	.0030520	.0084185	.0021405	2.870208	.0139606

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4722-04 Acquired: 11/8/2024 16:06:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.324806	.0395441	.6991047
Stddev	.009659	.0012036	.0039965
%RSD	.2905277	3.043770	.5716632
#1	3.325523	.0409046	.6944963
#2	3.314809	.0391099	.7016191
#3	3.334088	.0386178	.7011987

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2192.919	49997.00	13091.67	1539.940	3458.735
Stddev	8.598	227.08	64.23	12.004	14.926
%RSD	.3920784	.4541790	.4906290	.7795025	.4315415
#1	2194.726	49906.90	13159.23	1527.216	3457.521
#2	2183.561	50255.29	13031.39	1551.064	3444.453
#3	2200.469	49828.80	13084.38	1541.539	3474.231

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4722-09 Acquired: 11/8/2024 16:10:37 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007981	-.008014	.1842782	.0051174	.0025883	-.026109	.1484435
Stddev	.002080	.001592	.0002126	.0005171	.0001282	.007708	.0019522
%RSD	26.06585	19.86138	.1153906	10.10396	4.953385	29.52049	1.315127
#1	-.007664	-.009190	.1845227	.0051801	.0027197	-.017610	.1463844
#2	-.010201	-.006203	.1841361	.0045718	.0025816	-.028071	.1486786
#3	-.006077	-.008650	.1841759	.0056002	.0024635	-.032647	.1502675

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000135	.0016478	179.2253	-.001065	.0030142	.0131661	.0175708
Stddev	.000016	.0000467	2.0245	.000323	.0000475	.0000865	.0029261
%RSD	11.87808	2.835189	1.129560	30.31097	1.575366	.6567059	16.65343
#1	-.000154	.0016879	176.9003	-.000873	.0030269	.0132319	.0199739
#2	-.000127	.0016591	180.1770	-.000885	.0029616	.0130681	.0184261
#3	-.000125	.0015965	180.5984	-.001438	.0030540	.0131982	.0143123

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1904068	2.750696	.0026236	.0002611	406.3451	.0000166	.3314349
Stddev	.0015568	.027654	.0002445	.0001453	3.9579	.0007472	.0010442
%RSD	.8176208	1.005352	9.317261	55.63439	.9740352	4511.637	.3150499
#1	.1886870	2.719843	.0029056	.0003954	402.5905	-.000368	.3315574
#2	.1908137	2.773251	.0024714	.0001069	410.4791	-.000460	.3324124
#3	.1917198	2.758994	.0024938	.0002811	405.9658	.000878	.3303348

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.219294	.0141498	.0020240	-.005489	-.002725	2.250472	.0061485
Stddev	.017560	.0004728	.0003784	.000942	.000331	.002741	.0016439
%RSD	.7912378	3.341501	18.69679	17.16550	12.14594	.1217783	26.73579
#1	2.216527	.0136305	.0023678	-.005962	-.003056	2.249520	.0061220
#2	2.203282	.0142635	.0016185	-.006101	-.002394	2.248334	.0078054
#3	2.238073	.0145555	.0020855	-.004404	-.002727	2.253562	.0045181

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4722-09 Acquired: 11/8/2024 16:10:37 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.587940	.0399456	.6129182
Stddev	.005470	.0007082	.0072497
%RSD	.1524582	1.772933	1.182820
#1	3.590965	.0391685	.6050317
#2	3.591230	.0405547	.6144302
#3	3.581625	.0401137	.6192927

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2135.986	49299.05	13175.13	1495.485	3401.796
Stddev	12.103	13.05	113.08	1.010	13.685
%RSD	.5666451	.0264739	.8582862	.0675371	.4022732
#1	2144.466	49284.02	13304.73	1496.316	3412.708
#2	2141.367	49307.55	13124.13	1495.778	3406.238
#3	2122.125	49305.57	13096.53	1494.361	3386.442

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4722-14 Acquired: 11/8/2024 16:15:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008269	-.008719	.0973884	.0045932	.0005350	.1466788
Stddev	.001050	.001658	.0004506	.0006672	.0003387	.0050995
%RSD	12.69212	19.01195	.4626941	14.52502	63.31378	3.476612
#1	-.008011	-.008919	.0978700	.0038332	.0008090	.1499389
#2	-.007373	-.006970	.0973182	.0048644	.0001563	.1408022
#3	-.009424	-.010267	.0969770	.0050821	.0006396	.1492953

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1187528	-.000100	.0041159	148.6765	-.000469	.0019027
Stddev	.0012287	.000030	.0000691	.8445	.000285	.0000500
%RSD	1.034666	30.13151	1.679954	.5679862	60.74219	2.625473
#1	.1176688	-.000111	.0040701	148.0129	-.000791	.0019563
#2	.1185021	-.000123	.0041954	148.3896	-.000367	.0018944
#3	.1200875	-.000066	.0040820	149.6270	-.000249	.0018575

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0237178	.1914576	.2951443	3.161605	.0092890	.0003441
Stddev	.0003412	.0031223	.0026733	.009326	.0002734	.0001206
%RSD	1.438641	1.630811	.9057571	.2949812	2.942796	35.05150
#1	.0233921	.1881971	.2928292	3.162970	.0093013	.0002679
#2	.0236888	.1917553	.2945337	3.151672	.0095560	.0004832
#3	.0240726	.1944204	.2980701	3.170174	.0090097	.0002813

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	445.5944	.0010785	.2487376	2.385005	.0172009	.0018706
Stddev	5.1856	.0010348	.0006140	.019462	.0000380	.0002131
%RSD	1.163757	95.94228	.2468535	.8160078	.2207127	11.39244
#1	451.5714	.0022566	.2489583	2.366310	.0171775	.0021158
#2	442.2934	.0003166	.2492107	2.405152	.0172447	.0017294
#3	442.9185	.0006624	.2480437	2.383554	.0171805	.0017667

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4722-14 Acquired: 11/8/2024 16:15:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005680	.0039292	2.507109	.0211031	F 10.80918	.0320102
Stddev	.000517	.0003519	.006936	.0026026	.01804	.0010150
%RSD	9.105407	8.956932	.2766582	12.33292	.1669094	3.170825
#1	-.005084	.0043004	2.513891	.0238516	10.82299	.0325068
#2	-.005942	.0036004	2.507408	.0207815	10.81578	.0308425
#3	-.006014	.0038867	2.500029	.0186762	10.78877	.0326812

Elem	Sr4077
Units	ppm
Avg	.7124910
Stddev	.0086295
%RSD	1.211172
#1	.7063824
#2	.7087276
#3	.7223631

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2174.474	50145.78	13242.11	1514.989	3433.144
Stddev	2.939	174.70	74.21	9.400	6.810
%RSD	.1351604	.3483784	.5604380	.6204347	.1983685
#1	2173.062	50111.69	13290.60	1513.667	3425.694
#2	2177.853	49990.65	13279.06	1506.321	3439.050
#3	2172.507	50335.01	13156.68	1524.980	3434.690

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4732-02 Acquired: 11/8/2024 16:19:26 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008564	-.007734	.0109798	.0064139	.0188431	.1200091	.1174769
Stddev	.002441	.001602	.0001606	.0010563	.0005031	.0060041	.0005462
%RSD	28.49792	20.71438	1.462393	16.46888	2.670091	5.003055	.4649761
#1	-.007167	-.007293	.0107960	.0058643	.0185006	.1148741	.1175635
#2	-.007143	-.006398	.0110925	.0076316	.0194208	.1185426	.1168925
#3	-.011383	-.009510	.0110510	.0057456	.0186080	.1266106	.1179746

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000068	-.000090	12.92294	-.000141	.0013896	.0096713	.0290423
Stddev	.000036	.000042	.05432	.000088	.0001764	.0000500	.0023463
%RSD	53.30289	47.39328	.4203512	62.28538	12.69258	.5173561	8.078757
#1	-.000042	-.000062	12.86173	-.000143	.0011984	.0096141	.0293649
#2	-.000109	-.000068	12.94168	-.000052	.0015459	.0097067	.0312106
#3	-.000051	-.000138	12.96541	-.000228	.0014244	.0096931	.0265515

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0245747	.5676446	.0009476	.0003745	410.7143	-.000116	.1550837
Stddev	.0004352	.0080295	.0002263	.0002112	3.9993	.000907	.0011079
%RSD	1.770867	1.414532	23.87976	56.39578	.9737398	781.3612	.7144014
#1	.0246789	.5640335	.0007562	.0003431	409.7912	.000001	.1546711
#2	.0240968	.5620546	.0008893	.0005996	415.0944	.000727	.1563387
#3	.0249483	.5768456	.0011974	.0001807	407.2572	-.001076	.1542413

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.073832	.0389112	.0009079	-.002886	-.000138	.2821432	.0078815
Stddev	.017931	.0002020	.0001605	.000378	.000230	.0047668	.0010942
%RSD	1.669854	.5190345	17.67461	13.09422	167.0548	1.689500	13.88338
#1	1.077227	.0390751	.0009205	-.003318	.000049	.2874377	.0088310
#2	1.054446	.0386856	.0007415	-.002614	-.000395	.2781926	.0066848
#3	1.089823	.0389729	.0010616	-.002728	-.000068	.2807993	.0081288

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4732-02 Acquired: 11/8/2024 16:19:26 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7838916	.0026756	.0793841
Stddev	.0042012	.0005768	.0003534
%RSD	.5359403	21.55721	.4451784
#1	.7838205	.0021298	.0792084
#2	.7881279	.0032790	.0791530
#3	.7797265	.0026181	.0797909

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2251.012	51882.14	13385.92	1601.853	3590.874
Stddev	5.333	29.52	15.74	1.788	8.866
%RSD	.2369112	.0568964	.1176106	.1116146	.2468968
#1	2247.403	51915.96	13395.46	1600.384	3581.656
#2	2257.137	51861.55	13394.55	1601.331	3599.339
#3	2248.494	51868.92	13367.75	1603.844	3591.627

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV03 Acquired: 11/8/2024 16:23:53 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.983006	5.141580	4.844179	5.127576	5.110164	9.930927	9.613988
Stddev	.005119	.067688	.011360	.008215	.008771	.010200	.061277
%RSD	.1027365	1.316482	.2345133	.1602056	.1716457	.1027054	.6373696
#1	4.978450	5.217674	4.841818	5.136207	5.100368	9.927364	9.651832
#2	4.982022	5.118991	4.834185	5.119853	5.112837	9.942430	9.543291
#3	4.988546	5.088075	4.856534	5.126666	5.117289	9.922987	9.646841

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2341800	2.382947	23.58227	.9299697	2.411664	1.267812	4.879000
Stddev	.0002613	.001790	.06399	.0016626	.002239	.000850	.016371
%RSD	.1115694	.0751075	.2713510	.1787852	.0928391	.0670790	.3355476
#1	.2341831	2.381263	23.55614	.9289517	2.409391	1.267222	4.860292
#2	.2344398	2.382751	23.65520	.9318883	2.411734	1.267426	4.890705
#3	.2339172	2.384827	23.53549	.9290690	2.413868	1.268787	4.886004

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.390952	23.68473	2.412333	1.248813	25.08002	2.417251	2.556003
Stddev	.007136	.11654	.003134	.001598	.11431	.010878	.005925
%RSD	.2984475	.4920675	.1298984	.1279882	.4557935	.4500162	.2318050
#1	2.391649	23.59632	2.409075	1.248772	25.20431	2.411275	2.556421
#2	2.397714	23.81680	2.412598	1.250431	25.05637	2.429807	2.561707
#3	2.383493	23.64107	2.415326	1.247235	24.97938	2.410670	2.549880

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.61211	4.690146	5.047633	4.772787	4.747804	5.001376	4.916936
Stddev	.04947	.007174	.004337	.003867	.012257	.042474	.011895
%RSD	.1931610	.1529490	.0859222	.0810266	.2581619	.8492543	.2419140
#1	25.56873	4.692198	5.051095	4.774447	4.750104	4.952671	4.929514
#2	25.60161	4.696070	5.042768	4.775547	4.758748	5.030723	4.915426
#3	25.66599	4.682170	5.049035	4.768367	4.734560	5.020733	4.905868

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV03 Acquired: 11/8/2024 16:23:53 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.735586	4.686788	4.900711
Stddev	.004987	.011502	.038376
%RSD	.1053107	.2454159	.7830677
#1	4.736215	4.699864	4.907525
#2	4.740228	4.678233	4.859384
#3	4.730314	4.682266	4.935223

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2438.377	54599.74	13519.50	1711.192	3900.808
Stddev	3.548	122.86	50.83	6.617	4.192
%RSD	.1455111	.2250175	.3759962	.3866620	.1074660
#1	2435.690	54546.74	13482.74	1707.654	3898.433
#2	2442.399	54512.28	13498.25	1707.096	3905.648
#3	2437.043	54740.20	13577.51	1718.825	3898.342

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB03 Acquired: 11/8/2024 16:28:05 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000776	-.000371	-.000410	.0023705	.0000697	.0040354	-.004181
Stddev	.001907	.001978	.001048	.0010538	.0008357	.0026507	.000254
%RSD	245.7142	532.8152	255.9346	44.45253	1198.832	65.68500	6.064940
#1	-.001955	.000646	-.001593	.0028249	-.000430	.0012658	-.004462
#2	.001424	-.002650	-.000039	.0011658	.001034	.0042920	-.003968
#3	-.001797	.000891	.000403	.0031209	-.000395	.0065484	-.004114

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000503	-.000009	-.000937	.0000971	.0000029	-.000244	-.001179
Stddev	.0000207	.000045	.005530	.0002629	.0001002	.000212	.002135
%RSD	41.22271	523.4946	589.9388	270.8975	3429.871	86.60154	181.0352
#1	.0000600	.000043	-.004078	.0001086	-.000112	-.000340	.001252
#2	.0000644	-.000033	.005448	-.000171	.000051	-.000002	-.002041
#3	.0000265	-.000036	-.004183	.000354	.000070	-.000391	-.002748

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000211	-.004102	.0000020	.0006911	.1418112	-.000307	.0000970
Stddev	.000210	.005836	.0000633	.0002031	.0106294	.000547	.0000637
%RSD	99.93789	142.2674	3200.847	29.38299	7.495464	178.3824	65.62697
#1	-.000069	-.007053	.0000685	.0006014	.1295565	-.000697	.0000529
#2	-.000110	.002620	-.000005	.0005483	.1473457	-.000541	.0000681
#3	-.000452	-.007874	-.000058	.0009235	.1485314	.000318	.0001700

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0433529	.0030010	.0003007	.0001022	.0003558	-.002272	-.003496
Stddev	.0089947	.0003540	.0001468	.0009996	.0000714	.002576	.001415
%RSD	20.74771	11.79711	48.82331	977.6360	20.07537	113.4126	40.47415
#1	.0460023	.0033668	.0004666	.0005933	.0002869	-.000386	-.003088
#2	.0333310	.0029760	.0001876	.0007612	.0003508	-.005207	-.002330
#3	.0507253	.0026601	.0002479	-.001048	.0004295	-.001221	-.005070

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB03 Acquired: 11/8/2024 16:28:05 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003431	-.001212	.0000476
Stddev	.003286	.001061	.0000286
%RSD	95.77668	87.54643	59.94383
#1	-.001632	-.002227	.0000396
#2	-.001438	-.001299	.0000794
#3	-.007224	-.000110	.0000240

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2564.128	58201.22	13462.94	1820.149	4394.196
Stddev	5.214	146.86	17.97	14.712	7.698
%RSD	.2033323	.2523349	.1334898	.8082938	.1751923
#1	2566.106	58038.21	13481.18	1803.701	4391.322
#2	2568.064	58323.21	13462.38	1832.055	4402.917
#3	2558.215	58242.23	13445.25	1824.690	4388.347

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4738-02 Acquired: 11/8/2024 16:32:25 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004217	-.005472	.0483003	.0028456	-.000855	.6002101	.2554351
Stddev	.002288	.000896	.0004863	.0016720	.000455	.0009278	.0005232
%RSD	54.24636	16.38148	1.006936	58.75731	53.26144	.1545777	.2048250
#1	-.002041	-.005748	.0484612	.0047672	-.001369	.6012514	.2559991
#2	-.004008	-.006197	.0486858	.0017226	-.000692	.5994713	.2549657
#3	-.006602	-.004470	.0477539	.0020470	-.000503	.5999076	.2553404

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000211	-.000056	1.149504	-.000680	.0060742	.0349568	.5442088
Stddev	.0000242	.000030	.004346	.000464	.0001824	.0001465	.0129110
%RSD	114.6299	52.88823	.3780842	68.24211	3.002773	.4191566	2.372441
#1	.0000015	-.000026	1.154036	-.000834	.0062512	.0348235	.5591056
#2	.0000137	-.000085	1.145372	-.000158	.0060845	.0349331	.5372693
#3	.0000481	-.000058	1.149105	-.001046	.0058868	.0351137	.5362515

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0514861	.3270506	.0009050	.0002560	475.0999	.0012339	.2272937
Stddev	.0001086	.0030840	.0002632	.0000986	3.7583	.0007093	.0006245
%RSD	.2108459	.9429810	29.08358	38.52620	.7910650	57.48307	.2747623
#1	.0515677	.3265388	.0006087	.0001422	478.7126	.0020118	.2265765
#2	.0515278	.3303586	.0011118	.0003082	471.2112	.0006231	.2277174
#3	.0513629	.3242546	.0009946	.0003175	475.3760	.0010668	.2275872

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6583916	.0862013	.0010870	.0032536	.0044054	.5330043	.1222963
Stddev	.0118958	.0004021	.0001684	.0005452	.0002678	.0030408	.0044752
%RSD	1.806802	.4664762	15.48716	16.75611	6.078698	.5704977	3.659328
#1	.6582346	.0860387	.0011530	.0037821	.0046555	.5324172	.1235790
#2	.6465751	.0866593	.0012123	.0032855	.0041229	.5302998	.1259902
#3	.6703652	.0859061	.0008957	.0026931	.0044377	.5362958	.1173198

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4738-02 Acquired: 11/8/2024 16:32:25 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.105302	.0009075	.0101697
Stddev	.011796	.0006753	.0000310
%RSD	.3798779	74.41529	.3049546
#1	3.116107	.0001283	.0101340
#2	3.107082	.0012716	.0101855
#3	3.092717	.0013227	.0101897

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2342.505	52109.21	12794.65	1674.627	3595.805
Stddev	1.796	140.03	38.05	3.386	2.775
%RSD	.0766881	.2687162	.2974029	.2022011	.0771734
#1	2344.180	51965.38	12829.64	1673.701	3598.872
#2	2340.608	52117.18	12754.14	1678.379	3593.467
#3	2342.726	52245.09	12800.18	1671.800	3595.077

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-04 Acquired: 11/8/2024 16:36:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007579	-.009555	.0021510	.0051383	-.000245	.6866099	.1637795
Stddev	.002465	.001314	.0006579	.0011962	.000708	.0028073	.0001519
%RSD	32.52784	13.74720	30.58729	23.28046	289.0269	.4088615	.0927640
#1	-.006211	-.008159	.0019005	.0042797	.000510	.6887100	.1636425
#2	-.006101	-.009739	.0016551	.0065046	-.000895	.6876982	.1639429
#3	-.010425	-.010767	.0028974	.0046305	-.000349	.6834214	.1637531

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001503	.0004491	8.405670	-.000400	.0084274	.0100916	6.961949
Stddev	.0000181	.0000404	.056080	.000255	.0000227	.0000644	.023639
%RSD	12.06860	9.004738	.6671635	63.79719	.2689537	.6379085	.3395478
#1	.0001555	.0004147	8.340915	-.000576	.0084099	.0101003	6.935556
#2	.0001653	.0004936	8.438184	-.000517	.0084193	.0100233	6.969114
#3	.0001301	.0004390	8.437911	-.000107	.0084530	.0101511	6.981177

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6358822	2.156539	.0028360	.0005995	397.1615	.0010860	.0650015
Stddev	.0071432	.024739	.0002200	.0002623	1.1599	.0001535	.0007274
%RSD	1.123353	1.147182	7.755917	43.75372	.2920515	14.13676	1.119111
#1	.6276340	2.130834	.0026070	.0006656	397.9433	.0009169	.0642531
#2	.6399904	2.180184	.0030457	.0008224	395.8288	.0012167	.0650455
#3	.6400223	2.158598	.0028553	.0003105	397.7125	.0011244	.0657060

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.626916	.0200019	.0003866	-.002134	.0193344	1.176795	.0183177
Stddev	.019513	.0005102	.0001066	.000891	.0007624	.001225	.0020242
%RSD	.5380142	2.550702	27.57569	41.75079	3.943251	.1041323	11.05072
#1	3.647677	.0194772	.0002803	-.002309	.0201932	1.176179	.0197887
#2	3.624118	.0204963	.0004935	-.001169	.0190724	1.178206	.0191554
#3	3.608953	.0200322	.0003862	-.002925	.0187374	1.176000	.0160091

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-04 Acquired: 11/8/2024 16:36:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9398085	.0017522	.0802308
Stddev	.0045981	.0010227	.0001720
%RSD	.4892559	58.36502	.2143590
#1	.9367368	.0028266	.0800930
#2	.9375940	.0007905	.0804236
#3	.9450948	.0016397	.0801760

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2249.434	51901.13	13482.37	1596.038	3594.718
Stddev	12.760	66.43	45.06	5.884	12.598
%RSD	.5672548	.1279974	.3341944	.3686925	.3504630
#1	2234.700	51824.45	13533.82	1596.896	3580.575
#2	2256.781	51941.18	13450.00	1601.447	3598.844
#3	2256.821	51937.76	13463.28	1589.772	3604.737

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-08 Acquired: 11/8/2024 16:41:18 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001188	-.007310	.0055411	-.001637	.0002910	.1330510	.2413279
Stddev	.002237	.002189	.0010229	.001117	.0008203	.0045375	.0009650
%RSD	188.2621	29.94860	18.45954	68.23419	281.9394	3.410326	.3998498
#1	-.003456	-.006154	.0048373	-.002875	-.000642	.1356810	.2421322
#2	-.001126	-.009835	.0067144	-.001333	.000618	.1278116	.2402579
#3	.001017	-.005941	.0050715	-.000704	.000897	.1356604	.2415935

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003110	.0019934	22.12181	-.000276	.0233662	.0033607	26.76779
Stddev	.0000266	.0000938	.09223	.000240	.0004412	.0004671	.11879
%RSD	8.536617	4.704671	.4169267	86.86155	1.888363	13.89959	.4437835
#1	.0002839	.0019106	22.03905	-.000463	.0228788	.0029458	26.76201
#2	.0003122	.0019743	22.10514	-.000360	.0237383	.0038667	26.65199
#3	.0003370	.0020953	22.22124	-.000006	.0234816	.0032696	26.88936

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.060695	2.172443	.0173715	.0006693	398.1552	.0015920	.0758023
Stddev	.013236	.014094	.0003222	.0000759	3.6170	.0002378	.0006057
%RSD	.3259569	.6487460	1.854911	11.33606	.9084392	14.93948	.7990064
#1	4.048524	2.175897	.0170026	.0006293	402.2906	.0013376	.0753285
#2	4.058774	2.156944	.0175980	.0006218	395.5811	.0018087	.0764847
#3	4.074786	2.184489	.0175139	.0007568	396.5939	.0016298	.0755937

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.988701	.0255143	-.000222	-.004000	.0022418	2.369090	.0089090
Stddev	.014417	.0005271	.000132	.000346	.0001985	.014655	.0017186
%RSD	.7249402	2.065823	59.30755	8.650326	8.855003	.6186108	19.29049
#1	1.997947	.0258446	-.000095	-.004318	.0024479	2.383330	.0101815
#2	1.972089	.0249064	-.000358	-.004049	.0022257	2.354052	.0095914
#3	1.996067	.0257918	-.000214	-.003632	.0020518	2.369888	.0069540

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-08 Acquired: 11/8/2024 16:41:18 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4182396	.0044049	.0987120
Stddev	.0033006	.0008758	.0001183
%RSD	.7891699	19.88310	.1197921
#1	.4144292	.0040452	.0988482
#2	.4200747	.0054033	.0986520
#3	.4202149	.0037662	.0986357

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2330.289	52260.69	13753.85	1631.940	3684.855
Stddev	12.025	190.60	17.65	6.741	21.011
%RSD	.5160113	.3647134	.1282959	.4130736	.5701972
#1	2343.215	52078.99	13770.80	1627.788	3709.113
#2	2328.216	52459.09	13755.18	1628.313	3673.090
#3	2319.435	52243.99	13735.58	1639.718	3672.363

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-12 Acquired: 11/8/2024 16:45:45 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044315	-.008387	.0802410	.0026148	.0001095	.2570675	.3439156
Stddev	.0016865	.001793	.0009279	.0021872	.0008544	.0044760	.0065408
%RSD	38.05847	21.37750	1.156449	83.64405	779.9535	1.741176	1.901852
#1	.0028103	-.009382	.0801849	.0009083	-.000135	.2542654	.3363902
#2	.0061766	-.009462	.0793423	.0018559	-.000596	.2622296	.3482332
#3	.0043075	-.006317	.0811957	.0050804	.001059	.2547075	.3471232

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004333	.0009973	19.71123	-.001052	.0079813	.0124056	6.562713
Stddev	.0000853	.0000382	.29976	.000172	.0002946	.0003923	.033090
%RSD	19.69328	3.831260	1.520752	16.32118	3.690705	3.162278	.5042174
#1	.0005104	.0010349	19.37421	-.000971	.0078792	.0128510	6.583550
#2	.0003416	.0009585	19.81139	-.000935	.0077513	.0121115	6.580031
#3	.0004479	.0009986	19.94808	-.001249	.0083133	.0122542	6.524557

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.566064	3.319926	.0074689	.0003065	374.7236	.0001717	.2011890
Stddev	.022916	.060787	.0000945	.0001225	2.8876	.0005191	.0018610
%RSD	1.463311	1.830986	1.265578	39.96370	.7705836	302.2939	.9249904
#1	1.540126	3.258849	.0075702	.0004243	376.9674	-.000426	.2031756
#2	1.583571	3.320508	.0073831	.0001798	375.7377	.000431	.2009053
#3	1.574494	3.380420	.0074534	.0003154	371.4658	.000510	.1994862

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.784197	.0232215	.0005525	-.001189	.0076382	.8614924	.0070812
Stddev	.013930	.0005695	.0001070	.000733	.0005816	.0072166	.0007859
%RSD	.7807710	2.452352	19.37049	61.67411	7.614425	.8376891	11.09876
#1	1.797661	.0229804	.0005279	-.002035	.0072503	.8630006	.0076155
#2	1.785088	.0228122	.0006697	-.000725	.0083069	.8678358	.0074493
#3	1.769843	.0238719	.0004599	-.000807	.0073573	.8536409	.0061788

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-12 Acquired: 11/8/2024 16:45:45 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3434494	.0038708	.0756276
Stddev	.0043632	.0010039	.0015138
%RSD	1.270396	25.93549	2.001696
#1	.3394346	.0048835	.0738824
#2	.3480928	.0038530	.0765865
#3	.3428210	.0028759	.0764138

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2330.508	53616.23	13630.92	1656.586	3691.923
Stddev	9.161	339.39	164.98	12.712	7.152
%RSD	.3930703	.6330020	1.210359	.7673712	.1937144
#1	2327.640	53336.48	13819.77	1644.116	3688.686
#2	2323.125	53518.41	13558.26	1656.114	3686.963
#3	2340.760	53993.78	13514.75	1669.528	3700.121

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-16 Acquired: 11/8/2024 16:50:10 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009139	-.011080	.0011944	.0040080	-.000296	-.013515	.1798903
Stddev	.000912	.000339	.0005067	.0011140	.000657	.005351	.0002267
%RSD	9.976053	3.056851	42.42254	27.79531	222.1113	39.59220	.1260366
#1	-.009437	-.010949	.0009658	.0052876	-.000368	-.013954	.1800228
#2	-.008116	-.011465	.0008422	.0034828	.000394	-.018633	.1796286
#3	-.009865	-.010826	.0017751	.0032538	-.000914	-.007958	.1800197

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000144	.0009484	141.7434	-.000589	.0056114	.0085340	.0259809
Stddev	.000061	.0000258	.5250	.000246	.0001405	.0000691	.0020083
%RSD	42.35948	2.718476	.3703730	41.78847	2.503430	.8094879	7.729859
#1	-.000167	.0009288	141.2826	-.000776	.0057347	.0085167	.0278202
#2	-.000189	.0009387	141.6328	-.000310	.0054585	.0086100	.0238382
#3	-.000074	.0009776	142.3149	-.000682	.0056410	.0084751	.0262844

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.044395	2.582080	.0047419	.0004171	381.7052	-.000490	.0814396
Stddev	.004829	.017076	.0004596	.0001105	2.2400	.000295	.0006732
%RSD	.4623358	.6613457	9.692184	26.47838	.5868444	60.23412	.8266285
#1	1.043404	2.582204	.0042133	.0005368	383.4548	-.000819	.0812583
#2	1.040139	2.599094	.0049651	.0003953	379.1806	-.000250	.0808755
#3	1.049642	2.564941	.0050473	.0003192	382.4801	-.000400	.0821848

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.779204	.0635129	.0012086	-.005358	-.001838	4.210445	.0028598
Stddev	.009313	.0006960	.0002116	.000973	.000145	.008836	.0018096
%RSD	.3351034	1.095895	17.51164	18.16585	7.902364	.2098524	63.27818
#1	2.789477	.0634678	.0009713	-.004772	-.001671	4.200833	.0036617
#2	2.776822	.0628405	.0012769	-.006481	-.001935	4.218213	.0041299
#3	2.771314	.0642304	.0013777	-.004820	-.001908	4.212289	.0007878

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-16 Acquired: 11/8/2024 16:50:10 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.773910	.0278059	.4826999
Stddev	.007475	.0009380	.0008538
%RSD	.2694697	3.373236	.1768810
#1	2.765981	.0269525	.4830882
#2	2.774919	.0288101	.4817209
#3	2.780829	.0276551	.4832905

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2245.597	52368.71	13403.64	1605.856	3545.977
Stddev	4.132	121.85	55.09	1.197	3.626
%RSD	.1839852	.2326703	.4109767	.0745695	.1022566
#1	2246.232	52331.11	13403.24	1605.382	3548.575
#2	2249.374	52504.92	13458.92	1607.219	3547.523
#3	2241.184	52270.10	13348.75	1604.969	3541.835

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164694TB Acquired: 11/8/2024 16:54:36 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005029	-.008298	-.001664	.0052929	.0001494	.0073285	-.005294
Stddev	.001806	.000449	.000611	.0022342	.0000964	.0031694	.000272
%RSD	35.90539	5.415946	36.69414	42.21224	64.53145	43.24822	5.141653
#1	-.004842	-.008496	-.001778	.0054558	.0002123	.0104930	-.005016
#2	-.006921	-.008615	-.001004	.0029816	.0000384	.0041541	-.005306
#3	-.003324	-.007784	-.002209	.0074411	.0001974	.0073384	-.005560

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000151	-.000068	-.035937	-.000707	-.000128	.0002398	-.003321
Stddev	.000036	.000087	.001911	.000380	.000075	.0000899	.003784
%RSD	23.53774	128.1305	5.317131	53.67868	58.53606	37.48256	113.9673
#1	-.000135	-.000100	-.037788	-.001093	-.000154	.0003133	-.007191
#2	-.000192	-.000136	-.036050	-.000335	-.000044	.0002665	-.003143
#3	-.000126	.000031	-.033972	-.000693	-.000187	.0001396	.000372

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010873	-.009713	-.000209	.0006070	367.9765	-.000450	.0007267
Stddev	.0001062	.003296	.000164	.0002375	4.1512	.001252	.0000784
%RSD	9.764954	33.93405	78.74587	39.13153	1.128125	277.9858	10.79314
#1	.0011358	-.012817	-.000276	.0007723	369.5523	-.001591	.0006777
#2	.0011605	-.010068	-.000021	.0007139	363.2680	.000889	.0006854
#3	.0009655	-.006254	-.000328	.0003348	371.1090	-.000649	.0008172

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170846	-.002024	.0003718	-.001480	.0005775	-.004150	-.005269
Stddev	.0104647	.000464	.0003615	.000305	.0001526	.003514	.001950
%RSD	61.25221	22.94177	97.23852	20.58082	26.42846	84.67946	37.01735
#1	.0062384	-.002051	.0000324	-.001784	.0004118	-.003772	-.003774
#2	.0178947	-.001547	.0003311	-.001175	.0006082	-.000840	-.004558
#3	.0271207	-.002474	.0007520	-.001481	.0007124	-.007838	-.007475

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164694TB Acquired: 11/8/2024 16:54:36 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0097902	-.001159	.0000227
Stddev	.0032190	.000596	.0000238
%RSD	32.87949	51.39867	104.9877
#1	.0083474	-.001745	.0000099
#2	.0134782	-.001181	.0000501
#3	.0075451	-.000553	.0000080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2289.846	52503.29	13619.00	1614.221	3687.396
Stddev	16.084	252.94	56.13	13.164	19.568
%RSD	.7024065	.4817604	.4121285	.8155205	.5306794
#1	2308.096	52530.84	13655.47	1607.947	3709.963
#2	2277.738	52741.33	13554.37	1629.349	3677.108
#3	2283.703	52237.70	13647.17	1605.368	3675.119

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164768BL Acquired: 11/8/2024 16:59:05 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002467	.0006613	-.000701	.0016356	-.000351	.0042707	-.005178
Stddev	.001453	.0008674	.000839	.0011983	.000191	.0015190	.000664
%RSD	58.89316	131.1571	119.6741	73.26193	54.52885	35.56826	12.81863
#1	-.003958	-.000040	-.001595	.0005488	-.000447	.0027565	-.005465
#2	-.002389	.000393	.000070	.0029206	-.000475	.0042613	-.005650
#3	-.001055	.001631	-.000579	.0014373	-.000131	.0057945	-.004419

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000182	-.000074	-.000582	.0002180	.0000453	-.000353	-.003323
Stddev	.0000100	.000004	.001521	.0002653	.0001162	.000128	.002124
%RSD	54.97345	4.862395	261.5481	121.7067	256.3553	36.28086	63.92804
#1	.0000119	-.000070	-.002337	.0004413	-.000089	-.000489	-.004547
#2	.0000130	-.000077	.000266	.0002879	.000105	-.000234	-.000870
#3	.0000297	-.000075	.000327	-.000075	.000120	-.000337	-.004552

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000068	.0063217	.0000284	.0006900	.3067792	-.000559	.0000249
Stddev	.000172	.0043123	.0001061	.0001944	.0065262	.000441	.0000862
%RSD	253.7621	68.21461	373.9126	28.17048	2.127328	78.89657	346.1023
#1	-.000248	.0024689	.0000536	.0004738	.2992799	-.000681	.0000313
#2	-.000049	.0109799	.0001196	.0007461	.3098872	-.000925	.0001077
#3	.000094	.0055163	-.000088	.0008502	.3111704	-.000070	-.000064

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0558153	-.001905	.0001474	-.000015	.0001096	-.000735	-.003796
Stddev	.0245169	.000565	.0001615	.000237	.0003065	.005710	.001052
%RSD	43.92506	29.66462	109.5474	1614.640	279.7795	776.9539	27.70982
#1	.0609706	-.002213	-.000018	.000120	.0002396	-.004614	-.005001
#2	.0291307	-.002249	.000155	.000125	-.000241	.005821	-.003332
#3	.0773447	-.001253	.000305	-.000289	.000330	-.003412	-.003057

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164768BL Acquired: 11/8/2024 16:59:05 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001948	-.001771	-.000011
Stddev	.000623	.001135	.000014
%RSD	31.97322	64.07761	130.0698
#1	-.001975	-.001491	.000005
#2	-.001312	-.000803	-.000015
#3	-.002557	-.003020	-.000022

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2537.048	57562.53	13598.83	1788.288	4401.832
Stddev	8.112	135.71	95.59	8.091	8.502
%RSD	.3197271	.2357592	.7029404	.4524338	.1931453
#1	2527.710	57471.82	13593.31	1783.245	4395.596
#2	2542.341	57718.54	13506.12	1797.620	4411.517
#3	2541.095	57497.23	13697.06	1783.998	4398.384

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164768BS Acquired: 11/8/2024 17:03:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7782794	2.006453	.9299962	1.952762	.7790537	2.041646
Stddev	.0027055	.016327	.0037129	.004088	.0013410	.071881
%RSD	.3476282	.8137469	.3992393	.2093503	.1721363	3.520714
#1	.7789690	1.989451	.9331415	1.954142	.7805812	2.119525
#2	.7752958	2.022009	.9309466	1.955981	.7785100	2.027566
#3	.7805733	2.007898	.9259004	1.948162	.7780700	1.977848

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1912393	.1962884	.1802039	1.004339	.3609689	.1857643
Stddev	.0067297	.0052527	.0008392	.028874	.0008710	.0008994
%RSD	3.518965	2.676001	.4656817	2.874909	.2412833	.4841517
#1	.1983680	.2019023	.1811041	1.032881	.3600655	.1866864
#2	.1903537	.1954698	.1800644	1.004990	.3618033	.1857172
#3	.1849964	.1914931	.1794432	.975145	.3610381	.1848894

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3043614	2.758144	.2027417	1.936958	.4660477	.0726361
Stddev	.0012388	.014654	.0065641	.073275	.0018912	.0002457
%RSD	.4070055	.5312933	3.237648	3.783010	.4057967	.3382855
#1	.3055977	2.743344	.2096989	1.999716	.4677951	.0724089
#2	.3043664	2.772647	.2018678	1.954726	.4663081	.0726026
#3	.3031202	2.758440	.1966583	1.856433	.4640397	.0728969

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.766158	.2989944	.2037531	9.425299	.2862332	.3972552
Stddev	.016077	.0100740	.0001271	.013811	.0083380	.0010378
%RSD	.5812054	3.369281	.0623886	.1465315	2.913006	.2612487
#1	2.756112	.3102528	.2036282	9.439112	.2950628	.3983305
#2	2.784700	.2958988	.2037487	9.411490	.2851427	.3962594
#3	2.757660	.2908314	.2038823	9.425294	.2784941	.3971758

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164768BS Acquired: 11/8/2024 17:03:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6389619	.1955646	F .6755205	5.366020	F -.014297	.1822295
Stddev	.0017894	.0071948	.0030646	.011285	.001474	.0058077
%RSD	.2800505	3.678997	.4536670	.2103127	10.30746	3.187048
#1	.6401799	.2035014	.6746261	5.379001	-.012649	.1884596
#2	.6397983	.1937222	.6789328	5.358537	-.014755	.1812635
#3	.6369074	.1894701	.6730026	5.360521	-.015488	.1769653

Elem	Sr4077
Units	ppm
Avg	.2033678
Stddev	.0075698
%RSD	3.722235
#1	.2116136
#2	.2017566
#3	.1967333

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2576.534	58613.14	13065.75	1830.859	4341.478
Stddev	4.603	66.48	407.78	6.898	10.780
%RSD	.1786430	.1134254	3.121007	.3767856	.2482969
#1	2571.748	58632.41	12625.20	1827.506	4332.847
#2	2576.925	58667.86	13142.05	1838.793	4338.027
#3	2580.929	58539.15	13429.99	1826.278	4353.561

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02 Acquired: 11/8/2024 17:07:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003910	-.002370	.0199721	.0040338	-.000949	.0826657	.0052383
Stddev	.002755	.002805	.0019496	.0020917	.000138	.0001128	.0003415
%RSD	70.46253	118.3450	9.761646	51.85351	14.48658	.1364379	6.519106
#1	-.006105	-.005574	.0182100	.0036556	-.001079	.0827958	.0050031
#2	-.000818	-.000355	.0220665	.0062889	-.000805	.0826068	.0056300
#3	-.004807	-.001182	.0196399	.0021571	-.000964	.0825946	.0050819

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000738	.0001304	12.31581	.0011585	.0003762	.3669953	.2291791
Stddev	.0000013	.0000514	.12724	.0005090	.0000603	.0030067	.0048822
%RSD	1.800143	39.39213	1.033126	43.93557	16.02273	.8192763	2.130316
#1	.0000744	.0001894	12.43355	.0007085	.0003208	.3657749	.2262671
#2	.0000723	.0000956	12.33306	.0017109	.0004404	.3647907	.2348156
#3	.0000748	.0001062	12.18083	.0010561	.0003673	.3704204	.2264547

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225123	3.677374	.0070670	.0007089	1400.983	.0001986	1.781060
Stddev	.0002810	.052898	.0003455	.0003083	10.859	.0003881	.002912
%RSD	1.247960	1.438469	4.889128	43.48648	.7750826	195.4384	.1634901
#1	.0228093	3.719080	.0067309	.0010490	1413.494	-.000178	1.777968
#2	.0222507	3.695169	.0074212	.0004478	1393.998	.000597	1.783750
#3	.0224771	3.617874	.0070488	.0006300	1395.458	.000177	1.781463

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.621886	.0156480	.0015012	-.002688	.0018946	5.542499	2.631751
Stddev	.049611	.0007367	.0003268	.000740	.0001032	.015311	.016677
%RSD	.7491994	4.707747	21.76664	27.53220	5.449207	.2762556	.6336780
#1	6.569756	.0164959	.0011883	-.002010	.0020130	5.527271	2.630744
#2	6.668521	.0151659	.0014750	-.002577	.0018230	5.557893	2.615600
#3	6.627381	.0152820	.0018403	-.003477	.0018480	5.542334	2.648908

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02 Acquired: 11/8/2024 17:07:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.652063	.0048463	.0462957
Stddev	.068798	.0007370	.0003073
%RSD	1.217221	15.20827	.6637094
#1	5.634439	.0056967	.0464350
#2	5.593791	.0043934	.0465087
#3	5.727959	.0044488	.0459435

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2117.018	47041.27	12898.81	1487.845	3197.045
Stddev	25.913	124.36	70.37	.748	37.593
%RSD	1.224010	.2643659	.5455282	.0502579	1.175882
#1	2123.169	47162.64	12838.98	1487.627	3208.211
#2	2139.302	47047.06	12881.12	1488.678	3227.791
#3	2088.584	46914.12	12976.33	1487.230	3155.134

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02DUP Acquired: 11/8/2024 17:11:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004079	-.003028	.0208105	.0038137	-.001374	.0811633	.0051083
Stddev	.001145	.002151	.0007093	.0024859	.000955	.0043649	.0002580
%RSD	28.07194	71.02685	3.408488	65.18359	69.50566	5.377926	5.049772
#1	-.004589	-.005451	.0204055	.0015382	-.000491	.0834137	.0054048
#2	-.004880	-.001346	.0203964	.0034360	-.001244	.0839439	.0049847
#3	-.002767	-.002286	.0216295	.0064668	-.002388	.0761325	.0049354

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000544	-.000016	12.35287	.0012966	.0001500	.3676255	.2230071
Stddev	.0000763	.000070	.20325	.0002371	.0000599	.0008886	.0022596
%RSD	140.3064	440.6331	1.645387	18.28628	39.90639	.2417059	1.013241
#1	-.000033	.000058	12.52622	.0010238	.0002153	.3668159	.2235292
#2	.000104	-.000080	12.40321	.0014525	.0000978	.3674844	.2249600
#3	.000092	-.000026	12.12918	.0014136	.0001369	.3685761	.2205322

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225428	3.694798	.0066835	.0006444	1376.712	.0012566	1.757101
Stddev	.0006240	.062818	.0001016	.0002011	10.664	.0010293	.002476
%RSD	2.768225	1.700171	1.519836	31.20578	.7745747	81.91479	.1408963
#1	.0232116	3.746119	.0067157	.0004239	1381.797	.0003337	1.755133
#2	.0224406	3.713529	.0067650	.0008177	1364.457	.0010694	1.759880
#3	.0219761	3.624745	.0065697	.0006915	1383.881	.0023666	1.756288

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.524253	.0154701	.0014062	-.002823	.0022625	5.434336	2.615713
Stddev	.039561	.0003444	.0001924	.000564	.0002829	.014081	.003391
%RSD	.6063646	2.226012	13.68324	19.97605	12.50353	.2591062	.1296440
#1	6.507036	.0154380	.0012035	-.002245	.0021115	5.450437	2.611828
#2	6.496218	.0158294	.0014288	-.003372	.0020872	5.424327	2.617230
#3	6.569504	.0151429	.0015864	-.002854	.0025889	5.428244	2.618080

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02DUP Acquired: 11/8/2024 17:11:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.657057	.0059665	.0463987
Stddev	.007989	.0008635	.0007925
%RSD	.1412153	14.47216	1.707998
#1	5.659284	.0068114	.0471595
#2	5.648191	.0060025	.0464587
#3	5.663695	.0050856	.0455779

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2101.182	47660.18	12798.71	1501.550	3186.704
Stddev	11.397	34.68	189.05	8.284	18.376
%RSD	.5424147	.0727730	1.477069	.5516967	.5766560
#1	2113.163	47694.61	12639.30	1504.839	3206.596
#2	2099.907	47660.68	12749.25	1507.684	3183.155
#3	2090.476	47625.25	13007.56	1492.127	3170.361

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV04 Acquired: 11/8/2024 17:16:12 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.186089	5.234352	4.939561	5.364266	5.294479	9.686918	9.362035
Stddev	.016198	.124976	.004043	.015352	.017416	.672054	.484031
%RSD	.3123302	2.387606	.0818497	.2861942	.3289445	6.937752	5.170147
#1	5.195785	5.353457	4.937872	5.371252	5.302515	9.995703	9.527031
#2	5.167389	5.245364	4.936636	5.346663	5.274496	8.915965	8.817078
#3	5.195092	5.104234	4.944175	5.374883	5.306425	10.14908	9.741996

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2273958	2.418621	22.82639	.9272651	2.452493	1.308358	4.864045
Stddev	.0123815	.003473	1.45793	.0043585	.003063	.002996	.068689
%RSD	5.444916	.1436086	6.387038	.4700404	.1248740	.2289895	1.412184
#1	.2327509	2.418593	23.43036	.9319964	2.450818	1.307838	4.916558
#2	.2132381	2.415162	21.16353	.9234136	2.450633	1.305656	4.786310
#3	.2361985	2.422109	23.88528	.9263853	2.456028	1.311580	4.889267

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.314973	23.01487	2.455722	1.262120	24.52533	2.349612	2.606189
Stddev	.159792	1.42598	.003113	.009291	.60821	.155436	.022990
%RSD	6.902526	6.195917	.1267504	.7361411	2.479931	6.615412	.8821191
#1	2.384843	23.55759	2.454841	1.272700	25.13915	2.413439	2.626902
#2	2.132147	21.39721	2.453145	1.258367	23.92289	2.172422	2.610210
#3	2.427931	24.08980	2.459180	1.255292	24.51395	2.462974	2.581454

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.79355	4.558378	5.168066	4.853234	4.604310	5.048822	5.027304
Stddev	.49205	.243758	.010957	.009395	.318664	.032672	.021589
%RSD	1.907657	5.347483	.2120119	.1935738	6.920988	.6471201	.4294371
#1	26.18859	4.675739	5.175733	4.864078	4.745180	5.076585	5.009016
#2	25.24238	4.278139	5.155517	4.848054	4.239489	5.012819	5.021777
#3	25.94968	4.721256	5.172948	4.847570	4.828262	5.057063	5.051120

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV04 Acquired: 11/8/2024 17:16:12 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.877941	4.511993	4.773466
Stddev	.007851	.356417	.241791
%RSD	.1609401	7.899322	5.065304
#1	4.886919	4.683997	4.895383
#2	4.874531	4.102195	4.494988
#3	4.872371	4.749788	4.930028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2342.121	53887.49	13869.04	1650.885	3775.952
Stddev	7.224	471.77	760.06	20.290	8.262
%RSD	.3084365	.8754730	5.480290	1.229026	.2187974
#1	2344.168	53378.09	13469.76	1634.443	3781.898
#2	2348.101	53975.00	14745.53	1644.652	3779.439
#3	2334.095	54309.38	13391.82	1673.560	3766.518

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB04 Acquired: 11/8/2024 17:22:18 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009520	-.000534	-.000102	.0009992	-.000447	.0071684	-.004841
Stddev	.0003820	.001141	.000560	.0011259	.000640	.0031774	.000352
%RSD	40.12640	213.5638	547.7033	112.6837	143.2983	44.32489	7.275051
#1	.0008626	.000489	.000142	.0022992	-.001046	.0088987	-.005070
#2	.0006226	-.000327	.000295	.0003375	.000227	.0035014	-.005018
#3	.0013708	-.001765	-.000743	.0003608	-.000521	.0091052	-.004436

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000703	.0000391	.0003050	-.000132	.0001320	-.000294	-.002679
Stddev	.0000101	.0000614	.0026917	.000124	.0001574	.000376	.001811
%RSD	14.42671	156.9755	882.3874	93.71464	119.2767	127.5828	67.58408
#1	.0000811	.0000741	.0031926	-.000020	-.000035	-.000446	-.001404
#2	.0000611	-.000032	-.002135	-.000265	.000153	.000133	-.004752
#3	.0000686	.000075	-.000143	-.000111	.000278	-.000571	-.001882

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000008	.0061750	-.000228	.0004484	.1730651	-.000459	-.000083
Stddev	.000063	.0031377	.000261	.0000556	.0295699	.000890	.000186
%RSD	769.4900	50.81400	114.2573	12.40988	17.08599	194.0830	224.4279
#1	-.000081	.0047259	-.000326	.0005126	.1421537	.000388	-.000272
#2	.000024	.0097754	-.000425	.0004174	.1759611	-.001387	-.000076
#3	.000032	.0040236	.000067	.0004151	.2010804	-.000377	.000100

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0406792	.0006159	.0003363	.0003528	.0008104	-.003731	-.003346
Stddev	.0146947	.0005640	.0000714	.0008686	.0002740	.000997	.000696
%RSD	36.12330	91.58186	21.23120	246.1994	33.80650	26.72739	20.80534
#1	.0242867	.0005430	.0004090	.0012949	.0008749	-.004159	-.002807
#2	.0526698	.0000918	.0002663	.0001797	.0005099	-.002591	-.003098
#3	.0450810	.0012128	.0003337	-.000416	.0010463	-.004443	-.004132

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB04 Acquired: 11/8/2024 17:22:18 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003298	-.001301	.0000961
Stddev	.001384	.000925	.0000155
%RSD	41.95559	71.08377	16.14639
#1	-.004290	-.001122	.0001043
#2	-.003887	-.000479	.0000782
#3	-.001717	-.002303	.0001058

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2582.654	59723.84	13542.39	1861.746	4436.416
Stddev	8.512	930.46	158.74	22.404	9.678
%RSD	.3295993	1.557939	1.172183	1.203397	.2181601
#1	2592.085	59938.13	13391.94	1873.995	4446.318
#2	2575.541	60528.47	13708.29	1875.355	4426.978
#3	2580.335	58704.93	13526.96	1835.888	4435.952

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02LX5 Acquired: 11/8/2024 17:26:36 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002096	-.000482	.0036434	.0019304	-.001502	.0207051	-.002423
Stddev	.000140	.001693	.0008229	.0004814	.001380	.0005789	.000745
%RSD	6.673855	350.9580	22.58471	24.93562	91.93295	2.796062	30.76396
#1	-.002092	-.001397	.0032943	.0024384	-.003077	.0209548	-.003037
#2	-.002237	-.001521	.0045833	.0018717	-.000502	.0211174	-.001593
#3	-.001958	.001471	.0030527	.0014811	-.000926	.0200433	-.002638

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000579	.0000035	2.498208	.0001625	.0001316	.0779124	.0408540
Stddev	.0000245	.0000575	.191711	.0003271	.0001788	.0008294	.0033467
%RSD	42.30074	1643.957	7.673954	201.3386	135.8757	1.064543	8.191917
#1	.0000301	-.000029	2.655179	.0003272	.0000799	.0769811	.0409406
#2	.0000761	.000070	2.284544	-.000214	.0003305	.0781842	.0374649
#3	.0000676	-.000030	2.554903	.000374	-.000016	.0785717	.0441566

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043480	.7565743	.0013166	.0005084	261.3390	-.000006	.3371633
Stddev	.0003998	.0521159	.0003044	.0002207	4.7883	.000316	.0027680
%RSD	9.195153	6.888407	23.11885	43.41217	1.832213	5345.677	.8209675
#1	.0047591	.7939761	.0015225	.0002705	266.8674	-.000309	.3403454
#2	.0039605	.6970457	.0014603	.0005482	258.6467	-.000031	.3353128
#3	.0043244	.7787010	.0009669	.0007065	258.5028	.000322	.3358316

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.209529	.0034991	.0004004	-.000968	.0007120	1.004800	.4870695
Stddev	.025095	.0006530	.0002485	.000641	.0002562	.019115	.0048988
%RSD	2.074778	18.66279	62.05584	66.18091	35.98200	1.902351	1.005771
#1	1.203366	.0040161	.0005927	-.001648	.0005829	1.017221	.4814178
#2	1.188090	.0027652	.0001198	-.000879	.0010070	.982789	.4896891
#3	1.237132	.0037160	.0004887	-.000377	.0005460	1.014390	.4901015

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02LX5 Acquired: 11/8/2024 17:26:36 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.054999	-.000071	.0091501
Stddev	.009291	.001441	.0007639
%RSD	.8806952	2042.914	8.348651
#1	1.048182	.001251	.0098208
#2	1.051233	.000144	.0083186
#3	1.065582	-.001607	.0093110

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2352.515	52929.18	13588.38	1682.001	3709.535
Stddev	26.440	335.46	855.08	14.765	35.645
%RSD	1.123889	.6337883	6.292711	.8777952	.9609055
#1	2382.554	52558.64	12858.20	1664.956	3750.454
#2	2342.219	53016.68	14529.04	1690.220	3692.929
#3	2332.773	53212.21	13377.90	1690.828	3685.224

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02MS Acquired: 11/8/2024 17:31:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9538840	1.974578	1.029422	2.349656	.9183901	2.283371	.2081606
Stddev	.0023703	.007628	.003032	.003763	.0009246	.062493	.0047377
%RSD	.2484938	.3863123	.2945570	.1601521	.1006741	2.736877	2.276009
#1	.9514413	1.982999	1.032900	2.353980	.9190357	2.218383	.2034457
#2	.9561747	1.968131	1.028035	2.347125	.9173309	2.288702	.2081152
#3	.9540359	1.972604	1.027331	2.347863	.9188036	2.343027	.2129209

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2044794	.2096473	13.11358	.3817968	.2121916	.6632591	3.476033
Stddev	.0041705	.0011304	.27506	.0018326	.0011540	.0018127	.013363
%RSD	2.039567	.5391942	2.097499	.4800051	.5438524	.2733050	.3844349
#1	.1999816	.2109506	12.84047	.3798186	.2135223	.6653515	3.473604
#2	.2052384	.2090563	13.10973	.3834368	.2115870	.6621659	3.464051
#3	.2082184	.2089348	13.39055	.3821349	.2114655	.6622598	3.490444

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2229931	5.538376	.5262173	.0905558	1289.797	.3126291	1.928402
Stddev	.0050844	.126876	.0029345	.0002463	8.276	.0076503	.007255
%RSD	2.280079	2.290858	.5576625	.2720092	.6416213	2.447090	.3762035
#1	.2189377	5.412821	.5295652	.0903437	1281.326	.3060311	1.921872
#2	.2213443	5.535774	.5240906	.0904977	1290.202	.3108411	1.936211
#3	.2286973	5.666533	.5249961	.0908259	1297.863	.3210150	1.927124

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.09959	.2900239	.4300939	.6657359	.2030188	5.999958	9.795188
Stddev	.15886	.0063808	.0008420	.0029209	.0049285	.032106	.040020
%RSD	.8777257	2.200085	.1957755	.4387514	2.427601	.5351114	.4085721
#1	17.95088	.2834833	.4307852	.6690523	.1977258	5.965425	9.838566
#2	18.08094	.2903565	.4303404	.6635461	.2038546	6.005546	9.787298
#3	18.26696	.2962319	.4291562	.6646091	.2074759	6.028904	9.759700

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02MS Acquired: 11/8/2024 17:31:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.555585	.2028656	.2553155
Stddev	.028327	.0046177	.0066963
%RSD	.5098757	2.276228	2.622754
#1	5.586265	.1983172	.2488641
#2	5.530424	.2027299	.2548502
#3	5.550065	.2075496	.2622324

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2117.635	49202.69	12786.43	1527.915	3165.542
Stddev	.613	310.28	307.82	9.722	6.494
%RSD	.0289296	.6306160	2.407405	.6362595	.2051377
#1	2118.280	49536.28	13098.08	1538.798	3158.084
#2	2117.061	49149.06	12778.63	1524.855	3169.943
#3	2117.563	48922.71	12482.59	1520.092	3168.599

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02MSD Acquired: 11/8/2024 17:35:08 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9626313	2.013867	1.040490	2.384561	.9305767	2.244672	.2041950
Stddev	.0063616	.018724	.008074	.018540	.0080001	.024631	.0024712
%RSD	.6608527	.9297570	.7759824	.7774850	.8596959	1.097320	1.210195
#1	.9566140	1.992872	1.031255	2.364500	.9220003	2.216303	.2013432
#2	.9619911	2.028837	1.046215	2.401063	.9378375	2.257101	.2055373
#3	.9692887	2.019892	1.044000	2.388120	.9318922	2.260612	.2057045

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2016041	.2112913	12.79603	.3881725	.2138788	.6710554	3.558943
Stddev	.0023853	.0010875	.15356	.0029259	.0014688	.0048019	.023418
%RSD	1.183144	.5146835	1.200054	.7537604	.6867436	.7155702	.6580172
#1	.1992156	.2100469	12.62241	.3847940	.2121865	.6655711	3.533182
#2	.2016106	.2120588	12.85167	.3898854	.2146268	.6745044	3.578945
#3	.2039861	.2117684	12.91401	.3898379	.2148230	.6730908	3.564700

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2166917	5.411708	.5305900	.0922331	1335.363	.3063013	1.961735
Stddev	.0025607	.055093	.0029296	.0009329	10.577	.0042736	.015617
%RSD	1.181722	1.018031	.5521340	1.011508	.7920836	1.395221	.7960802
#1	.2137986	5.348483	.5272392	.0911785	1324.063	.3014870	1.944081
#2	.2176093	5.437217	.5326673	.0929509	1345.027	.3077701	1.973748
#3	.2186671	5.449423	.5318635	.0925698	1337.000	.3096469	1.967375

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.73596	.2861615	.4354973	.6736197	.1990362	6.186909	9.889961
Stddev	.17306	.0035183	.0030656	.0031803	.0020971	.082884	.065010
%RSD	.9236998	1.229464	.7039289	.4721251	1.053626	1.339668	.6573348
#1	18.57193	.2826957	.4319592	.6700283	.1966627	6.097786	9.843849
#2	18.91683	.2860589	.4373639	.6747511	.2006387	6.261679	9.964316
#3	18.71914	.2897299	.4371687	.6760795	.1998071	6.201263	9.861719

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02MSD Acquired: 11/8/2024 17:35:08 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.591016	.1969080	.2503168
Stddev	.042615	.0012107	.0029292
%RSD	.7622113	.6148673	1.170198
#1	5.547743	.1955173	.2469383
#2	5.632942	.1974798	.2521456
#3	5.592363	.1977270	.2518666

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2088.601	47565.46	13006.79	1500.875	3127.108
Stddev	12.762	457.73	165.44	16.010	16.588
%RSD	.6110184	.9623070	1.271957	1.066706	.5304522
#1	2103.207	48084.05	13192.29	1517.169	3145.358
#2	2079.604	47217.78	12953.57	1485.166	3112.948
#3	2082.992	47394.56	12874.50	1500.289	3123.017

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02A Acquired: 11/8/2024 17:39:15 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9805498	1.976014	1.036485	2.436015	.9470492	2.347324	.2150661
Stddev	.0026064	.019657	.002677	.007305	.0055575	.002232	.0010814
%RSD	.2658063	.9947975	.2582759	.2998842	.5868188	.0951032	.5028092
#1	.9797639	1.993970	1.033475	2.433652	.9437173	2.349851	.2163018
#2	.9784268	1.955012	1.037379	2.430183	.9439654	2.345619	.2146033
#3	.9834587	1.979061	1.038600	2.444209	.9534648	2.346503	.2142931

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2055846	.2114270	13.30629	.3848648	.2140161	.6784661	3.594693
Stddev	.0010580	.0006259	.08857	.0024222	.0005860	.0001251	.028908
%RSD	.5146315	.2960453	.6656058	.6293498	.2737967	.0184324	.8041980
#1	.2065805	.2107471	13.38772	.3866180	.2133797	.6783313	3.616950
#2	.2044738	.2119793	13.31917	.3821010	.2145332	.6784884	3.605108
#3	.2056995	.2115546	13.21199	.3858753	.2141356	.6785784	3.562019

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2267309	5.618924	.5314706	.0920867	1351.959	.3213612	1.985471
Stddev	.0022671	.032941	.0015001	.0002348	9.323	.0012966	.004831
%RSD	.9999219	.5862458	.2822510	.2549686	.6896138	.4034543	.2433389
#1	.2292370	5.654918	.5297591	.0923524	1350.415	.3225523	1.990912
#2	.2261334	5.611577	.5320955	.0920007	1343.504	.3215512	1.983821
#3	.2248224	5.590278	.5325572	.0919070	1361.958	.3199802	1.981681

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.07602	.2935342	.4401834	.6687460	.2085938	6.238704	9.784636
Stddev	.02504	.0025386	.0012005	.0015312	.0013228	.010691	.032651
%RSD	.1312432	.8648558	.2727188	.2289679	.6341370	.1713648	.3336938
#1	19.07366	.2964495	.4401834	.6669907	.2100082	6.232511	9.748333
#2	19.10215	.2918107	.4389829	.6698079	.2083860	6.251049	9.811599
#3	19.05225	.2923424	.4413838	.6694392	.2073873	6.232552	9.793975

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4762-02A Acquired: 11/8/2024 17:39:15 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.581910	.2089537	.2632508
Stddev	.021645	.0010232	.0012554
%RSD	.3877693	.4896963	.4768697
#1	5.557628	.2100530	.2645516
#2	5.599177	.2087791	.2631543
#3	5.588926	.2080290	.2620465

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2027.586	47328.21	12507.81	1447.952	3059.330
Stddev	12.042	27.21	58.16	8.485	22.524
%RSD	.5939115	.0574933	.4650110	.5859840	.7362321
#1	2038.225	47301.14	12441.77	1452.927	3084.514
#2	2030.021	47327.94	12530.26	1438.155	3052.364
#3	2014.513	47355.56	12551.40	1452.774	3041.112

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164782BL Acquired: 11/8/2024 17:43:22 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000293	.0000344	-.000770	.0020138	-.001144	.0035832	-.005515
Stddev	.000389	.0009190	.000782	.0004966	.000755	.0012018	.000181
%RSD	132.7142	2672.437	101.5502	24.66251	65.97002	33.53954	3.281216
#1	-.000199	.0001091	-.001670	.0025873	-.001217	.0030494	-.005664
#2	-.000720	.0009138	-.000390	.0017261	-.001859	.0049594	-.005568
#3	.000041	-.000920	-.000251	.0017280	-.000355	.0027407	-.005314

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000692	-.000064	-.002058	.0001507	-.000110	.0000805	-.002152
Stddev	.0000620	.000014	.001119	.0003181	.000079	.0000740	.003220
%RSD	89.66446	22.42066	54.37935	211.1057	71.90608	91.90900	149.6248
#1	-.000002	-.000048	-.002111	.0002439	-.000137	.0000977	.001545
#2	.000104	-.000066	-.003150	.0004117	-.000021	-.000001	-.004338
#3	.000106	-.000077	-.000914	-.000204	-.000172	.000144	-.003663

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000210	.0000219	-.000166	.0006489	.5343919	.0006749	-.000135
Stddev	.0000376	.0062091	.000116	.0001544	.0199212	.0012177	.000206
%RSD	179.0566	28322.79	69.87966	23.79236	3.727828	180.4357	152.0789
#1	.0000239	.0019171	-.000293	.0007731	.5122042	.0010364	-.000356
#2	-.000018	-.006914	-.000067	.0006976	.5507426	-.000683	-.000101
#3	.000057	.005063	-.000137	.0004761	.5402289	.001671	.000051

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0856704	-.001275	.0000253	-.000403	.0001733	-.007012	-.002076
Stddev	.0308548	.000276	.0001444	.000642	.0002585	.002177	.001858
%RSD	36.01571	21.60922	570.3225	159.2407	149.1140	31.04813	89.49512
#1	.0622568	-.001573	.0001561	-.000755	-.000123	-.008511	-.003162
#2	.0741207	-.001030	.0000496	-.000791	.000290	-.008010	.000069
#3	.1206339	-.001221	-.000130	.000338	.000353	-.004515	-.003134

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164782BL Acquired: 11/8/2024 17:43:22 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001705	-.001503	.0000018
Stddev	.0031005	.001484	.0000186
%RSD	1818.928	98.74284	1023.962
#1	.0037461	-.002496	.0000198
#2	-.001774	.000203	-.000017
#3	-.001460	-.002216	.000003

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2497.807	57638.76	13855.82	1773.491	4308.524
Stddev	9.377	640.41	37.90	14.321	13.558
%RSD	.3753938	1.111067	.2735061	.8075125	.3146866
#1	2508.502	58372.63	13885.04	1789.795	4324.071
#2	2490.999	57350.50	13813.00	1767.737	4302.342
#3	2493.920	57193.14	13869.41	1762.942	4299.158

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164782BS Acquired: 11/8/2024 17:47:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7905786	2.023468	.9481535	1.986202	.7850258	1.976063
Stddev	.0012337	.028986	.0045276	.007594	.0033384	.034783
%RSD	.1560446	1.432504	.4775176	.3823377	.4252569	1.760214
#1	.7893086	2.001489	.9430574	1.983817	.7819155	1.935916
#2	.7906549	2.012596	.9496911	1.980087	.7846089	1.995119
#3	.7917724	2.056318	.9517121	1.994702	.7885530	1.997153

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1852959	.1913961	.1834911	.9720159	.3662842	.1892671
Stddev	.0029438	.0028192	.0008633	.0168647	.0015175	.0009419
%RSD	1.588707	1.472969	.4705039	1.735028	.4143008	.4976600
#1	.1818979	.1882248	.1828222	.9530178	.3646006	.1885643
#2	.1869175	.1923451	.1831853	.9778105	.3675466	.1888997
#3	.1870724	.1936183	.1844657	.9852195	.3667054	.1903373

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3086600	2.770248	.1889072	1.864583	.4737846	.0739982
Stddev	.0009120	.018561	.0031371	.046370	.0018945	.0001580
%RSD	.2954555	.6700214	1.660653	2.486899	.3998733	.2135748
#1	.3094892	2.753058	.1853421	1.814573	.4722069	.0739061
#2	.3076833	2.767758	.1901340	1.873021	.4732609	.0739078
#3	.3088075	2.789929	.1912456	1.906155	.4758859	.0741807

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.850621	.2902605	.2075151	9.511518	.2793236	.4007832
Stddev	.030577	.0044618	.0007457	.091052	.0054001	.0015205
%RSD	1.072638	1.537175	.3593473	.9572784	1.933271	.3793751
#1	2.815468	.2851939	.2069337	9.409724	.2733430	.3995795
#2	2.871051	.2919840	.2083559	9.585195	.2807857	.4002782
#3	2.865345	.2936034	.2072557	9.539635	.2838421	.4024919

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164782BS Acquired: 11/8/2024 17:47:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6475357	.1885572	F .6768954	5.464582	F -.009662	.1763286
Stddev	.0041532	.0035511	.0047514	.037182	.002735	.0038921
%RSD	.6413914	1.883311	.7019428	.6804266	28.30099	2.207297
#1	.6445607	.1845758	.6733902	5.430194	-.012500	.1718742
#2	.6457657	.1896983	.6749927	5.459513	-.007044	.1780393
#3	.6522807	.1913975	.6823033	5.504039	-.009443	.1790724

Elem	Sr4077
Units	ppm
Avg	.1972387
Stddev	.0031643
%RSD	1.604306
#1	.1935859
#2	.1989891
#3	.1991411

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2549.747	58313.49	13483.68	1817.041	4283.928
Stddev	4.238	80.62	158.50	6.119	7.713
%RSD	.1662076	.1382548	1.175459	.3367780	.1800410
#1	2546.734	58403.64	13663.49	1810.993	4287.965
#2	2554.593	58248.30	13423.30	1823.230	4288.785
#3	2547.915	58288.53	13364.25	1816.901	4275.035

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4732-01 Acquired: 11/8/2024 17:51:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024351	-.002845	.1263682	-.017376	5.411974	25.01441
Stddev	.0012761	.002444	.0021794	.002135	.020503	.20885
%RSD	52.40504	85.88255	1.724662	12.28935	.3788385	.8349342
#1	.0035900	-.000798	.1258670	-.015098	5.406796	24.97639
#2	.0026502	-.002187	.1244831	-.019333	5.394557	24.82718
#3	.0010651	-.005551	.1287546	-.017697	5.434570	25.23966

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2579692	.0019685	.0077400	39.17279	.0891957	.0245212
Stddev	.0022674	.0000180	.0000590	.35538	.0012258	.0001778
%RSD	.8789554	.9139214	.7619773	.9072118	1.374308	.7248971
#1	.2565689	.0019480	.0077479	38.94586	.0878719	.0243619
#2	.2567534	.0019815	.0077946	38.99016	.0894235	.0244889
#3	.2605852	.0019761	.0076774	39.58235	.0902916	.0247129

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1146886	75.58049	1.973327	8.714512	.0530574	.0010751
Stddev	.0008201	.53980	.020737	.068859	.0003025	.0000528
%RSD	.7150424	.7142051	1.050859	.7901637	.5701890	4.913638
#1	.1140453	75.13965	1.960673	8.687004	.0528327	.0010728
#2	.1144084	75.41930	1.962048	8.663659	.0534014	.0011290
#3	.1156120	76.18252	1.997258	8.792873	.0529380	.0010234

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.37156	.0452990	2.012215	6.826750	.0719928	.0134507
Stddev	.07749	.0008883	.009632	.062789	.0007434	.0002845
%RSD	.5041436	1.960913	.4786877	.9197525	1.032604	2.115243
#1	15.34240	.0462494	2.001497	6.833262	.0713948	.0136643
#2	15.31287	.0451579	2.015000	6.760958	.0717585	.0131278
#3	15.45940	.0444897	2.020147	6.886029	.0728251	.0135602

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4732-01 Acquired: 11/8/2024 17:51:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0146499	.7455180	F 21.62231	.9758212	2.759106	.0295609
Stddev	.0013036	.0061744	.11886	.0066516	.014222	.0003603
%RSD	8.898463	.8282002	.5497073	.6816357	.5154498	1.218766
#1	.0142893	.7454710	21.61790	.9731604	2.743305	.0291947
#2	.0135646	.7393672	21.50572	.9709119	2.763133	.0295732
#3	.0160959	.7517157	21.74331	.9833912	2.770880	.0299149

Elem	Sr4077
Units	ppm
Avg	.1246982
Stddev	.0012913
%RSD	1.035561
#1	.1245421
#2	.1234920
#3	.1260605

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2558.895	58815.70	14295.50	1835.253	3998.204
Stddev	5.972	98.61	74.24	11.245	1.715
%RSD	.2333916	.1676664	.5193044	.6127130	.0428996
#1	2552.391	58898.43	14335.06	1822.872	3996.490
#2	2564.131	58842.11	14341.59	1844.832	3999.921
#3	2560.165	58706.58	14209.86	1838.054	3998.200

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4737-01 Acquired: 11/8/2024 17:55:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0360717	-.012061	.2472417	-.071906	-.000770	150.9113
Stddev	.0024345	.004487	.0017323	.002819	.000272	1.1215
%RSD	6.749080	37.20210	.7006388	3.921062	35.31437	.7431738
#1	.0386721	-.012436	.2472552	-.073090	-.001046	150.0216
#2	.0338466	-.016348	.2455027	-.073941	-.000502	150.5412
#3	.0356964	-.007398	.2489672	-.068688	-.000762	152.1711

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.602349	.0129567	.0520465	37.09058	.2615473	.1934086
Stddev	.010666	.0000697	.0004463	.33439	.0016208	.0010145
%RSD	.6656311	.5381909	.8575637	.9015605	.6196854	.5245507
#1	1.590036	.0128762	.0525306	36.70615	.2627892	.1945688
#2	1.608310	.0129947	.0516512	37.25145	.2597139	.1926881
#3	1.608703	.0129992	.0519577	37.31412	.2621388	.1929689

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3129741	296.9933	4.809183	69.93767	.3667882	-.000451
Stddev	.0021347	.7110	.046340	.72336	.0013694	.000163
%RSD	.6820723	.2394003	.9635642	1.034288	.3733571	36.06717
#1	.3154232	296.6729	4.755987	69.10308	.3683023	-.000625
#2	.3115074	296.4988	4.830782	70.32608	.3664259	-.000425
#3	.3119918	297.8081	4.840780	70.38386	.3656363	-.000303

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.491694	.3983568	.7387453	28.20206	.2212591	.0018381
Stddev	.004821	.0032188	.0035401	.06627	.0013079	.0001127
%RSD	.0877951	.8080154	.4792032	.2349806	.5911087	6.129304
#1	5.492962	.3952136	.7422652	28.22016	.2219661	.0017563
#2	5.495754	.4016462	.7387852	28.25741	.2197499	.0019666
#3	5.486365	.3982108	.7351853	28.12863	.2220613	.0017914

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4737-01 Acquired: 11/8/2024 17:55:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096830	3.822927	F 13.57428	9.073128	.9874939	.3491896
Stddev	.0003524	.031161	.17445	.032336	.0105022	.0018862
%RSD	3.639234	.8151046	1.285117	.3563878	1.063515	.5401749
#1	.0093256	3.786982	13.39436	9.110463	.9977825	.3472314
#2	.0100302	3.839497	13.74268	9.054830	.9879086	.3493429
#3	.0096931	3.842303	13.58581	9.054090	.9767905	.3509945

Elem	Sr4077
Units	ppm
Avg	-.086704
Stddev	.001175
%RSD	1.354950
#1	-.087859
#2	-.085511
#3	-.086742

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3130.112	71459.51	17598.89	2223.790	3669.789
Stddev	16.903	260.03	119.27	11.951	19.158
%RSD	.5400234	.3638869	.6777113	.5374211	.5220567
#1	3113.174	71375.97	17735.60	2228.931	3648.771
#2	3146.981	71251.52	17516.09	2210.129	3686.274
#3	3130.182	71751.05	17544.99	2232.311	3674.323

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4738-01 Acquired: 11/8/2024 18:00:14 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007450	-.003798	.0218035	.0106750	.0007148	4.595238	.0240254
Stddev	.001661	.000738	.0004616	.0010220	.0012959	.020788	.0004179
%RSD	22.29849	19.43786	2.116907	9.573816	181.2939	.4523778	1.739593
#1	-.009279	-.004209	.0221326	.0102533	.0018027	4.571918	.0236333
#2	-.007038	-.004238	.0212759	.0099313	.0010606	4.611824	.0244651
#3	-.006034	-.002945	.0220021	.0118403	-.000719	4.601973	.0239777

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002289	.0005523	3.514442	.0107159	.0142906	.0163629	5.365842
Stddev	.0000334	.0000354	.011778	.0001481	.0001724	.0002321	.040827
%RSD	14.58882	6.417185	.3351455	1.382209	1.206707	1.418222	.7608660
#1	.0002643	.0005114	3.501061	.0108497	.0141022	.0161074	5.339100
#2	.0001980	.0005703	3.523242	.0107411	.0143292	.0164208	5.412836
#3	.0002244	.0005751	3.519023	.0105567	.0144405	.0165605	5.345591

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2347760	1.632215	.0067676	.0007529	567.3043	.0086470	.0630790
Stddev	.0012885	.021849	.0000835	.0000806	5.2500	.0003270	.0001921
%RSD	.5488113	1.338598	1.233962	10.69788	.9254378	3.781096	.3044540
#1	.2332889	1.609439	.0067031	.0006683	569.8502	.0088959	.0628573
#2	.2354813	1.634207	.0068620	.0008286	570.7960	.0087683	.0631896
#3	.2355579	1.653000	.0067377	.0007619	561.2667	.0082767	.0631902

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.420303	.0058727	.0031721	.0100689	.0882627	4.378120	.2873026
Stddev	.015090	.0002023	.0001278	.0003603	.0000616	.144395	.0018278
%RSD	1.062471	3.444513	4.028881	3.578763	.0697449	3.298111	.6361872
#1	1.437727	.0056443	.0030258	.0097948	.0883221	4.542979	.2852028
#2	1.411501	.0060294	.0032286	.0099347	.0881992	4.317282	.2885368
#3	1.411680	.0059444	.0032620	.0104770	.0882669	4.274099	.2881682

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4738-01 Acquired: 11/8/2024 18:00:14 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.624702	.0013466	.0112234
Stddev	.013610	.0009005	.0000243
%RSD	.2942988	66.87591	.2163457
#1	4.632452	.0004645	.0112513
#2	4.608986	.0022646	.0112115
#3	4.632667	.0013107	.0112073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2197.452	51881.13	13269.41	1615.968	3412.833
Stddev	6.887	302.09	40.14	15.563	5.192
%RSD	.3134140	.5822648	.3024636	.9630572	.1521384
#1	2203.618	51762.05	13239.90	1610.604	3416.914
#2	2198.718	51656.73	13253.21	1603.797	3414.597
#3	2190.019	52224.61	13315.11	1633.503	3406.989

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV05 Acquired: 11/8/2024 18:04:37 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.107424	5.276257	4.940548	5.284687	5.225004	9.884493	9.293933
Stddev	.112062	.113270	.125224	.111577	.120751	.076412	.089861
%RSD	2.194104	2.146791	2.534626	2.111328	2.311018	.7730516	.9668815
#1	4.996856	5.147651	4.809545	5.165274	5.099226	9.798288	9.293496
#2	5.104494	5.319934	4.953043	5.302503	5.235782	9.943885	9.204291
#3	5.220923	5.361187	5.059057	5.386284	5.340005	9.911305	9.384012

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2340836	2.429686	23.46705	.9064138	2.459302	1.288498	4.745965
Stddev	.0015683	.061137	.10813	.0075888	.063166	.030261	.004475
%RSD	.6699760	2.516258	.4607696	.8372337	2.568456	2.348553	.0942862
#1	.2322800	2.365535	23.34300	.8976852	2.393315	1.257533	4.751089
#2	.2351259	2.436242	23.51676	.9101085	2.465386	1.289959	4.742826
#3	.2348451	2.487281	23.54138	.9114477	2.519207	1.318002	4.743980

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.276159	23.65031	2.459469	1.233966	23.36931	2.408472	2.544856
Stddev	.009521	.17022	.061793	.002273	.10161	.018978	.006493
%RSD	.4182848	.7197173	2.512443	.1841650	.4347979	.7879856	.2551265
#1	2.266574	23.45397	2.395365	1.231920	23.47257	2.386981	2.548181
#2	2.276287	23.74055	2.464385	1.236412	23.26944	2.415506	2.549012
#3	2.285614	23.75640	2.518657	1.233567	23.36592	2.422930	2.537374

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.84737	4.671789	5.153643	4.874601	4.692625	4.912559	4.997591
Stddev	.06679	.029790	.115756	.122173	.022798	.047096	.137232
%RSD	.2687914	.6376479	2.246099	2.506308	.4858321	.9586870	2.745967
#1	24.77239	4.637580	5.032728	4.748177	4.666642	4.864224	4.855144
#2	24.90047	4.692016	5.164766	4.883601	4.701956	4.915143	5.008695
#3	24.86926	4.685770	5.263437	4.992024	4.709278	4.958310	5.128933

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV05 Acquired: 11/8/2024 18:04:37 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.839001	4.546148	4.840295
Stddev	.110997	.016719	.017526
%RSD	2.293808	.3677536	.3620903
#1	4.729818	4.534336	4.820366
#2	4.835456	4.538830	4.853309
#3	4.951728	4.565278	4.847211

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2400.950	55593.81	13545.87	1706.230	3844.845
Stddev	45.590	61.56	39.74	17.316	80.694
%RSD	1.898826	.1107330	.2933421	1.014858	2.098762
#1	2449.234	55535.18	13591.07	1686.805	3931.231
#2	2394.974	55588.32	13516.46	1711.841	3831.893
#3	2358.644	55657.93	13530.07	1720.045	3771.410

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB05 Acquired: 11/8/2024 18:08:47 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000643	.0014435	-.000123	.0009760	-.000587	.0049438	-.004363
Stddev	.002587	.0007928	.000459	.0007238	.000869	.0034932	.000193
%RSD	402.4904	54.91898	374.2746	74.16516	148.1500	70.65816	4.424570
#1	-.002633	.0018553	.000006	.0014207	-.001479	.0048848	-.004152
#2	.002281	.0019456	-.000632	.0013665	.000258	.0084662	-.004531
#3	-.001576	.0005296	.000258	.0001408	-.000539	.0014805	-.004407

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000137	-.000045	.0036884	-.000031	.0000090	-.000377	.0041545
Stddev	.0000738	.000008	.0075153	.000357	.0000309	.000074	.0036681
%RSD	538.8979	17.86335	203.7530	1141.254	342.6088	19.64642	88.29060
#1	-.000062	-.000051	-.002718	-.000442	.0000176	-.000323	.0062800
#2	.000017	-.000036	.001822	.000204	-.000025	-.000345	-.000081
#3	.000086	-.000049	.011961	.000145	.000035	-.000461	.006265

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001487	.0039391	.0001894	.0007135	.1038626	-.000444	.0000249
Stddev	.0000599	.0117833	.0001009	.0002277	.0160003	.000709	.0000642
%RSD	40.25983	299.1392	53.28290	31.91383	15.40521	159.8008	257.8813
#1	.0000955	-.003967	.0001010	.0009085	.0881995	.000289	-.000035
#2	.0002136	.017482	.0001679	.0004632	.1032082	-.001127	.000093
#3	.0001371	-.001698	.0002993	.0007688	.1201799	-.000495	.000017

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0312293	.0019083	.0003317	.0001392	.0007505	.0009337	-.001837
Stddev	.0158028	.0001604	.0001149	.0006547	.0003475	.0033420	.000546
%RSD	50.60242	8.404287	34.64259	470.2516	46.30539	357.9340	29.74221
#1	.0151825	.0020831	.0003877	-.000589	.0010777	.0044408	-.002091
#2	.0317294	.0018739	.0001996	.000326	.0007881	.0005742	-.002209
#3	.0467762	.0017679	.0004080	.000680	.0003857	-.002214	-.001210

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB05 Acquired: 11/8/2024 18:08:47 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002567	-.001559	.0001420
Stddev	.002300	.001348	.0000343
%RSD	89.59150	86.45798	24.13464
#1	-.002638	-.000458	.0001308
#2	-.000232	-.001156	.0001804
#3	-.004830	-.003062	.0001147

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2577.670	58268.36	13520.71	1829.301	4448.610
Stddev	10.594	130.06	36.60	16.405	14.125
%RSD	.4109945	.2232028	.2706894	.8967686	.3175138
#1	2589.211	58181.34	13497.16	1823.708	4464.244
#2	2575.413	58205.87	13502.10	1816.424	4444.818
#3	2568.387	58417.87	13562.87	1847.770	4436.768

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-01 Acquired: 11/8/2024 18:13:08 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0933444	-.017106	.3327695	-.087493	-.000058	233.6389
Stddev	.0011468	.001318	.0049239	.005253	.002961	.3730
%RSD	1.228513	7.704273	1.479663	6.003908	5087.519	.1596431
#1	.0946642	-.017503	.3379370	-.089789	-.002523	233.3723
#2	.0927766	-.018180	.3322393	-.091208	-.000877	234.0652
#3	.0925923	-.015635	.3281322	-.081483	.003226	233.4794

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8678221	.0147784	.0531271	19.51290	.3236866	.1744499
Stddev	.0007192	.0001156	.0016266	.05077	.0014551	.0034725
%RSD	.0828755	.7823097	3.061771	.2601822	.4495339	1.990523
#1	.8682614	.0146802	.0547420	19.46280	.3251383	.1780489
#2	.8682128	.0147492	.0531501	19.56432	.3236933	.1741814
#3	.8669921	.0149059	.0514890	19.51158	.3222281	.1711195

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5799082	371.5889	6.120109	68.26872	.3135773	.0003627
Stddev	.0128671	.8364	.003654	.15509	.0061736	.0001312
%RSD	2.218808	.2250918	.0597032	.2271759	1.968757	36.18108
#1	.5926578	371.8199	6.116957	68.09403	.3198726	.0002783
#2	.5801400	372.2855	6.124114	68.39021	.3133263	.0002959
#3	.5669268	370.6612	6.119256	68.32191	.3075331	.0005139

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.45386	.5493850	.9023151	25.11026	.2413318	.0038498
Stddev	.11322	.0019561	.0097702	.06849	.0008827	.0001014
%RSD	.6486549	.3560516	1.082797	.2727438	.3657519	2.634884
#1	17.50746	.5493369	.9036914	25.14255	.2418095	.0039640
#2	17.53033	.5513647	.9113242	25.15663	.2418727	.0037702
#3	17.32380	.5474534	.8919297	25.03160	.2403133	.0038152

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-01 Acquired: 11/8/2024 18:13:08 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0565223	5.581447	F 19.18239	6.979233	3.427947	.2965340
Stddev	.0017916	.001249	.07684	.124538	.059856	.0005551
%RSD	3.169737	.0223792	.4005839	1.784412	1.746132	.1871860
#1	.0585363	5.580173	19.14793	7.107115	3.486758	.2958955
#2	.0559250	5.581500	19.27043	6.972252	3.429985	.2969015
#3	.0551057	5.582669	19.12881	6.858332	3.367097	.2968051

Elem	Sr4077
Units	ppm
Avg	-.151096
Stddev	.000865
%RSD	.5722511
#1	-.151264
#2	-.151863
#3	-.150159

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2681.543	61111.43	15303.15	1918.546	3612.374
Stddev	35.254	311.73	37.01	21.554	58.715
%RSD	1.314687	.5101081	.2418316	1.123455	1.625377
#1	2646.845	60899.63	15260.45	1910.155	3554.872
#2	2680.455	60965.27	15325.96	1902.450	3610.018
#3	2717.328	61469.39	15323.04	1943.034	3672.231

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-05 Acquired: 11/8/2024 18:17:28 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0876319	-.034994	.6084226	-.095743	-.000847	194.8672
Stddev	.0052920	.003088	.0016079	.001636	.001345	.3868
%RSD	6.038845	8.824699	.2642765	1.709023	158.8045	.1985027
#1	.0904598	-.036280	.6095865	-.095759	-.000701	195.2714
#2	.0815268	-.031471	.6065879	-.097371	-.002258	194.5004
#3	.0909092	-.037232	.6090935	-.094099	.000419	194.8300

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.138417	.0161165	.0700894	52.55249	.3614752	.2235415
Stddev	.003188	.0000113	.0006193	.03977	.0020559	.0007130
%RSD	.2800153	.0702960	.8835078	.0756791	.5687384	.3189370
#1	1.138889	.0161043	.0707654	52.53446	.3628517	.2234535
#2	1.135019	.0161267	.0695495	52.59809	.3624620	.2228766
#3	1.141342	.0161185	.0699533	52.52493	.3591120	.2242943

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7053203	385.6528	17.92704	78.47011	.3940977	-.000732
Stddev	.0033640	3.7643	.09808	.14446	.0011540	.000870
%RSD	.4769541	.9760969	.5471019	.1840918	.2928182	118.9258
#1	.7090678	381.9138	17.81420	78.31386	.3953815	-.001619
#2	.7025610	389.4420	17.97514	78.59880	.3931467	.000121
#3	.7043322	385.6026	17.99179	78.49767	.3937649	-.000697

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.978064	.5947832	1.739646	29.29373	.2371751	.0055454
Stddev	.018717	.0013486	.007229	.03977	.0033277	.0001566
%RSD	.3130960	.2267404	.4155358	.1357680	1.403033	2.824698
#1	5.990928	.5946911	1.735428	29.28549	.2337415	.0055788
#2	5.956592	.5961756	1.735516	29.25872	.2403855	.0056826
#3	5.986673	.5934831	1.747993	29.33697	.2373983	.0053747

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-05 Acquired: 11/8/2024 18:17:28 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0509693	9.169489	F 19.01443	6.444675	F 20.65823	.3150179
Stddev	.0008083	.006185	.02463	.007994	.04688	.0007711
%RSD	1.585803	.0674552	.1295435	.1240465	.2269252	.2447844
#1	.0514616	9.165101	19.04098	6.436004	20.63509	.3149611
#2	.0514098	9.166802	19.01002	6.451752	20.62742	.3142767
#3	.0500365	9.176563	18.99231	6.446270	20.71218	.3158158

Elem	Sr4077
Units	ppm
Avg	-.093861
Stddev	.004298
%RSD	4.579528
#1	-.090080
#2	-.098536
#3	-.092967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2938.697	67720.31	16731.32	2103.584	3618.601
Stddev	9.338	85.37	8.15	13.874	9.011
%RSD	.3177716	.1260640	.0486892	.6595541	.2490296
#1	2936.262	67703.74	16740.28	2109.760	3617.756
#2	2930.817	67644.44	16724.37	2113.298	3610.042
#3	2949.011	67812.75	16729.30	2087.695	3628.005

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-09 Acquired: 11/8/2024 18:21:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1113246	-.029928	.9666056	-.073243	.0021083	156.5858
Stddev	.0017450	.006860	.0032943	.003550	.0002842	1.9288
%RSD	1.567481	22.92219	.3408083	4.847474	13.47749	1.231768
#1	.1113470	-.024988	.9687440	-.073695	.0022721	154.3587
#2	.1130583	-.027036	.9628120	-.069488	.0017802	157.6911
#3	.1095686	-.037761	.9682610	-.076546	.0022726	157.7077

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.030550	.0160050	.0538917	47.55100	.3163524	.1764649
Stddev	.025740	.0001247	.0002589	.39893	.0009410	.0008656
%RSD	1.267661	.7791791	.4805027	.8389485	.2974505	.4905217
#1	2.004015	.0158939	.0535927	47.11051	.3152761	.1774587
#2	2.055415	.0161399	.0540451	47.88794	.3167615	.1760604
#3	2.032221	.0159813	.0540372	47.65456	.3170196	.1758757

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4755761	298.2270	5.029180	80.75335	.3454707	.0021268
Stddev	.0015318	2.6470	.045655	.81935	.0003787	.0002788
%RSD	.3220908	.8875670	.9078035	1.014636	.1096173	13.10983
#1	.4745898	301.2813	4.981288	79.82218	.3459080	.0024319
#2	.4773408	296.6018	5.072209	81.36394	.3452511	.0020630
#3	.4747978	296.7978	5.034042	81.07393	.3452531	.0018853

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.591671	.5435092	1.549152	30.30193	.2119355	.0053281
Stddev	.054289	.0056428	.004940	.11357	.0053091	.0007380
%RSD	.7151067	1.038215	.3188998	.3748082	2.505041	13.85089
#1	7.634827	.5370271	1.554854	30.36138	.2180649	.0059429
#2	7.609470	.5473232	1.546440	30.37345	.2087784	.0045097
#3	7.530718	.5461772	1.546161	30.17097	.2089631	.0055316

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-09 Acquired: 11/8/2024 18:21:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0458746	6.880958	F 14.13776	8.172244	1.402198	.3276149
Stddev	.0009305	.076954	.05795	.025862	.011368	.0050900
%RSD	2.028391	1.118363	.4099201	.3164600	.8107428	1.553649
#1	.0457263	6.799860	14.07829	8.201724	1.403903	.3231849
#2	.0450272	6.952960	14.19406	8.161630	1.412618	.3331749
#3	.0468704	6.890053	14.14092	8.153377	1.390074	.3264848

Elem	Sr4077
Units	ppm
Avg	-.081337
Stddev	.005072
%RSD	6.235496
#1	-.087002
#2	-.077221
#3	-.079786

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3056.433	70620.42	17424.41	2164.969	3673.241
Stddev	4.689	500.30	94.03	22.286	7.983
%RSD	.1533987	.7084418	.5396266	1.029387	.2173243
#1	3051.052	70042.96	17525.59	2139.411	3664.072
#2	3059.639	70894.58	17339.73	2175.150	3678.646
#3	3058.609	70923.72	17407.89	2180.347	3677.006

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13 Acquired: 11/8/2024 18:26:17 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0496674	-.017210	.5724619	-.056079	.0018606	116.8944
Stddev	.0020108	.001689	.0021527	.003120	.0014667	.2668
%RSD	4.048547	9.816916	.3760406	5.564391	78.83265	.2282569
#1	.0473705	-.017523	.5745169	-.057889	.0026617	116.5981
#2	.0505212	-.018720	.5726456	-.057871	.0001677	116.9693
#3	.0511103	-.015385	.5702233	-.052476	.0027523	117.1157

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.024789	.0083003	.0354374	181.9585	.1791016	.1447535
Stddev	.003507	.0001209	.0000313	.7308	.0004759	.0002823
%RSD	.3421970	1.456883	.0884024	.4016335	.2657232	.1950195
#1	1.022094	.0082821	.0354130	181.2762	.1796354	.1450493
#2	1.023518	.0081895	.0354727	181.8697	.1789480	.1444870
#3	1.028754	.0084293	.0354265	182.7297	.1787215	.1447242

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5773051	237.9270	3.594739	58.98817	.2273011	.0012602
Stddev	.0014408	1.2487	.016039	.23634	.0005005	.0003061
%RSD	.2495754	.5248358	.4461758	.4006490	.2201788	24.29027
#1	.5783630	236.5567	3.582032	58.72574	.2275177	.0009071
#2	.5756641	238.2234	3.589425	59.05457	.2267288	.0014222
#3	.5778881	239.0008	3.612761	59.18421	.2276568	.0014512

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.18764	.5025907	1.307814	18.53194	1.556386	.0054548
Stddev	.05898	.0036574	.003860	.04448	.005538	.0003429
%RSD	.4156944	.7277180	.2951712	.2400404	.3558176	6.285199
#1	14.14307	.5003183	1.306907	18.48117	1.557365	.0053762
#2	14.16535	.5006441	1.312048	18.55056	1.550424	.0051582
#3	14.25452	.5068098	1.304489	18.56409	1.561369	.0058302

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13 Acquired: 11/8/2024 18:26:17 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0392995	4.361678	F 22.37377	5.951450	4.237137	.2106040
Stddev	.0013832	.013864	.08169	.012643	.003062	.0009178
%RSD	3.519512	.3178504	.3651182	.2124411	.0722690	.4357969
#1	.0382572	4.353320	22.27986	5.939138	4.235790	.2116609
#2	.0387726	4.354033	22.41301	5.964400	4.240642	.2100077
#3	.0408686	4.377681	22.42844	5.950811	4.234980	.2101433

Elem	Sr4077
Units	ppm
Avg	.5151282
Stddev	.0058921
%RSD	1.143821
#1	.5215300
#2	.5139225
#3	.5099322

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2579.912	60492.51	15258.95	1837.487	3554.172
Stddev	8.043	30.66	35.38	4.076	2.200
%RSD	.3117593	.0506807	.2318442	.2218319	.0619114
#1	2584.843	60464.28	15223.76	1841.462	3556.535
#2	2584.263	60488.13	15294.51	1833.317	3553.798
#3	2570.631	60525.12	15258.57	1837.682	3552.182

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13DUP Acquired: 11/8/2024 18:30:29 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0508205	-.014927	.5686713	-.060176	.0025719	118.0441
Stddev	.0027353	.005289	.0012722	.002718	.0007889	.6235
%RSD	5.382271	35.43473	.2237093	4.516561	30.67404	.5281999
#1	.0487072	-.008981	.5685117	-.062667	.0028140	117.8057
#2	.0498443	-.016693	.5700157	-.057277	.0032115	118.7517
#3	.0539100	-.019108	.5674864	-.060584	.0016904	117.5750

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.042825	.0084663	.0347297	183.9010	.1815744	.1443810
Stddev	.006168	.0001141	.0001121	.5213	.0005056	.0004597
%RSD	.5914656	1.347229	.3227931	.2834674	.2784304	.3184193
#1	1.042756	.0083450	.0348503	183.3483	.1810048	.1438627
#2	1.049027	.0085714	.0347099	184.3838	.1819700	.1447394
#3	1.036692	.0084824	.0346287	183.9708	.1817483	.1445410

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5640822	243.2587	3.644717	59.72107	.2261818	.0019893
Stddev	.0008432	.4081	.007440	.12805	.0006611	.0004101
%RSD	.1494796	.1677615	.2041222	.2144140	.2922999	20.61538
#1	.5632105	243.4375	3.639136	59.57396	.2254321	.0015384
#2	.5648936	242.7917	3.653163	59.78176	.2266815	.0020893
#3	.5641426	243.5468	3.641852	59.80749	.2264317	.0023401

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.62900	.5097099	1.310302	18.95149	1.580514	.0056175
Stddev	.10624	.0013492	.002140	.05927	.004397	.0001256
%RSD	.7262283	.2646985	.1633106	.3127674	.2782260	2.236139
#1	14.72880	.5101042	1.311138	18.99299	1.577580	.0056595
#2	14.64087	.5108180	1.311897	18.97787	1.585570	.0054763
#3	14.51732	.5082075	1.307870	18.88360	1.578393	.0057168

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13DUP Acquired: 11/8/2024 18:30:29 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0386473	4.439329	F 23.21572	5.921314	4.163648	.2145466
Stddev	.0010801	.017346	.02289	.014323	.016770	.0013894
%RSD	2.794762	.3907280	.0985779	.2418881	.4027726	.6475796
#1	.0376507	4.436312	23.19973	5.904993	4.156032	.2155407
#2	.0384962	4.457985	23.24193	5.931791	4.152037	.2151399
#3	.0397950	4.423689	23.20550	5.927159	4.182874	.2129591

Elem	Sr4077
Units	ppm
Avg	.5185021
Stddev	.0076092
%RSD	1.467538
#1	.5138298
#2	.5272824
#3	.5143940

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2637.837	59837.94	15195.04	1844.096	3615.151
Stddev	4.040	175.38	62.88	9.516	3.571
%RSD	.1531372	.2930880	.4138479	.5160198	.0987739
#1	2635.575	59690.43	15206.48	1834.647	3617.083
#2	2635.436	59791.53	15127.22	1843.963	3611.030
#3	2642.501	60031.86	15251.42	1853.677	3617.340

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13LX5 Acquired: 11/8/2024 18:34:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105871	-.005041	.1241224	-.011214	-.000489	26.40100	.2324085
Stddev	.0019724	.000995	.0007746	.001680	.001245	.28976	.0033147
%RSD	18.63059	19.74220	.6241045	14.98306	254.4770	1.097533	1.426229
#1	.0097273	-.006164	.1233269	-.010115	-.000976	26.09172	.2285879
#2	.0128434	-.004267	.1248744	-.013148	.000925	26.44512	.2341209
#3	.0091905	-.004693	.1241659	-.010379	-.001416	26.66618	.2345167

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020773	.0055825	43.21201	.0429211	.0297124	.1384904	55.27777
Stddev	.0000175	.0001170	.58417	.0005433	.0001880	.0002436	.23467
%RSD	.8422708	2.095265	1.351876	1.265897	.6326811	.1759203	.4245364
#1	.0020946	.0055398	42.58724	.0435395	.0295193	.1387708	55.00710
#2	.0020776	.0054929	43.30416	.0427036	.0297232	.1383303	55.40192
#3	.0020596	.0057149	43.74463	.0425203	.0298948	.1383702	55.42428

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8793576	13.83916	.0478123	.0008098	2.870054	.1183857	.2988432
Stddev	.0113914	.18387	.0001945	.0000349	.007182	.0017537	.0004483
%RSD	1.295424	1.328601	.4068209	4.312431	.2502512	1.481342	.1500238
#1	.8662121	13.62935	.0476774	.0008291	2.868348	.1167838	.2984078
#2	.8855290	13.91595	.0480353	.0008309	2.877936	.1181139	.2988183
#3	.8863316	13.97219	.0477242	.0007695	2.863878	.1202595	.2993034

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.941290	.3941366	.0014791	.0048363	1.034010	4.860976	1.209192
Stddev	.024733	.0036946	.0002925	.0000761	.013817	.019848	.005990
%RSD	.6275363	.9373834	19.77879	1.573491	1.336237	.4083090	.4953374
#1	3.912837	.3904119	.0017013	.0048957	1.018347	4.839553	1.202413
#2	3.953393	.3941975	.0015884	.0047505	1.039217	4.864638	1.213768
#3	3.957642	.3978003	.0011477	.0048626	1.044467	4.878738	1.211394

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13LX5 Acquired: 11/8/2024 18:34:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8539224	.0457721	.1203422
Stddev	.0031056	.0004650	.0015673
%RSD	.3636829	1.015849	1.302394
#1	.8564118	.0462683	.1185408
#2	.8549130	.0457017	.1210925
#3	.8504423	.0453464	.1213933

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2579.354	58318.44	13720.49	1847.004	4047.475
Stddev	12.767	70.52	105.64	4.660	9.835
%RSD	.4949652	.1209139	.7699598	.2522979	.2429859
#1	2564.911	58237.24	13834.84	1842.108	4037.450
#2	2589.134	58364.21	13700.11	1847.519	4057.108
#3	2584.017	58353.88	13626.53	1851.385	4047.869

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13MS Acquired: 11/8/2024 18:38:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7480864	1.789016	1.450305	1.615146	.6937164	119.3590
Stddev	.0061902	.020659	.004548	.002914	.0009708	.2736
%RSD	.8274762	1.154759	.3135995	.1804417	.1399347	.2292050
#1	.7473399	1.767785	1.446994	1.618422	.6925975	119.6745
#2	.7546160	1.809050	1.448431	1.614174	.6943349	119.1863
#3	.7423032	1.790213	1.455491	1.612842	.6942167	119.2164

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.208454	.1687680	.2147263	185.3490	.4837590	.3299332
Stddev	.002907	.0005480	.0008654	.2813	.0021861	.0012372
%RSD	.2405866	.3247210	.4030110	.1517800	.4518882	.3749711
#1	1.211808	.1693401	.2137606	185.3933	.4862644	.3291531
#2	1.206903	.1687161	.2149867	185.0482	.4822399	.3292869
#3	1.206651	.1682478	.2154316	185.6056	.4827727	.3313597

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8105834	237.1377	3.825458	61.44370	.6842205	.0667090
Stddev	.0017441	1.5093	.005732	.15274	.0022041	.0003841
%RSD	.2151690	.6364689	.1498473	.2485900	.3221280	.5757438
#1	.8086411	235.5590	3.825458	61.41823	.6827519	.0665966
#2	.8110936	237.2877	3.819726	61.30529	.6831547	.0663936
#3	.8120156	238.5664	3.831191	61.60758	.6867549	.0671367

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.72178	.7571499	1.457792	27.03367	1.796155	.3507412
Stddev	.03299	.0034731	.001424	.13416	.003128	.0004582
%RSD	.1972930	.4587019	.0976967	.4962714	.1741699	.1306444
#1	16.69536	.7609959	1.456535	26.91556	1.799621	.3502321
#2	16.71121	.7542427	1.459339	27.00590	1.795301	.3508709
#3	16.75876	.7562111	1.457502	27.17954	1.793542	.3511206

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13MS Acquired: 11/8/2024 18:38:52 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6690112	4.589111	F 22.58885	F 11.80656	4.173904	.3749924
Stddev	.0037529	.004696	.12259	.04068	.014784	.0019813
%RSD	.5609558	.1023263	.5426836	.3445934	.3542126	.5283576
#1	.6648830	4.594231	22.45905	11.76647	4.156864	.3771055
#2	.6699341	4.585005	22.60484	11.80541	4.181523	.3731765
#3	.6722166	4.588096	22.70265	11.84781	4.183325	.3746951

Elem	Sr4077
Units	ppm
Avg	.6943814
Stddev	.0010203
%RSD	.1469429
#1	.6945556
#2	.6953034
#3	.6932852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2628.267	61013.15	14858.09	1866.425	3587.392
Stddev	3.018	212.58	48.62	12.728	5.033
%RSD	.1148384	.3484220	.3272159	.6819676	.1403087
#1	2625.668	61195.56	14803.83	1879.607	3591.226
#2	2627.555	61064.21	14897.67	1865.464	3589.258
#3	2631.577	60779.69	14872.78	1854.205	3581.692

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13MSD Acquired: 11/8/2024 18:42:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7536263	1.772921	1.453924	1.632081	.7029402	119.0799
Stddev	.0036144	.018407	.008200	.008839	.0011155	1.6056
%RSD	.4795984	1.038241	.5640223	.5415722	.1586916	1.348380
#1	.7541132	1.753216	1.444460	1.626400	.7018009	117.2277
#2	.7569725	1.775875	1.458933	1.627578	.7029896	120.0776
#3	.7497932	1.789673	1.458377	1.642265	.7040303	119.9343

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.191759	.1676765	.2157250	184.0435	.4836636	.3316062
Stddev	.015322	.0014119	.0005700	3.1187	.0013334	.0005021
%RSD	1.285665	.8420439	.2642210	1.694531	.2756838	.1514180
#1	1.174240	.1660632	.2151075	180.4531	.4821244	.3310841
#2	1.202656	.1686867	.2158365	185.5974	.4844012	.3320855
#3	1.198382	.1682795	.2162311	186.0799	.4844652	.3316490

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8172570	237.4245	3.767653	61.30786	.6878899	.0671778
Stddev	.0008867	2.1666	.062707	1.10958	.0025699	.0005660
%RSD	.1084930	.9125367	1.664361	1.809848	.3735868	.8425269
#1	.8177091	235.0630	3.695289	60.03091	.6849966	.0667472
#2	.8162354	237.8898	3.801631	61.85574	.6899073	.0669673
#3	.8178265	239.3206	3.806038	62.03693	.6887657	.0678189

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.73794	.7533694	1.463071	27.14934	1.786604	.3547587
Stddev	.04206	.0108590	.003860	.10687	.018601	.0003367
%RSD	.2512750	1.441392	.2638440	.3936549	1.041139	.0949034
#1	16.69272	.7410391	1.462442	27.02594	1.765699	.3547236
#2	16.77590	.7575620	1.467208	27.21141	1.801326	.3544409
#3	16.74519	.7615072	1.459565	27.21068	1.792787	.3551115

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13MSD Acquired: 11/8/2024 18:42:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6736447	4.562516	F 23.27672	F 11.76824	4.177820	.3666673
Stddev	.0019065	.061633	.16126	.02613	.017161	.0040646
%RSD	.2830061	1.350846	.6928089	.2220333	.4107620	1.108524
#1	.6715218	4.491587	23.11810	11.73964	4.159920	.3619941
#2	.6752108	4.603025	23.27154	11.77421	4.179411	.3693808
#3	.6742015	4.592935	23.44051	11.79086	4.194131	.3686269

Elem	Sr4077
Units	ppm
Avg	.6863194
Stddev	.0118097
%RSD	1.720721
#1	.6728940
#2	.6909619
#3	.6951024

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2603.155	60775.55	14997.91	1854.724	3568.752
Stddev	7.027	69.08	142.43	2.814	3.425
%RSD	.2699494	.1136584	.9496794	.1517009	.0959745
#1	2597.390	60827.32	15160.86	1851.541	3566.838
#2	2610.983	60802.22	14897.14	1856.879	3572.707
#3	2601.093	60697.12	14935.74	1855.752	3566.713

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13A Acquired: 11/8/2024 18:47:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7547354	1.767153	1.439959	1.632150	.7067308	120.5812
Stddev	.0023183	.028120	.003838	.006653	.0009641	.0349
%RSD	.3071672	1.591273	.2665166	.4076360	.1364234	.0289070
#1	.7532764	1.787208	1.440519	1.637651	.7073411	120.5732
#2	.7574086	1.779242	1.443486	1.624755	.7056193	120.5511
#3	.7535213	1.735010	1.435872	1.634043	.7072319	120.6194

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.208336	.1653859	.2144646	184.5832	.4763130	.3297805
Stddev	.004133	.0005138	.0005279	.5674	.0023576	.0005927
%RSD	.3420546	.3106679	.2461571	.3073904	.4949608	.1797359
#1	1.204437	.1659183	.2149749	184.9219	.4738729	.3302117
#2	1.207902	.1653465	.2144984	184.8995	.4764879	.3300252
#3	1.212669	.1648930	.2139207	183.9282	.4785783	.3291046

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8133721	236.8666	3.781415	61.45449	.6817194	.0664303
Stddev	.0020589	.8109	.008281	.18708	.0009897	.0003735
%RSD	.2531272	.3423522	.2190004	.3044190	.1451784	.5622239
#1	.8144373	235.9766	3.786724	61.62103	.6823782	.0660006
#2	.8109988	237.0594	3.785649	61.49037	.6821986	.0666141
#3	.8146800	237.5637	3.771873	61.25207	.6805813	.0666764

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.92991	.7567729	1.456549	27.45414	1.778055	.3536712
Stddev	.11912	.0014745	.004778	.20604	.007714	.0007729
%RSD	.7036170	.1948344	.3280287	.7505024	.4338200	.2185372
#1	16.82521	.7567435	1.460842	27.25804	1.782337	.3536223
#2	16.90498	.7582618	1.457405	27.43552	1.782677	.3529239
#3	17.05952	.7553133	1.451401	27.66887	1.769150	.3544674

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4739-13A Acquired: 11/8/2024 18:47:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6642025	4.628094	F 23.71465	F 11.57091	4.134876	.3734742
Stddev	.0016834	.006798	.11363	.00164	.010086	.0014418
%RSD	.2534439	.1468793	.4791624	.0141768	.2439184	.3860396
#1	.6658291	4.622454	23.60406	11.57222	4.143296	.3729166
#2	.6624676	4.635642	23.70880	11.57143	4.137633	.3723944
#3	.6643106	4.626186	23.83109	11.56907	4.123698	.3751115

Elem	Sr4077
Units	ppm
Avg	.6992838
Stddev	.0028091
%RSD	.4017043
#1	.7015134
#2	.7002091
#3	.6961288

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.776	60859.75	14962.75	1831.626	3551.701
Stddev	2.741	67.02	89.27	12.071	7.288
%RSD	.1061956	.1101287	.5966077	.6590305	.2051913
#1	2583.053	60803.87	14867.80	1820.253	3551.597
#2	2581.542	60934.06	14975.49	1830.335	3544.465
#3	2577.734	60841.32	15044.97	1844.291	3559.040

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164757BL Acquired: 11/8/2024 18:51:07 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000194	-.000590	-.001191	.0007527	-.000444	.0053073	-.004526
Stddev	.0007130	.001025	.000693	.0016961	.000260	.0034874	.000545
%RSD	3671.620	173.7851	58.18439	225.3484	58.56717	65.70943	12.05262
#1	.0000157	-.000541	-.000586	.0014209	-.000147	.0028212	-.005154
#2	-.000692	-.001639	-.001948	-.001176	-.000631	.0038069	-.004173
#3	.000734	.000410	-.001041	.002013	-.000554	.0092938	-.004250

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000205	-.000078	.0045044	.0000196	.0000921	-.000125	.0055367
Stddev	.0000267	.000017	.0037805	.0003155	.0000695	.000351	.0014999
%RSD	130.3630	21.87863	83.92934	1611.549	75.38597	281.7282	27.09012
#1	.0000075	-.000060	.0088626	-.000342	.0000520	.000257	.0039185
#2	.0000512	-.000094	.0021104	.000166	.0001723	-.000198	.0058112
#3	.0000028	-.000078	.0025401	.000235	.0000521	-.000434	.0068804

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000934	.0049970	-.000282	.0008736	-.103599	.0001778	.0001499
Stddev	.0001373	.0025830	.000059	.0002125	.024072	.0010707	.0002316
%RSD	147.0014	51.69204	21.01553	24.32013	23.23599	602.2591	154.4913
#1	.0002416	.0029389	-.000224	.0008987	-.128331	.0011994	-.000063
#2	-.000029	.0078955	-.000342	.0006497	-.102221	.0002700	.000116
#3	.000068	.0041564	-.000281	.0010724	-.080245	-.000936	.000397

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017570	.0025817	.0002772	-.000100	.0006404	.0066682	-.002737
Stddev	.0051182	.0001421	.0000439	.000155	.0002735	.0029099	.000490
%RSD	291.2970	5.502670	15.82193	156.2222	42.71245	43.63829	17.89099
#1	.0057847	.0026169	.0003278	.000070	.0008471	.0068330	-.002484
#2	.0034888	.0024253	.0002548	-.000235	.0007440	.0036794	-.003302
#3	-.004002	.0027028	.0002491	-.000134	.0003302	.0094922	-.002426

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164757BL Acquired: 11/8/2024 18:51:07 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000599	-.001798	-.000001
Stddev	.003851	.001103	.000019
%RSD	643.4633	61.33869	3552.628
#1	.002164	-.002947	-.000022
#2	.001039	-.001699	.000008
#3	-.004998	-.000748	.000013

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2614.685	58700.91	13771.01	1826.760	4526.273
Stddev	19.014	99.70	31.62	7.250	28.628
%RSD	.7272035	.1698465	.2296477	.3968661	.6324785
#1	2599.810	58618.52	13771.49	1818.675	4503.107
#2	2636.108	58672.47	13802.39	1828.921	4558.278
#3	2608.136	58811.74	13739.14	1832.683	4517.433

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV06 Acquired: 11/8/2024 18:55:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.973032	4.987696	4.832327	5.100525	5.066308	9.786154	9.460703
Stddev	.016798	.001293	.005138	.009651	.009545	.050296	.102976
%RSD	.3377773	.0259206	.1063336	.1892205	.1883932	.5139555	1.088456
#1	4.958441	4.987359	4.835899	5.090539	5.055293	9.728080	9.442254
#2	4.969258	4.986604	4.826439	5.101233	5.072138	9.815658	9.368199
#3	4.991395	4.989123	4.834644	5.109803	5.071492	9.814725	9.571656

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2364276	2.364460	23.48257	.9227121	2.401380	1.254936	4.699845
Stddev	.0007745	.002483	.19816	.0042552	.003165	.001430	.023156
%RSD	.3275702	.1050287	.8438570	.4611665	.1318074	.1139659	.4927016
#1	.2355739	2.364071	23.26471	.9269042	2.400989	1.253412	4.679455
#2	.2366241	2.362195	23.65208	.9183965	2.398428	1.255148	4.695059
#3	.2370850	2.367115	23.53092	.9228357	2.404723	1.256248	4.725020

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.290367	23.45581	2.401504	1.223636	23.92028	2.386386	2.532747
Stddev	.019414	.26485	.002637	.003034	.11162	.021473	.005047
%RSD	.8476321	1.129158	.1098044	.2479409	.4666277	.8998114	.1992724
#1	2.267950	23.15005	2.401986	1.225688	23.81762	2.361610	2.526929
#2	2.301434	23.60324	2.398659	1.220151	23.90413	2.399611	2.535951
#3	2.301716	23.61416	2.403867	1.225069	24.03910	2.397938	2.535361

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.51189	4.725685	5.002273	4.764395	4.683282	4.856506	4.976206
Stddev	.09427	.020913	.011318	.001378	.033088	.061834	.008537
%RSD	.3845929	.4425435	.2262494	.0289145	.7065104	1.273226	.1715492
#1	24.43455	4.705399	4.989268	4.764089	4.645158	4.789360	4.985679
#2	24.48423	4.747174	5.009889	4.763196	4.700179	4.869053	4.973831
#3	24.61690	4.724481	5.007662	4.765900	4.704511	4.911103	4.969109

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV06 Acquired: 11/8/2024 18:55:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.739007	4.634864	4.821011
Stddev	.008462	.033964	.013752
%RSD	.1785649	.7327968	.2852526
#1	4.730504	4.595885	4.806220
#2	4.739089	4.650609	4.823402
#3	4.747428	4.658098	4.833411

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2453.090	55866.26	13421.23	1756.504	3910.332
Stddev	2.356	39.42	68.37	9.738	5.919
%RSD	.0960406	.0705680	.5094096	.5543685	.1513727
#1	2454.967	55894.30	13486.33	1765.054	3904.211
#2	2450.446	55883.30	13350.01	1745.905	3916.026
#3	2453.857	55821.18	13427.37	1758.553	3910.759

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB06 Acquired: 11/8/2024 18:59:39 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001439	-.000732	.0003308	.0003483	-.000529	.0066374	-.003587
Stddev	.002585	.001831	.0006192	.0008202	.000988	.0015625	.000311
%RSD	179.6106	250.1261	187.1799	235.5136	186.8611	23.54137	8.672715
#1	-.000777	.000413	-.000009	.0012829	.000608	.0051791	-.003941
#2	-.004291	-.002843	-.000044	-.000252	-.001007	.0082866	-.003360
#3	.000750	.000234	.001046	.000013	-.001187	.0064466	-.003459

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000577	.0000169	.0243930	.0000471	.0001525	.0000417	.0004135
Stddev	.0000257	.0000239	.0001877	.0004512	.0000378	.0002410	.0035470
%RSD	44.65211	141.0141	.7696564	957.8616	24.80881	578.6253	857.7458
#1	.0000422	.0000382	.0246071	-.000037	.0001280	.0000294	.0020797
#2	.0000874	-.000009	.0242568	.000534	.0001334	-.000193	-.003660
#3	.0000434	.000021	.0243151	-.000356	.0001961	.000289	.002821

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000400	.0064770	.0002454	.0007461	-.121524	-.000142	.0016652
Stddev	.0001970	.0097847	.0001310	.0001457	.041066	.001521	.0000588
%RSD	492.9750	151.0697	53.39592	19.52224	33.79279	1074.029	3.530798
#1	.0002529	.0129602	.0001350	.0007933	-.168934	.000748	.0015992
#2	.0000027	.0112489	.0003902	.0008624	-.098616	.000725	.0016846
#3	-.000136	-.004778	.0002110	.0005827	-.097021	-.001898	.0017119

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006410	.0047547	.0004828	-.000379	.0004593	.0042351	-.005820
Stddev	.021947	.0001587	.0002200	.000671	.0001432	.0021560	.000431
%RSD	342.3989	3.336688	45.56998	177.1339	31.17290	50.90753	7.402549
#1	-.030511	.0047838	.0005469	-.000608	.0003099	.0057992	-.005561
#2	-.001144	.0045835	.0006635	.000377	.0004726	.0051304	-.005581
#3	.012426	.0048967	.0002378	-.000905	.0005954	.0017757	-.006317

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB06 Acquired: 11/8/2024 18:59:39 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0057483	-.001579	.0000911
Stddev	.0016401	.001176	.0000239
%RSD	28.53219	74.46482	26.26156
#1	.0076036	-.002462	.0001185
#2	.0051501	-.002032	.0000741
#3	.0044913	-.000244	.0000807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2605.573	60230.51	13659.33	1898.399	4475.482
Stddev	3.123	1563.60	28.14	48.963	8.208
%RSD	.1198583	2.596022	.2060431	2.579190	.1833903
#1	2602.328	62027.86	13681.76	1954.703	4468.120
#2	2605.833	59183.55	13668.47	1865.799	4473.995
#3	2608.558	59480.13	13627.75	1874.695	4484.331

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164757BS Acquired: 11/8/2024 19:03:59 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7863808	2.005408	.9419758	1.965596	.7789009	1.983995
Stddev	.0063946	.028330	.0073145	.012799	.0032606	.027071
%RSD	.8131736	1.412657	.7765053	.6511339	.4186162	1.364485
#1	.7835468	2.004625	.9434740	1.969843	.7777180	1.952787
#2	.7937028	2.034122	.9484252	1.975732	.7825878	1.998041
#3	.7818930	1.977479	.9340282	1.951214	.7763968	2.001157

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1839426	.1943684	.1819490	.9802538	.3615632	.1882771
Stddev	.0027204	.0030570	.0014682	.0179991	.0060895	.0015986
%RSD	1.478960	1.572796	.8069455	1.836168	1.684206	.8490790
#1	.1809014	.1908424	.1821339	.9594910	.3545356	.1882715
#2	.1861444	.1959857	.1833160	.9914396	.3652814	.1898785
#3	.1847821	.1962769	.1803971	.9898308	.3648725	.1866813

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3052753	2.708093	.1886819	1.886689	.4715683	.0730141
Stddev	.0027324	.052214	.0020379	.022452	.0039432	.0014500
%RSD	.8950712	1.928089	1.080079	1.189995	.8361829	1.985939
#1	.3060460	2.650960	.1865163	1.860924	.4725233	.0713528
#2	.3075395	2.753341	.1905621	1.902060	.4749462	.0736643
#3	.3022402	2.719977	.1889674	1.897083	.4672353	.0740253

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.481973	.2890202	.2050824	9.233718	.2852604	.3990053
Stddev	.048313	.0052482	.0042302	.139533	.0048193	.0028047
%RSD	1.946550	1.815858	2.062687	1.511124	1.689440	.7029288
#1	2.427090	.2830136	.2003732	9.075933	.2796957	.3990984
#2	2.500751	.2913280	.2063137	9.284372	.2880057	.4017623
#3	2.518077	.2927191	.2085604	9.340848	.2880799	.3961552

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164757BS Acquired: 11/8/2024 19:03:59 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6414690	.1871936	F .6590599	5.501692	F -.012306	.1728080
Stddev	.0067073	.0021055	.0069539	.057751	.001007	.0030261
%RSD	1.045609	1.124749	1.055119	1.049703	8.182111	1.751158
#1	.6401529	.1847902	.6530034	5.524029	-.011155	.1698195
#2	.6487367	.1887127	.6575224	5.544938	-.013027	.1758705
#3	.6355173	.1880779	.6666538	5.436108	-.012735	.1727340

Elem	Sr4077
Units	ppm
Avg	.1958315
Stddev	.0026848
%RSD	1.370996
#1	.1927628
#2	.1977476
#3	.1969840

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2583.069	59313.59	13388.35	1851.021	4334.228
Stddev	17.822	665.84	152.88	18.962	32.014
%RSD	.6899629	1.122575	1.141865	1.024399	.7386211
#1	2577.584	60077.33	13564.29	1870.868	4327.170
#2	2568.634	59008.31	13287.92	1849.107	4306.333
#3	2602.989	58855.13	13312.84	1833.089	4369.182

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01 Acquired: 11/8/2024 19:08:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011393	-.004787	-.001042	.0017058	.0001022	.0062306
Stddev	.0017780	.001349	.000963	.0025215	.0001866	.0052527
%RSD	156.0605	28.17170	92.40977	147.8174	182.5303	84.30523
#1	.0022566	-.003302	-.001223	.0009569	-.000082	.0103438
#2	.0020723	-.005122	-.001901	-.000356	.000098	.0080345
#3	-.000911	-.005936	-.000001	.004517	.000291	.0003136

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1637106	.0000366	.0002840	144.3618	.0157200	.0004107
Stddev	.0009580	.0000632	.0000672	.3993	.0003352	.0001178
%RSD	.5851873	172.8929	23.66180	.2766257	2.132400	28.66577
#1	.1642104	.0000593	.0002616	144.7486	.0153339	.0005280
#2	.1626061	-.000035	.0002309	143.9510	.0158894	.0004118
#3	.1643154	.000085	.0003596	144.3858	.0159368	.0002925

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024109	.5271949	.0246348	52.65840	.1143037	.0006313
Stddev	.0001648	.0033136	.0001595	.07478	.0003801	.0001213
%RSD	6.835395	.6285317	.6474743	.1420058	.3325496	19.21144
#1	.0023781	.5245727	.0247045	52.74407	.1145139	.0004921
#2	.0022649	.5309191	.0244523	52.60622	.1145322	.0006877
#3	.0025896	.5260930	.0247476	52.62491	.1138649	.0007142

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	664.3006	.0375242	.0600371	39.51333	.5796178	.0134594
Stddev	2.8131	.0003129	.0001708	.05633	.0014743	.0003661
%RSD	.4234738	.8340020	.2844165	.1425620	.2543559	2.719951
#1	662.5730	.0375844	.0598401	39.46536	.5805244	.0137960
#2	662.7821	.0371855	.0601424	39.49927	.5779166	.0135124
#3	667.5467	.0378027	.0601289	39.57536	.5804122	.0130696

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01 Acquired: 11/8/2024 19:08:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007058	-.002784	F 14.93909	.2993198	F 48.97102	.0483893
Stddev	.001610	.000681	.01781	.0014116	.08402	.0014158
%RSD	22.80834	24.45156	.1192209	.4716113	.1715613	2.925856
#1	-.005476	-.002010	14.92362	.2991993	49.02185	.0472269
#2	-.008694	-.003050	14.95856	.2979722	49.01717	.0479748
#3	-.007002	-.003291	14.93509	.3007878	48.87405	.0499660

Elem	Sr4077
Units	ppm
Avg	1.333922
Stddev	.013087
%RSD	.9810550
#1	1.318816
#2	1.341813
#3	1.341136

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2082.947	48555.12	12891.93	1478.149	3235.853
Stddev	3.012	144.10	39.60	13.028	2.825
%RSD	.1445856	.2967686	.3072017	.8813959	.0873186
#1	2086.321	48718.91	12905.73	1492.278	3237.494
#2	2081.991	48447.87	12922.78	1475.560	3232.590
#3	2080.530	48498.57	12847.27	1466.610	3237.474

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01DUP Acquired: 11/8/2024 19:12:32 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003055	-.004455	-.000846	.0019252	.0010666	.0005592
Stddev	.001413	.000556	.001440	.0004756	.0010225	.0047566
%RSD	46.26499	12.48382	170.2531	24.70151	95.86115	850.6221
#1	-.001869	-.003987	-.002310	.0016573	.0022057	.0060006
#2	-.002677	-.005070	-.000797	.0016441	.0002280	-.001515
#3	-.004618	-.004309	.000569	.0024743	.0007663	-.002809

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1627891	.0000413	.0002167	143.6114	.0157324	.0003946
Stddev	.0004511	.0000203	.0001618	.3268	.0000535	.0001412
%RSD	.2771182	49.15765	74.67750	.2275750	.3397957	35.79045
#1	.1629336	.0000251	.0001899	143.2590	.0157482	.0004579
#2	.1622835	.0000640	.0003902	143.6707	.0157762	.0004930
#3	.1631503	.0000347	.0000699	143.9046	.0156728	.0002328

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021272	.5346538	.0239893	52.32617	.1141297	.0005042
Stddev	.0005055	.0052598	.0004064	.25231	.0002963	.0002672
%RSD	23.76201	.9837716	1.694261	.4821888	.2595797	52.99861
#1	.0026279	.5385777	.0235277	52.03864	.1138004	.0006062
#2	.0021368	.5286772	.0241466	52.42922	.1142142	.0007054
#3	.0016171	.5367065	.0242935	52.51064	.1143746	.0002010

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	677.3720	.0360287	.0601627	39.78572	.5827803	.0134283
Stddev	2.1655	.0013143	.0005563	.04131	.0031758	.0003446
%RSD	.3196872	3.647978	.9246136	.1038414	.5449442	2.565975
#1	677.4671	.0370534	.0595205	39.80523	.5798931	.0138201
#2	679.4884	.0364859	.0604714	39.81366	.5861819	.0131725
#3	675.1606	.0345469	.0604962	39.73826	.5822657	.0132924

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01DUP Acquired: 11/8/2024 19:12:32 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006731	-.002744	F 15.05369	.2976171	F 48.79650	.0473569
Stddev	.000990	.000145	.05462	.0033116	.03804	.0014162
%RSD	14.70601	5.272825	.3628552	1.112713	.0779601	2.990554
#1	-.006577	-.002911	14.99111	.2960192	48.81578	.0470817
#2	-.007789	-.002659	15.07811	.3014247	48.75267	.0488905
#3	-.005827	-.002661	15.09184	.2954075	48.82104	.0460984

Elem	Sr4077
Units	ppm
Avg	1.335903
Stddev	.007117
%RSD	.5327351
#1	1.327809
#2	1.338718
#3	1.341182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2117.473	47841.97	12883.55	1480.808	3277.725
Stddev	7.984	169.64	62.40	11.914	6.874
%RSD	.3770682	.3545863	.4843303	.8045571	.2097223
#1	2108.810	48036.17	12955.60	1492.851	3269.787
#2	2119.075	47767.08	12846.90	1480.545	3281.735
#3	2124.536	47722.66	12848.16	1469.028	3281.652

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01LX5 Acquired: 11/8/2024 19:17:03 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000923	-.000203	-.000839	.0033152	-.000483	-.002288	.0298455
Stddev	.002389	.001597	.000723	.0006466	.001300	.008314	.0002395
%RSD	258.9272	784.9701	86.11758	19.50445	268.9795	363.4399	.8023939
#1	-.001019	.000427	-.000919	.0040571	-.001044	.006730	.0298326
#2	.001513	.000982	-.001519	.0028714	.001003	-.009650	.0296128
#3	-.003262	-.002020	-.000080	.0030172	-.001409	-.003943	.0300912

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000275	.0000343	29.42329	.0033445	.0000891	.0004054	.1002607
Stddev	.0000213	.0001023	.03755	.0001985	.0000534	.0001978	.0022714
%RSD	77.31243	298.0883	.1276263	5.935538	59.94628	48.77931	2.265497
#1	.0000177	.0001220	29.46608	.0034945	.0001212	.0005496	.1019009
#2	.0000519	-.000078	29.40801	.0034196	.0000274	.0004866	.0976682
#3	.0000129	.000059	29.39579	.0031194	.0001187	.0001800	.1012131

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048491	10.50816	.0228613	.0006593	116.3179	.0080644	.0109855
Stddev	.0000539	.02275	.0002835	.0000811	.7544	.0006353	.0001941
%RSD	1.110689	.2164872	1.240018	12.29380	.6485286	7.877629	1.766758
#1	.0048949	10.51878	.0231182	.0007459	117.1449	.0081603	.0108451
#2	.0048626	10.52367	.0229085	.0006466	115.6676	.0073866	.0112070
#3	.0047897	10.48205	.0225572	.0005853	116.1411	.0086462	.0109046

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.929237	.1255687	.0025663	-.002531	-.000125	2.647798	.0483932
Stddev	.046125	.0006407	.0001134	.000249	.000318	.006286	.0029567
%RSD	.6656647	.5102470	4.417626	9.850881	254.9480	.2374158	6.109796
#1	6.976161	.1259939	.0026954	-.002625	.000080	2.653904	.0513601
#2	6.883953	.1258804	.0025209	-.002249	-.000491	2.648143	.0483728
#3	6.927598	.1248318	.0024828	-.002720	.000037	2.641346	.0454468

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01LX5 Acquired: 11/8/2024 19:17:03 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.950570	.0082942	.2669914
Stddev	.042485	.0012575	.0012328
%RSD	.4746579	15.16087	.4617512
#1	8.914034	.0087072	.2682474
#2	8.940487	.0068821	.2657831
#3	8.997189	.0092932	.2669438

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2444.582	55197.69	13345.52	1741.940	3909.506
Stddev	16.580	113.14	38.20	3.090	21.992
%RSD	.6782259	.2049801	.2862486	.1774130	.5625345
#1	2446.482	55142.04	13314.90	1742.073	3917.550
#2	2460.129	55123.15	13333.32	1738.785	3926.344
#3	2427.133	55327.88	13388.33	1744.961	3884.624

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01MS Acquired: 11/8/2024 19:21:20 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8939777	1.918836	.9690281	2.155031	.8787714	2.108928
Stddev	.0082110	.029122	.0065856	.020940	.0075020	.002903
%RSD	.9184749	1.517668	.6796123	.9716771	.8536977	.1376497
#1	.8849578	1.885806	.9617901	2.131813	.8702751	2.105577
#2	.8959578	1.929887	.9706276	2.160795	.8844826	2.110531
#3	.9010176	1.940815	.9746667	2.172485	.8815565	2.110676

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3618358	.1993489	.1963363	148.0047	.3816969	.2015734
Stddev	.0005536	.0008674	.0015677	.7756	.0003889	.0014507
%RSD	.1529908	.4350970	.7984522	.5240114	.1018827	.7196737
#1	.3614766	.1983500	.1946237	148.5147	.3812526	.1999377
#2	.3615574	.1999105	.1966849	148.3871	.3818622	.2020784
#3	.3624733	.1997863	.1977003	147.1121	.3819757	.2027040

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3051200	3.535690	.2125228	55.54130	.6103589	.0826128
Stddev	.0016999	.021956	.0008000	.26106	.0047062	.0000162
%RSD	.5571320	.6209915	.3764252	.4700298	.7710506	.0196425
#1	.3032475	3.556605	.2126422	55.75989	.6055342	.0825974
#2	.3055462	3.537641	.2132565	55.61177	.6106057	.0826297
#3	.3065663	3.512823	.2116699	55.25224	.6149369	.0826114

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	637.9565	.3374973	.2901972	49.01381	.8678048	.4312034
Stddev	6.2690	.0024340	.0008531	.18912	.0042740	.0039801
%RSD	.9826753	.7211882	.2939687	.3858586	.4925121	.9230211
#1	644.4778	.3390219	.2892693	49.21761	.8629330	.4269077
#2	637.4171	.3387798	.2903748	48.84395	.8709236	.4319366
#3	631.9746	.3346903	.2909475	48.97988	.8695579	.4347659

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01MS Acquired: 11/8/2024 19:21:20 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6930484	.1933008	F 15.16950	7.169494	F 48.96761	.2360939
Stddev	.0078066	.0008392	.08384	.054940	.44991	.0007660
%RSD	1.126412	.4341519	.5526712	.7663030	.9187939	.3244477
#1	.6844893	.1938792	15.25996	7.112070	48.44810	.2357577
#2	.6948788	.1936850	15.09441	7.174855	49.22883	.2369705
#3	.6997772	.1923383	15.15413	7.221557	49.22591	.2355536

Elem	Sr4077
Units	ppm
Avg	1.557614
Stddev	.011837
%RSD	.7599656
#1	1.554920
#2	1.570566
#3	1.547356

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2133.668	49453.31	12482.43	1541.588	3261.271
Stddev	18.568	129.87	31.07	7.085	28.346
%RSD	.8702569	.2626183	.2489078	.4595644	.8691590
#1	2155.083	49355.49	12518.07	1537.028	3293.772
#2	2123.880	49600.66	12461.04	1549.750	3248.373
#3	2122.042	49403.79	12468.20	1537.987	3241.669

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01MSD Acquired: 11/8/2024 19:25:35 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8869327	1.834823	.9468272	2.135016	.8702988	2.067379
Stddev	.0019572	.020892	.0019708	.010186	.0059667	.010612
%RSD	.2206712	1.138659	.2081471	.4770913	.6855863	.5133299
#1	.8848226	1.813377	.9463319	2.123362	.8643541	2.057134
#2	.8872867	1.835977	.9489984	2.139469	.8702552	2.066679
#3	.8886887	1.855114	.9451513	2.142218	.8762872	2.078324

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3539569	.1928142	.1910337	144.3884	.3720884	.1958952
Stddev	.0004969	.0013423	.0002694	.2344	.0009181	.0005643
%RSD	.1403841	.6961750	.1410211	.1623153	.2467459	.2880439
#1	.3539472	.1929120	.1908379	144.6213	.3718453	.1957979
#2	.3544586	.1914257	.1913410	144.3913	.3713163	.1965018
#3	.3534649	.1941050	.1909224	144.1526	.3731036	.1953859

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2996111	3.492236	.2065904	54.16949	.5940261	.0821072
Stddev	.0009001	.014093	.0004329	.03790	.0001815	.0000865
%RSD	.3004096	.4035508	.2095508	.0699716	.0305599	.1053995
#1	.2987353	3.504532	.2070452	54.16374	.5939536	.0822071
#2	.2995645	3.495320	.2065429	54.20994	.5942326	.0820552
#3	.3005336	3.476857	.2061833	54.13478	.5938920	.0820594

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	647.4876	.3299357	.2876003	49.06413	.8424705	.4244146
Stddev	1.6035	.0005612	.0016086	.16843	.0039674	.0013549
%RSD	.2476502	.1701035	.5593177	.3432937	.4709278	.3192342
#1	649.0610	.3304992	.2894304	49.04454	.8409165	.4229456
#2	645.8556	.3293767	.2864100	49.24151	.8395153	.4246832
#3	647.5461	.3299311	.2869605	48.90635	.8469797	.4256151

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01MSD Acquired: 11/8/2024 19:25:35 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6709517	.1883191	F 15.15688	6.939806	F 47.79450	.2322083
Stddev	.0015200	.0000896	.04430	.012583	.11727	.0026775
%RSD	.2265429	.0475595	.2922915	.1813147	.2453626	1.153049
#1	.6720391	.1882176	15.18424	6.951788	47.66072	.2291174
#2	.6716010	.1883532	15.18063	6.940933	47.84320	.2338118
#3	.6692148	.1883867	15.10577	6.926698	47.87957	.2336958

Elem	Sr4077
Units	ppm
Avg	1.522658
Stddev	.007492
%RSD	.4920178
#1	1.520438
#2	1.516527
#3	1.531009

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2123.015	49339.39	12698.98	1514.009	3276.103
Stddev	8.115	73.84	34.56	5.937	7.193
%RSD	.3822517	.1496567	.2721730	.3921574	.2195524
#1	2131.051	49301.20	12719.53	1516.891	3284.072
#2	2123.171	49292.46	12718.33	1507.181	3274.148
#3	2114.823	49424.50	12659.08	1517.955	3270.090

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01A Acquired: 11/8/2024 19:29:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8921361	1.845572	.9328175	2.158359	.8754092	2.094372
Stddev	.0028971	.015196	.0012950	.006975	.0019831	.039422
%RSD	.3247347	.8233936	.1388259	.3231838	.2265326	1.882262
#1	.8916204	1.857016	.9343122	2.158265	.8738845	2.136225
#2	.8952564	1.851370	.9321073	2.165380	.8776511	2.057944
#3	.8895316	1.828330	.9320329	2.151431	.8746921	2.088948

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3578472	.1892421	.1887522	143.4163	.3666509	.1935645
Stddev	.0082351	.0019808	.0003802	2.5591	.0016034	.0002878
%RSD	2.301284	1.046679	.2014145	1.784374	.4373045	.1486996
#1	.3673268	.1915233	.1890860	146.3693	.3682403	.1936863
#2	.3524603	.1879583	.1883384	142.0332	.3650339	.1937714
#3	.3537544	.1882448	.1888322	141.8464	.3666786	.1932358

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2997265	3.494316	.2060391	53.72280	.5876210	.0819810
Stddev	.0004935	.030492	.0049055	.90166	.0002740	.0004708
%RSD	.1646434	.8726115	2.380841	1.678350	.0466345	.5743294
#1	.2995328	3.529033	.2117014	54.75938	.5874032	.0823973
#2	.3002875	3.482035	.2030745	53.28882	.5875312	.0814700
#3	.2993593	3.471879	.2033415	53.12021	.5879287	.0820758

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	656.6956	.3289194	.2883410	49.88313	.8371712	.4255039
Stddev	3.5458	.0054691	.0002823	.41663	.0062149	.0011579
%RSD	.5399469	1.662747	.0979049	.8352221	.7423741	.2721175
#1	660.2457	.3348286	.2886590	50.33432	.8441948	.4264068
#2	656.6869	.3240356	.2881200	49.51295	.8349351	.4259065
#3	653.1541	.3278940	.2882440	49.80211	.8323837	.4241985

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4733-01A Acquired: 11/8/2024 19:29:50 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6637677	.1899566	F 15.24528	6.766007	F 47.13217	.2364077
Stddev	.0006286	.0036859	.08684	.018217	.09100	.0050572
%RSD	.0947028	1.940392	.5696004	.2692452	.1930785	2.139190
#1	.6631412	.1941769	15.34073	6.786970	47.23529	.2420520
#2	.6643984	.1883240	15.17094	6.754013	47.09811	.2322887
#3	.6637636	.1873690	15.22419	6.757038	47.06311	.2348824

Elem	Sr4077
Units	ppm
Avg	1.544408
Stddev	.032111
%RSD	2.079145
#1	1.580335
#2	1.518505
#3	1.534385

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2091.345	49032.73	12673.04	1476.735	3253.133
Stddev	5.603	114.72	156.21	1.981	2.325
%RSD	.2679037	.2339748	1.232592	.1341144	.0714690
#1	2095.389	48931.61	12492.67	1475.941	3253.592
#2	2084.949	49157.40	12763.82	1478.989	3250.612
#3	2093.695	49009.19	12762.62	1475.275	3255.193

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164758BL Acquired: 11/8/2024 19:34:06 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001154	-.001463	.0000475	.0005284	-.000374	-.000547	-.005107
Stddev	.001598	.001748	.0005704	.0002359	.000763	.004285	.000384
%RSD	138.5439	119.4695	1200.721	44.64831	203.8247	782.7196	7.509867
#1	-.002075	-.001045	-.000074	.0008006	-.000720	.003347	-.005487
#2	.000692	.000038	-.000453	.0004002	-.000903	-.005138	-.005115
#3	-.002079	-.003383	.000669	.0003843	.000500	.000148	-.004720

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000463	-.000023	.0024026	-.000025	.0000091	-.000217	-.001660
Stddev	.0000302	.000017	.0055403	.000251	.0001284	.000208	.000515
%RSD	65.13269	71.76487	230.5976	1014.948	1405.768	95.55516	31.03572
#1	.0000808	-.000024	-.003994	-.000306	.0000362	-.000118	-.002185
#2	.0000245	-.000039	.005508	.000177	.0001218	-.000456	-.001639
#3	.0000337	-.000006	.005693	.000054	-.000131	-.000078	-.001156

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000079	.0055765	-.000039	.0006904	.1863419	.0001563	-.000209
Stddev	.000053	.0087819	.000127	.0001167	.0140103	.0000867	.000249
%RSD	66.91091	157.4802	328.7101	16.90946	7.518599	55.45866	118.6928
#1	-.000041	-.002357	.000108	.0005824	.1766168	.0002360	-.000286
#2	-.000139	.015013	-.000098	.0006746	.1800083	.0001689	.000068
#3	-.000056	.004073	-.000125	.0008143	.2024007	.0000640	-.000411

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0390371	.0003283	.0002484	-.000209	.0002945	-.004474	-.006078
Stddev	.0134443	.0000638	.0001251	.000150	.0002550	.002292	.001383
%RSD	34.43988	19.44672	50.36306	71.61930	86.59022	51.23882	22.75902
#1	.0479258	.0002870	.0001930	-.000076	.0004325	-.002047	-.007172
#2	.0456151	.0004019	.0001606	-.000180	.0004507	-.004772	-.006538
#3	.0235703	.0002962	.0003917	-.000371	.0000002	-.006602	-.004523

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164758BL Acquired: 11/8/2024 19:34:06 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0019983	-.001796	.0000155
Stddev	.0018139	.001143	.0000102
%RSD	90.77334	63.61924	65.88046
#1	.0029638	-.000990	.0000272
#2	-.000094	-.001294	.0000104
#3	.003125	-.003104	.0000088

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2578.070	58380.15	13506.05	1824.997	4456.054
Stddev	8.909	89.79	40.45	3.278	3.949
%RSD	.3455599	.1537996	.2995058	.1796229	.0886184
#1	2567.838	58322.95	13460.64	1822.621	4451.641
#2	2584.104	58483.64	13519.31	1828.737	4457.269
#3	2582.269	58333.86	13538.21	1823.633	4459.253

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164758BS Acquired: 11/8/2024 19:38:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7968579	2.014500	.9590939	1.988764	.7894644	2.012458
Stddev	.0024492	.019377	.0006653	.005530	.0029411	.001554
%RSD	.3073526	.9618531	.0693678	.2780787	.3725385	.0772109
#1	.7950317	1.993154	.9591335	1.983559	.7860993	2.010663
#2	.7959010	2.019367	.9584097	1.994571	.7907507	2.013351
#3	.7996411	2.030978	.9597385	1.988162	.7915432	2.013358

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1901866	.1986132	.1850797	1.011168	.3731436	.1917251
Stddev	.0005902	.0006826	.0001886	.017596	.0009013	.0001152
%RSD	.3103317	.3436632	.1018927	1.740185	.2415473	.0600646
#1	.1898371	.1986582	.1851751	.992125	.3722308	.1917753
#2	.1898546	.1979092	.1848625	1.014554	.3731671	.1915934
#3	.1908680	.1992721	.1852015	1.026826	.3740329	.1918067

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3092479	2.803238	.1941258	1.905859	.4796417	.0744208
Stddev	.0006819	.012551	.0015887	.024860	.0011981	.0000898
%RSD	.2205199	.4477278	.8183862	1.304416	.2497836	.1206887
#1	.3084669	2.789185	.1937861	1.901301	.4803822	.0743179
#2	.3097255	2.813334	.1927344	1.883593	.4782595	.0744613
#3	.3095514	2.807194	.1958569	1.932683	.4802834	.0744833

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.796970	.2953096	.2101329	9.612285	.2880272	.4034916
Stddev	.046125	.0006963	.0005391	.062938	.0008941	.0008770
%RSD	1.649118	.2357992	.2565714	.6547658	.3104094	.2173567
#1	2.745540	.2945236	.2096602	9.549873	.2890085	.4024929
#2	2.810695	.2955561	.2100184	9.675736	.2878142	.4038457
#3	2.834676	.2958492	.2107201	9.611246	.2872589	.4041362

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164758BS Acquired: 11/8/2024 19:38:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6531093	.1918440	F .6817466	5.612119	F -.007204	.1832799
Stddev	.0001069	.0008125	.0025991	.011793	.001826	.0022378
%RSD	.0163729	.4235110	.3812410	.2101315	25.33914	1.220981
#1	.6531735	.1919032	.6838564	5.602972	-.007265	.1807115
#2	.6531685	.1910035	.6788432	5.607956	-.008999	.1848099
#3	.6529858	.1926253	.6825402	5.625429	-.005349	.1843183

Elem	Sr4077
Units	ppm
Avg	.2024103
Stddev	.0003431
%RSD	.1694965
#1	.2021519
#2	.2022796
#3	.2027996

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2581.629	58182.92	13291.92	1844.998	4311.627
Stddev	10.820	102.42	53.98	4.441	11.036
%RSD	.4191113	.1760298	.4061387	.2406872	.2559489
#1	2593.543	58292.47	13261.29	1848.486	4322.385
#2	2578.931	58166.70	13354.25	1846.509	4312.164
#3	2572.413	58089.57	13260.21	1839.999	4300.333

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04 Acquired: 11/8/2024 19:42:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006412	-.027703	.0012314	.0025783	.0028882	.7775422
Stddev	.006307	.003387	.0013280	.0029862	.0023016	.0049048
%RSD	98.35968	12.22648	107.8415	115.8202	79.69037	.6308056
#1	-.005518	-.029752	.0024022	.0013958	.0032078	.7718905
#2	-.013117	-.029564	-.000212	.0059747	.0050134	.7806849
#3	-.000600	-.023793	.001504	.0003645	.0004435	.7800512

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0687633	-.000025	.0003754	411.3793	.0035599	-.001084
Stddev	.0015336	.000104	.0000355	2.0448	.0008857	.000528
%RSD	2.230200	409.9559	9.452448	.4970536	24.88042	48.68041
#1	.0669989	.000040	.0003609	409.0712	.0042783	-.001669
#2	.0695151	.000030	.0004158	412.9642	.0038310	-.000938
#3	.0697758	-.000145	.0003494	412.1024	.0025703	-.000645

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031221	1.042148	.1393802	1256.756	.0016234	.0003980
Stddev	.0002413	.021956	.0013544	9.557	.0002457	.0009481
%RSD	7.727459	2.106826	.9717540	.7604620	15.13678	238.2193
#1	.0030577	1.029383	.1378472	1247.289	.0013449	-.000679
#2	.0029195	1.029561	.1404149	1256.576	.0017156	.001107
#3	.0033890	1.067501	.1398785	1266.401	.0018097	.000766

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.0073096	.0396804	850.8123	4.285924	.0143147
Stddev	-----	.0007279	.0006985	11.9133	.028013	.0002198
%RSD	-----	9.957665	1.760315	1.400230	.6536136	1.535596
#1	^ -----	.0068805	.0402160	858.2759	4.253860	.0141165
#2	^ -----	.0081500	.0388904	837.0731	4.305656	.0142765
#3	^ -----	.0068983	.0399349	857.0879	4.298255	.0145512

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04 Acquired: 11/8/2024 19:42:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008377	.0150159	6.173598	.6458488	F 1086.285	.4267394
Stddev	.001252	.0038993	.034436	.0047942	4.145	.0041498
%RSD	14.94264	25.96755	.5577874	.7423038	.3815965	.9724424
#1	-.008319	.0121854	6.156426	.6513592	1085.073	.4225481
#2	-.009657	.0133987	6.151126	.6426341	1082.880	.4308464
#3	-.007156	.0194636	6.213243	.6435532	1090.901	.4268238

Elem	Sr4077
Units	ppm
Avg	8.980490
Stddev	.096449
%RSD	1.073984
#1	8.870193
#2	9.048993
#3	9.022284

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1125.247	28325.47	9051.778	808.5309	1552.147
Stddev	6.230	145.17	48.082	5.4555	7.916
%RSD	.5536527	.5125040	.5311845	.6747429	.5100350
#1	1132.427	28335.58	9099.925	803.9815	1561.259
#2	1122.043	28465.31	9003.762	814.5792	1548.223
#3	1121.271	28175.51	9051.647	807.0322	1546.960

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV07 Acquired: 11/8/2024 19:47:09 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.061371	5.052034	4.907631	5.214132	5.179161	10.06217	9.517518
Stddev	.013324	.049996	.001986	.007467	.008787	.01072	.148717
%RSD	.2632479	.9896114	.0404706	.1432023	.1696668	.1065730	1.562563
#1	5.046152	5.003760	4.905798	5.208050	5.171603	10.07439	9.663479
#2	5.070934	5.103590	4.907354	5.211880	5.177077	10.05432	9.522884
#3	5.067027	5.048753	4.909741	5.222465	5.188803	10.05780	9.366190

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2425284	2.400152	24.01883	.9204770	2.442704	1.278420	4.709694
Stddev	.0004162	.002271	.06558	.0026766	.001457	.000885	.027383
%RSD	.1716147	.0946309	.2730319	.2907886	.0596660	.0692251	.5814206
#1	.2427578	2.397530	24.09344	.9179570	2.441546	1.277494	4.707382
#2	.2420479	2.401512	23.97033	.9201871	2.444341	1.279257	4.683540
#3	.2427794	2.401414	23.99272	.9232867	2.442225	1.278510	4.738159

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.310645	24.14109	2.440012	1.246221	24.63459	2.441017	2.584351
Stddev	.009283	.03043	.001698	.002074	.22431	.004497	.002290
%RSD	.4017284	.1260406	.0695954	.1664588	.9105418	.1842129	.0885914
#1	2.320509	24.17099	2.438057	1.244878	24.85087	2.442763	2.583000
#2	2.309346	24.14213	2.440854	1.245174	24.64987	2.444379	2.583059
#3	2.302081	24.11016	2.441124	1.248610	24.40304	2.435909	2.586995

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.95883	4.826358	5.110450	4.812839	4.748945	4.936156	5.038366
Stddev	.04409	.015335	.008302	.004706	.008585	.032326	.003988
%RSD	.1766375	.3177411	.1624432	.0977879	.1807765	.6548720	.0791570
#1	24.91002	4.843822	5.100865	4.807922	4.758574	4.901847	5.037763
#2	24.97071	4.815091	5.115128	4.817302	4.746168	4.940580	5.042621
#3	24.99577	4.820161	5.115357	4.813293	4.742091	4.966042	5.034713

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV07 Acquired: 11/8/2024 19:47:09 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.843201	4.604244	4.915062
Stddev	.001374	.024515	.037789
%RSD	.0283724	.5324414	.7688468
#1	4.843276	4.618714	4.950507
#2	4.844535	4.618080	4.875300
#3	4.841790	4.575939	4.919378

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2425.321	55174.43	13203.90	1702.780	3884.135
Stddev	.574	92.58	43.01	6.278	.406
%RSD	.0236483	.1677872	.3257164	.3686895	.0104438
#1	2424.843	55144.50	13155.79	1696.170	3884.587
#2	2425.957	55278.27	13217.28	1708.663	3884.015
#3	2425.161	55100.53	13238.63	1703.505	3883.803

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB07 Acquired: 11/8/2024 19:51:20 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000474	.0005910	.0002382	.0004463	.0005251	.0030741
Stddev	.002341	.0005140	.0005580	.0018596	.0008907	.0050155
%RSD	493.6805	86.97687	234.3045	416.6604	169.6240	163.1512
#1	.002097	.0011316	.0008676	.0019202	.0005528	.0059164
#2	-.001037	.0001085	-.000196	-.001643	-.000379	-.002717
#3	-.002483	.0005328	.000043	.001062	.001402	.006023

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005042	-.000005	-.000004	.0023984	-.000084	.0000484
Stddev	.000267	.000029	.000159	.0042360	.000179	.0000099
%RSD	5.289838	593.8783	3845.596	176.6147	212.3487	20.53160
#1	-.005161	.000003	-.000186	-.002407	.000065	.0000589
#2	-.004737	-.000037	.000110	.005590	-.000035	.0000471
#3	-.005229	.000019	.000063	.004012	-.000283	.0000392

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000150	-.001645	-.000027	.0210697	.0000894	.0008959
Stddev	.0000304	.000367	.000174	.0035361	.0001462	.0001964
%RSD	202.2205	22.30433	650.0307	16.78271	163.5957	21.92676
#1	-.000020	-.002067	-.000121	.0187601	-.000049	.0011157
#2	.000034	-.001405	-.000134	.0251406	.000243	.0008343
#3	.000031	-.001462	.000174	.0193085	.000074	.0007376

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9407534	.0001458	.0001244	.1424655	.0033650	.0004369
Stddev	.0407084	.0012235	.0001180	.0225310	.0004652	.0001372
%RSD	4.327214	839.4218	94.89535	15.81503	13.82445	31.40341
#1	.9043657	-.001258	.0000046	.1671754	.0038704	.0005912
#2	.9331766	.000987	.0002405	.1371608	.0029548	.0003284
#3	.9847179	.000708	.0001280	.1230601	.0032698	.0003912

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB07 Acquired: 11/8/2024 19:51:20 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000958	.0000694	.0007808	-.004576	F .0178026	-.002290
Stddev	.000535	.0001609	.0028135	.002842	.0012976	.000145
%RSD	55.80018	231.7697	360.3531	62.10752	7.289024	6.315633
#1	-.001572	.0002551	.0015049	-.002930	.0192978	-.002160
#2	-.000710	-.000016	.0031615	-.002941	.0169707	-.002265
#3	-.000593	-.000030	-.002324	-.007858	.0171393	-.002446

Elem	Sr4077
Units	ppm
Avg	.0001413
Stddev	.0000222
%RSD	15.72964
#1	.0001387
#2	.0001205
#3	.0001647

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2593.748	56635.04	13640.79	1779.883	4491.582
Stddev	2.141	19.74	20.52	8.285	3.577
%RSD	.0825515	.0348590	.1504435	.4655048	.0796291
#1	2591.532	56627.69	13625.22	1781.285	4495.267
#2	2593.907	56620.03	13633.09	1770.986	4488.125
#3	2595.806	56657.40	13664.04	1787.378	4491.355

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04DUP Acquired: 11/8/2024 19:55:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003729	-.025396	.0014252	.0004855	.0065479	.7898245
Stddev	.005721	.001882	.0041021	.0047277	.0031347	.0119624
%RSD	153.4291	7.410545	287.8318	973.8495	47.87356	1.514561
#1	-.008532	-.027157	-.001851	.0056552	.0082079	.7954853
#2	.002600	-.025618	.006026	-.003618	.0029323	.7979057
#3	-.005254	-.023413	.000100	-.000581	.0085034	.7760824

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0672373	-.000085	.0004444	402.5788	.0022979	-.001062
Stddev	.0003114	.000046	.0002640	3.9348	.0012720	.000513
%RSD	.4630540	53.83566	59.41094	.9774096	55.35373	48.31716
#1	.0670305	-.000130	.0001459	406.1491	.0037448	-.001616
#2	.0670862	-.000039	.0005400	398.3600	.0017931	-.000604
#3	.0675954	-.000085	.0006473	403.2274	.0013558	-.000965

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043958	1.022313	.1357060	1230.732	.0009364	.0008566
Stddev	.0003529	.018301	.0011736	7.722	.0004106	.0000175
%RSD	8.029008	1.790141	.8648436	.6274284	43.85324	2.038752
#1	.0047874	1.004095	.1369386	1239.425	.0008524	.0008382
#2	.0042979	1.040696	.1355775	1228.103	.0005742	.0008729
#3	.0041022	1.022148	.1346019	1224.667	.0013825	.0008588

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.0076698	.0391592	844.2893	4.214687	.0152749
Stddev	-----	.0018955	.0004601	5.7500	.028199	.0002464
%RSD	-----	24.71427	1.174952	.6810458	.6690672	1.613333
#1	^ -----	.0073356	.0387375	842.6256	4.239795	.0155358
#2	^ -----	.0097102	.0390902	839.5546	4.220086	.0152427
#3	^ -----	.0059636	.0396499	850.6877	4.184178	.0150461

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04DUP Acquired: 11/8/2024 19:55:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006757	.0137186	6.240536	.6202950	F 1054.780	.4295154
Stddev	.001863	.0007910	.008093	.0062933	.816	.0022664
%RSD	27.56850	5.766184	.1296866	1.014559	.0773622	.5276631
#1	-.007597	.0135058	6.231824	.6249085	1054.869	.4282973
#2	-.004622	.0145943	6.247820	.6131260	1053.923	.4321303
#3	-.008051	.0130558	6.241965	.6228506	1055.548	.4281184

Elem	Sr4077
Units	ppm
Avg	8.854353
Stddev	.053601
%RSD	.6053622
#1	8.854222
#2	8.908019
#3	8.800818

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1113.845	28320.66	9095.728	798.2447	1549.476
Stddev	4.712	54.37	60.894	2.9414	5.933
%RSD	.4230599	.1919704	.6694747	.3684852	.3829254
#1	1115.916	28375.90	9036.391	801.4629	1552.280
#2	1117.167	28267.21	9092.725	797.5758	1553.488
#3	1108.452	28318.86	9158.067	795.6953	1542.660

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04LX5 Acquired: 11/8/2024 20:00:21 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010928	-.005306	-.000950	.0024775	-.000766	.1124801
Stddev	.0005879	.001656	.000777	.0024518	.001352	.0017593
%RSD	53.80224	31.21849	81.76346	98.96213	176.6361	1.564075
#1	.0004199	-.004716	-.000426	.0006149	-.002135	.1105923
#2	.0015074	-.004025	-.000582	.0015623	-.000732	.1140738
#3	.0013509	-.007176	-.001843	.0052552	.000569	.1127740

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088305	.0000176	-.000055	92.43950	.0005529	-.000235
Stddev	.0004116	.0000249	.000074	1.56185	.0002252	.000131
%RSD	4.661061	141.0776	134.5952	1.689597	40.74095	55.94851
#1	.0088719	.0000126	.000005	94.20112	.0005489	-.000261
#2	.0092199	-.000004	-.000138	91.89321	.0003296	-.000351
#3	.0083998	.000045	-.000033	91.22416	.0007801	-.000092

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004215	.2020022	.0301173	292.9571	.0007986	.0004418
Stddev	.0002070	.0042524	.0005955	4.6168	.0001795	.0000771
%RSD	49.10585	2.105134	1.977330	1.575917	22.47703	17.45626
#1	.0001854	.2006452	.0307948	298.0858	.0006373	.0003539
#2	.0005716	.2067675	.0298804	291.6522	.0009920	.0004980
#3	.0005075	.1985939	.0296767	289.1332	.0007666	.0004735

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2019.270	.0015297	.0062464	111.6751	.9459739	.0028635
Stddev	40.811	.0013887	.0004080	.7495	.0179579	.0002342
%RSD	2.021053	90.78319	6.531837	.6711410	1.898351	8.179332
#1	2062.831	.0030781	.0066880	112.3504	.9655516	.0031028
#2	2013.057	.0011160	.0058833	111.8063	.9421029	.0028531
#3	1981.923	.0003948	.0061680	110.8687	.9302672	.0026348

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04LX5 Acquired: 11/8/2024 20:00:21 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003913	.0049290	.9279162	.0938139	F 231.3908	.0584992
Stddev	.000848	.0020330	.0067779	.0033674	1.0083	.0014776
%RSD	21.66863	41.24600	.7304422	3.589492	.4357593	2.525885
#1	-.003114	.0034823	.9356079	.0919398	230.5229	.0599398
#2	-.004803	.0072534	.9253226	.0977014	231.1526	.0585708
#3	-.003821	.0040513	.9228182	.0918004	232.4969	.0569871

Elem	Sr4077
Units	ppm
Avg	1.772716
Stddev	.039734
%RSD	2.241430
#1	1.812562
#2	1.772491
#3	1.733094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1997.898	43871.02	11734.59	1398.823	2873.835
Stddev	1.945	172.85	199.33	7.536	5.970
%RSD	.0973754	.3939967	1.698622	.5387670	.2077479
#1	1999.677	43768.75	11511.54	1395.870	2880.678
#2	1995.821	43773.72	11796.94	1393.209	2871.138
#3	1998.197	44070.59	11895.29	1407.388	2869.688

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04MS Acquired: 11/8/2024 20:04:55 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.098971	1.628741	.8715341	2.734898	1.124864	3.337732
Stddev	.010833	.005149	.0029894	.028103	.010327	.048789
%RSD	.9857501	.3161037	.3430016	1.027585	.9180486	1.461728
#1	1.105082	1.626441	.8714933	2.762854	1.135574	3.337429
#2	1.105368	1.625143	.8685653	2.735192	1.124049	3.386672
#3	1.086463	1.634639	.8745436	2.706649	1.114968	3.289096

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2675299	.2296810	.1747574	419.1717	.3143644	.1839365
Stddev	.0023360	.0011053	.0002210	7.8759	.0020797	.0014878
%RSD	.8731710	.4812179	.1264346	1.878922	.6615537	.8088840
#1	.2655672	.2288379	.1747067	411.4238	.3133510	.1855248
#2	.2701137	.2309323	.1745662	427.1697	.3129856	.1837094
#3	.2669088	.2292729	.1749993	418.9216	.3167565	.1825752

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2509355	4.112253	.3080945	1283.994	.4417949	.1317263
Stddev	.0014555	.075872	.0039388	18.975	.0006163	.0013841
%RSD	.5800356	1.845034	1.278447	1.477792	.1394910	1.050713
#1	.2526132	4.032192	.3035579	1262.099	.4415499	.1304914
#2	.2501828	4.121473	.3106432	1295.635	.4413389	.1314653
#3	.2500104	4.183094	.3100824	1294.248	.4424960	.1332224

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.2890634	.3531561	788.6435	4.562268	.3937047
Stddev	-----	.0036324	.0041984	4.6960	.026936	.0024649
%RSD	-----	1.256614	1.188831	.5954534	.5904052	.6260697
#1	^ -----	.2853188	.3491732	783.2772	4.533746	.3964920
#2	^ -----	.2892992	.3527540	792.0007	4.587272	.3928099
#3	^ -----	.2925721	.3575411	790.6526	4.565788	.3918122

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04MS Acquired: 11/8/2024 20:04:55 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6110810	.2000275	6.892820	9.995382	F 1065.202	.6546473
Stddev	.0050056	.0043786	.028249	.026236	1.706	.0054370
%RSD	.8191454	2.189016	.4098384	.2624806	.1601528	.8305172
#1	.6114295	.1979795	6.894650	10.02406	1067.115	.6580259
#2	.6059102	.2050548	6.863700	9.98950	1064.649	.6575405
#3	.6159033	.1970481	6.920110	9.97259	1063.840	.6483755

Elem	Sr4077
Units	ppm
Avg	8.991638
Stddev	.099546
%RSD	1.107091
#1	8.943255
#2	9.106127
#3	8.925532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1185.384	29283.59	8899.540	857.6812	1617.712
Stddev	14.743	222.53	74.122	12.0820	19.540
%RSD	1.243714	.7599299	.8328764	1.408685	1.207880
#1	1170.391	29492.54	8970.136	870.7186	1597.475
#2	1185.897	29308.65	8822.334	855.4630	1619.190
#3	1199.863	29049.59	8906.150	846.8619	1636.471

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04MSD Acquired: 11/8/2024 20:09:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.140777	1.620006	.8671422	2.850079	1.182634	3.400776
Stddev	.007369	.009813	.0079713	.022810	.005755	.016110
%RSD	.6459774	.6057383	.9192659	.8003239	.4865834	.4737203
#1	1.149179	1.614884	.8728030	2.861595	1.185066	3.383597
#2	1.137743	1.631321	.8705975	2.864835	1.186774	3.403185
#3	1.135409	1.613815	.8580262	2.823807	1.176063	3.415546

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2708988	.2282832	.1739653	424.7799	.3122919	.1835876
Stddev	.0016301	.0010174	.0010616	2.7920	.0019109	.0007191
%RSD	.6017460	.4456861	.6102136	.6572926	.6118878	.3917006
#1	.2697141	.2294468	.1745635	426.0655	.3139727	.1838977
#2	.2702244	.2275608	.1745927	421.5766	.3126894	.1840996
#3	.2727579	.2278421	.1727396	426.6975	.3102135	.1827655

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2549290	4.244532	.3114451	1307.112	.4399125	.1357597
Stddev	.0030962	.033534	.0028273	11.045	.0023652	.0008768
%RSD	1.214522	.7900546	.9077928	.8449988	.5376445	.6458565
#1	.2543750	4.231579	.3123886	1307.728	.4403362	.1347597
#2	.2582648	4.219406	.3082667	1295.771	.4420371	.1363968
#3	.2521473	4.282610	.3136800	1317.835	.4373641	.1361225

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.2896423	.3646027	825.9679	4.604394	.4040197
Stddev	-----	.0032422	.0031028	11.6067	.010667	.0025639
%RSD	-----	1.119372	.8510017	1.405225	.2316596	.6345991
#1	^ -----	.2883273	.3660830	812.8499	4.614476	.4062412
#2	^ -----	.2872642	.3610370	830.1490	4.593226	.4046037
#3	^ -----	.2933354	.3666881	834.9048	4.605481	.4012142

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04MSD Acquired: 11/8/2024 20:09:27 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6116242	.2027906	7.140365	F 10.03289	F 1068.441	.6712553
Stddev	.0031911	.0031052	.050213	.04734	6.492	.0005937
%RSD	.5217346	1.531250	.7032206	.4718730	.6076146	.0884495
#1	.6132993	.2005831	7.101527	10.03494	1070.953	.6719374
#2	.6136290	.2014474	7.122500	10.07917	1073.302	.6708547
#3	.6079444	.2063414	7.197066	9.98455	1061.069	.6709738

Elem	Sr4077
Units	ppm
Avg	9.146564
Stddev	.021221
%RSD	.2320107
#1	9.158494
#2	9.122063
#3	9.159135

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1110.381	28146.34	8701.255	797.3388	1530.843
Stddev	11.724	106.29	36.186	7.4187	15.040
%RSD	1.055848	.3776195	.4158659	.9304355	.9824918
#1	1103.701	28260.18	8699.830	797.8835	1519.093
#2	1103.523	28129.12	8738.132	804.4702	1525.643
#3	1123.918	28049.72	8665.803	789.6627	1547.794

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04A Acquired: 11/8/2024 20:14:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.077202	1.569732	.8669944	2.692043	1.106999	3.314774
Stddev	.031185	.059312	.0350960	.047329	.018964	.068824
%RSD	2.895005	3.778487	4.048001	1.758122	1.713089	2.076295
#1	1.044432	1.517291	.8333760	2.648214	1.090276	3.300625
#2	1.080660	1.557804	.8642057	2.685687	1.103118	3.254124
#3	1.106513	1.634102	.9034015	2.742230	1.127603	3.389574

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2610748	.2210202	.1744205	402.4895	.3016824	.1825318
Stddev	.0053531	.0044775	.0076377	7.7269	.0035274	.0082020
%RSD	2.050404	2.025847	4.378884	1.919772	1.169245	4.493462
#1	.2600931	.2206573	.1673851	398.6794	.3046170	.1749467
#2	.2562804	.2167351	.1733324	397.4077	.3026613	.1814130
#3	.2668507	.2256681	.1825438	411.3815	.2977689	.1912358

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2482872	4.039710	.2951133	1234.478	.4385278	.1332291
Stddev	.0087571	.092199	.0056073	21.443	.0180717	.0034005
%RSD	3.526990	2.282321	1.900054	1.736995	4.120982	2.552358
#1	.2412310	4.026097	.2928814	1221.035	.4215652	.1340749
#2	.2455428	4.137958	.2909656	1223.192	.4364836	.1361268
#3	.2580877	3.955074	.3014929	1259.207	.4575346	.1294855

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.2801250	.3524660	809.6356	4.422690	.3903058
Stddev	-----	.0050954	.0095167	20.8246	.084104	.0125921
%RSD	-----	1.818974	2.700022	2.572095	1.901653	3.226209
#1	^ -----	.2769857	.3545906	803.6121	4.412997	.3787030
#2	^ -----	.2773853	.3607408	832.8080	4.343852	.3885183
#3	^ -----	.2860042	.3420666	792.4867	4.511220	.4036961

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04A Acquired: 11/8/2024 20:14:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6117566	.1922877	6.941892	9.728833	F 1053.269	.6579932
Stddev	.0306985	.0049329	.185353	.328780	42.460	.0150653
%RSD	5.018091	2.565393	2.670067	3.379438	4.031233	2.289580
#1	.5856793	.1912949	6.953467	9.420031	1014.941	.6574605
#2	.6040016	.1879266	7.121187	9.691982	1045.955	.6432013
#3	.6455890	.1976415	6.751023	10.07448	1098.910	.6733177

Elem	Sr4077
Units	ppm
Avg	8.701668
Stddev	.174482
%RSD	2.005157
#1	8.618050
#2	8.584732
#3	8.902223

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1197.622	28678.00	8979.420	818.1434	1634.531
Stddev	14.407	743.67	138.725	28.8390	26.196
%RSD	1.202967	2.593178	1.544922	3.524929	1.602641
#1	1208.680	28551.39	9027.564	816.6932	1656.684
#2	1202.857	28005.76	9087.659	790.0569	1641.291
#3	1181.330	29476.85	8823.037	847.6801	1605.618

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4736-02 Acquired: 11/8/2024 20:18:34 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005001	-.003061	.0511640	.0031637	.0246302	1.687989
Stddev	.001553	.002393	.0011892	.0011034	.0004007	.032756
%RSD	31.05744	78.16454	2.324246	34.87692	1.626914	1.940530
#1	-.006679	-.002026	.0501470	.0042202	.0250676	1.652397
#2	-.004712	-.001360	.0508734	.0032520	.0242807	1.716870
#3	-.003613	-.005797	.0524715	.0020188	.0245423	1.694699

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1532125	.0002718	.0033801	18.30534	.0347673	.0054143
Stddev	.0028675	.0000352	.0001186	.33534	.0004101	.0000492
%RSD	1.871559	12.96641	3.508857	1.831945	1.179476	.9096996
#1	.1499331	.0002348	.0033848	17.93255	.0343245	.0054342
#2	.1552474	.0002756	.0032592	18.58242	.0348432	.0054505
#3	.1544571	.0003049	.0034963	18.40107	.0351341	.0053582

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2158499	16.82741	.1928874	4.676033	.0339443	.0022541
Stddev	.0017494	.10701	.0031772	.075711	.0005590	.0001117
%RSD	.8104879	.6359559	1.647167	1.619121	1.646769	4.956489
#1	.2138725	16.71048	.1896347	4.596818	.0335078	.0021595
#2	.2164809	16.85126	.1959832	4.747669	.0337507	.0022254
#3	.2171964	16.92048	.1930443	4.683614	.0345743	.0023774

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	318.0587	.0049147	.9135091	12.76279	.1050742	.0167505
Stddev	4.0549	.0009333	.0067995	.08230	.0019983	.0002780
%RSD	1.274902	18.98972	.7443306	.6448821	1.901850	1.659401
#1	313.6913	.0038413	.9071111	12.66776	.1028893	.0167421
#2	318.7804	.0055341	.9127671	12.80902	.1068094	.0164769
#3	321.7043	.0053688	.9206492	12.81159	.1055238	.0170326

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4736-02 Acquired: 11/8/2024 20:18:34 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120698	.0563147	F 16.45728	6.016235	F 19.71401	.0205251
Stddev	.0004635	.0004641	.13339	.065247	.20808	.0007889
%RSD	3.840510	.8241529	.8105149	1.084511	1.055480	3.843693
#1	.0115400	.0560587	16.30572	5.946022	19.48620	.0197341
#2	.0124006	.0560350	16.50935	6.027682	19.76181	.0205293
#3	.0122687	.0568505	16.55679	6.075001	19.89403	.0213119

Elem	Sr4077
Units	ppm
Avg	.1327494
Stddev	.0024139
%RSD	1.818391
#1	.1300463
#2	.1346900
#3	.1335118

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2540.835	53216.69	12571.24	1780.126	3867.308
Stddev	16.685	152.92	179.96	6.475	26.825
%RSD	.6566723	.2873575	1.431555	.3637404	.6936278
#1	2559.758	53392.41	12763.67	1779.899	3896.860
#2	2534.506	53143.89	12407.09	1786.712	3860.568
#3	2528.240	53113.77	12542.96	1773.767	3844.495

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164759BL Acquired: 11/8/2024 20:22:53 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001408	.0004583	-.000516	.0021167	.0000851	.0081745
Stddev	.0011515	.0011204	.000362	.0010718	.0000787	.0010315
%RSD	817.7939	244.4548	70.18460	50.63621	92.56357	12.61804
#1	.0005859	-.000628	-.000519	.0026001	.0001027	.0090716
#2	.0010034	.000394	-.000875	.0028616	-.000001	.0084044
#3	-.001167	.001610	-.000152	.0008883	.000154	.0070475

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007673	.0000355	.0000219	.0052190	-.000058	-.000031
Stddev	.0002049	.0000481	.0000499	.0031535	.000331	.000150
%RSD	26.70505	135.5553	228.1162	60.42275	574.0604	480.9461
#1	.0006764	.0000728	.0000099	.0078257	-.000362	-.000032
#2	.0006235	.0000523	.0000766	.0061175	-.000105	.000119
#3	.0010019	-.000019	-.000021	.0017138	.000294	-.000181

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000195	.0025095	-.000095	.0427491	-.000102	.0007856
Stddev	.000226	.0020710	.000103	.0098165	.000177	.0002690
%RSD	115.5347	82.52597	108.7749	22.96299	172.9045	34.23770
#1	-.000031	.0047718	-.000066	.0329641	-.000301	.0009615
#2	-.000452	.0007073	-.000009	.0426865	.000035	.0009194
#3	-.000103	.0020494	-.000210	.0525968	-.000039	.0004760

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.391967	-.000382	-.000174	.2939222	.0049642	.0000377
Stddev	.112320	.000605	.000056	.0147148	.0003283	.0002008
%RSD	4.695709	158.2232	32.19829	5.006345	6.612556	532.7021
#1	2.268888	-.001067	-.000196	.2866675	.0053140	.0002204
#2	2.418089	-.000159	-.000216	.2842436	.0046628	-.000177
#3	2.488924	.000079	-.000110	.3108556	.0049159	.000070

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164759BL Acquired: 11/8/2024 20:22:53 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000409	.0003515	.0008207	-.009972	F .0599139	.0009482
Stddev	.000213	.0004735	.0021782	.002104	.0011333	.0014923
%RSD	52.04661	134.7102	265.3871	21.10022	1.891547	157.3759
#1	-.000357	.0003257	-.000269	-.012110	.0586122	-.000679
#2	-.000643	.0008375	.003329	-.007904	.0604486	.002252
#3	-.000227	-.000109	-.000598	-.009901	.0606809	.001272

Elem	Sr4077
Units	ppm
Avg	.0002058
Stddev	.0000277
%RSD	13.47128
#1	.0001752
#2	.0002130
#3	.0002292

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2949.405	62842.03	13066.04	2082.802	4842.878
Stddev	2.468	218.87	9.04	9.867	9.111
%RSD	.0836845	.3482886	.0692025	.4737338	.1881304
#1	2946.568	62590.84	13076.45	2073.156	4832.394
#2	2950.593	62991.74	13060.07	2092.876	4847.361
#3	2951.055	62943.51	13061.61	2082.373	4848.879

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164759BS Acquired: 11/8/2024 20:27:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7508305	1.995619	.9722721	1.834328	.7428220	1.971042
Stddev	.0009754	.007133	.0006872	.008284	.0031894	.010028
%RSD	.1299079	.3574258	.0706798	.4515951	.4293700	.5087556
#1	.7512812	2.001926	.9717346	1.834065	.7391423	1.962483
#2	.7497113	1.987878	.9730464	1.826178	.7447947	1.968566
#3	.7514991	1.997052	.9720353	1.842739	.7445289	1.982075

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1839348	.2221564	.1909754	1.071067	.3860594	.1942203
Stddev	.0003888	.0011135	.0007356	.008511	.0035344	.0004203
%RSD	.2113726	.5012313	.3851719	.7946434	.9155119	.2164122
#1	.1837173	.2226533	.1902860	1.062431	.3829309	.1937390
#2	.1837033	.2208809	.1908905	1.071324	.3898933	.1944071
#3	.1843836	.2229349	.1917498	1.079448	.3853539	.1945149

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2932315	2.709319	.1994473	2.090771	.4868139	.0740840
Stddev	.0009866	.016578	.0013307	.007523	.0014037	.0004367
%RSD	.3364543	.6118744	.6672022	.3598411	.2883483	.5894161
#1	.2921662	2.699416	.1980598	2.082435	.4853286	.0736978
#2	.2934148	2.728457	.1995692	2.097058	.4869944	.0745578
#3	.2941136	2.700082	.2007129	2.092819	.4881186	.0739965

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 3.951931	.2992416	.2050400	8.804325	.3121720	.3954271
Stddev	.028377	.0019505	.0011070	.037892	.0014914	.0010379
%RSD	.7180559	.6517972	.5398874	.4303845	.4777584	.2624797
#1	3.923135	.2970043	.2058373	8.765678	.3130609	.3945648
#2	3.979870	.3001363	.2037761	8.805882	.3104501	.3951374
#3	3.952788	.3005842	.2055066	8.841415	.3130049	.3965790

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164759BS Acquired: 11/8/2024 20:27:13 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6801737	.1943335	F .6502220	5.763907	F .0375664	.1671457
Stddev	.0038470	.0011068	.0036045	.014255	.0037832	.0010101
%RSD	.5655921	.5695323	.5543561	.2473182	10.07078	.6043318
#1	.6764608	.1931842	.6501866	5.752264	.0419194	.1667712
#2	.6799181	.1944241	.6538440	5.759651	.0357080	.1663763
#3	.6841421	.1953922	.6466352	5.779805	.0350718	.1682895

Elem	Sr4077
Units	ppm
Avg	.1930655
Stddev	.0006293
%RSD	.3259678
#1	.1924309
#2	.1930762
#3	.1936894

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2806.374	58975.34	12383.13	1992.191	4509.071
Stddev	3.280	135.25	50.55	10.326	3.125
%RSD	.1168906	.2293313	.4082498	.5183001	.0693062
#1	2809.505	59018.59	12344.55	1980.307	4512.673
#2	2802.962	58823.76	12440.36	1997.303	4507.095
#3	2806.657	59083.68	12364.49	1998.963	4507.443

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: LR1 Acquired: 11/8/2024 20:38:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0279571	-.022846	.0498989	-.247816	-.003681	2172.019	.0172824
Stddev	.0097920	.004363	.0035300	.007939	.010181	3.485	.0004228
%RSD	35.02515	19.09794	7.074390	3.203455	276.6116	.1604557	2.446492
#1	.0278399	-.027547	.0484732	-.256319	-.002512	2171.283	.0168725
#2	.0182243	-.022066	.0539188	-.246530	-.014396	2168.961	.0172579
#3	.0378073	-.018926	.0473046	-.240599	.005866	2175.813	.0177170

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125681	.1759305	1672.298	-.001180	.0424663	.0342412	939.0888
Stddev	.0001999	.0010915	5.139	.001166	.0001986	.0060583	5.9712
%RSD	1.590801	.6204360	.3073038	98.80834	.4675942	17.69293	.6358515
#1	.0127118	.1747493	1677.084	.000141	.0423730	.0275233	945.6785
#2	.0123398	.1761402	1666.867	-.002065	.0423315	.0359103	937.5512
#3	.0126527	.1769020	1672.944	-.001618	.0426943	.0392899	934.0368

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.107416	1873.099	.0147570	-.027285	2012.916	.0711136	.2803678
Stddev	.000229	6.361	.0011393	.001666	17.527	.0017860	.0009479
%RSD	.2130464	.3395785	7.720673	6.107188	.8707481	2.511439	.3380758
#1	-.107174	1880.441	.0158497	-.025369	2032.345	.0722032	.2813497
#2	-.107629	1869.254	.0148452	-.028083	1998.293	.0720851	.2802956
#3	-.107445	1869.603	.0135761	-.028402	2008.110	.0690525	.2794581

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1293.443	.2285480	-.006756	.0134374	-.038076	.1294179	.1403685
Stddev	14.483	.0066511	.001856	.0034602	.000189	.0059254	.0088516
%RSD	1.119738	2.910139	27.46759	25.75027	.4975329	4.578472	6.305964
#1	1308.151	.2342059	-.008703	.0164989	-.037947	.1259492	.1411469
#2	1292.985	.2302165	-.006557	.0141300	-.038293	.1362597	.1311534
#3	1279.195	.2212215	-.005007	.0096834	-.037986	.1260449	.1488052

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: LR1 Acquired: 11/8/2024 20:38:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.164638	.5201921	-.926747
Stddev	.004045	.0006513	.005987
%RSD	2.456984	.1251938	.6460023
#1	-.169107	.5200584	-.933372
#2	-.161227	.5208998	-.925142
#3	-.163581	.5196181	-.921726

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1660.271	37216.35	9846.386	1170.599	2248.061
Stddev	4.072	51.98	27.911	3.430	1.434
%RSD	.2452357	.1396804	.2834653	.2930032	.0637669
#1	1655.646	37166.98	9876.299	1168.403	2248.124
#2	1663.315	37270.61	9841.818	1174.551	2249.462
#3	1661.852	37211.46	9821.040	1168.841	2246.597

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: LR2 Acquired: 11/8/2024 20:42:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0118242	-.049010	230.8096	.0060641	-.001821	.1117137	^F *****
Stddev	.0030265	.002585	.1756	.0027775	.001048	.0040102	-----
%RSD	25.59613	5.274275	.0760682	45.80214	57.53693	3.589744	-----
#1	.0126458	-.047372	230.6268	.0072743	-.000741	.1079798	^ -----
#2	.0084717	-.051990	230.9769	.0028868	-.001889	.1112090	^ -----
#3	.0143552	-.047668	230.8253	.0080312	-.002833	.1159525	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003269	-.007625	.3083927	.0102693	-.019841	269.0277	-.003820
Stddev	.000056	.000092	.0007733	.0004030	.000104	.8981	.005392
%RSD	1.722492	1.213041	.2507525	3.923790	.5236127	.3338147	141.1523
#1	-.003263	-.007624	.3084767	.0100773	-.019815	269.9866	-.009197
#2	-.003215	-.007718	.3091205	.0099983	-.019956	268.8902	-.003850
#3	-.003327	-.007533	.3075808	.0107323	-.019754	268.2063	.001587

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.97217	-.026157	45.55941	.0023177	1.053208	-.018104	38.41361
Stddev	.27373	.003392	.03482	.0003470	.004773	.000753	.27601
%RSD	.6369856	12.96853	.0764235	14.97180	.4532158	4.159343	.7185220
#1	42.81793	-.024871	45.53080	.0021548	1.051576	-.017886	38.52102
#2	43.28822	-.023597	45.59817	.0027162	1.058583	-.018942	38.61977
#3	42.81037	-.030005	45.54925	.0020820	1.049464	-.017485	38.10004

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3766292	.0011119	-.004427	-.005573	-.040946	-.011839	2.860381
Stddev	.0177724	.0000735	.000113	.000618	.000210	.001216	.015705
%RSD	4.718812	6.608771	2.546055	11.09157	.5121442	10.27490	.5490660
#1	.3711182	.0011968	-.004321	-.005999	-.040772	-.011775	2.874111
#2	.3965043	.0010685	-.004545	-.005855	-.040887	-.010656	2.863776
#3	.3622651	.0010705	-.004414	-.004864	-.041179	-.013086	2.843255

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: LR2 Acquired: 11/8/2024 20:42:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007288	-.000869	.0019381
Stddev	.002633	.000183	.0000208
%RSD	36.12456	21.03169	1.072867
#1	-.007613	-.001071	.0019170
#2	-.009743	-.000715	.0019387
#3	-.004508	-.000821	.0019586

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2426.055	58450.62	12666.86	1861.191	4337.617
Stddev	9.874	143.54	64.78	4.328	5.811
%RSD	.4069837	.2455667	.5114366	.2325152	.1339713
#1	2417.021	58323.16	12703.36	1858.548	4333.933
#2	2424.550	58422.61	12592.06	1858.840	4334.601
#3	2436.595	58606.10	12705.16	1866.185	4344.316

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV08 Acquired: 11/8/2024 20:48:34 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.616722	4.807179	4.791205	4.666160	4.621111	9.426317
Stddev	.004309	.065157	.010431	.001745	.004811	.033084
%RSD	.0933339	1.355413	.2177142	.0373979	.1041109	.3509752
#1	4.617843	4.881553	4.784462	4.668166	4.615606	9.388188
#2	4.611963	4.760153	4.785932	4.664992	4.624507	9.443334
#3	4.620359	4.779830	4.803220	4.665322	4.623221	9.447429

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.196599	.2574319	2.367917	23.98577	.9201237	2.372450
Stddev	.017323	.0005153	.004942	.04645	.0018149	.006286
%RSD	.1883620	.2001819	.2086910	.1936574	.1972451	.2649604
#1	9.202200	.2577457	2.365792	23.93215	.9199846	2.368201
#2	9.177168	.2577129	2.364393	24.01134	.9183824	2.369477
#3	9.210428	.2568372	2.373565	24.01381	.9220042	2.379671

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.174931	4.517925	2.298115	24.60944	2.376123	1.192967
Stddev	.001493	.009666	.002777	.09248	.006229	.001539
%RSD	.1270437	.2139479	.1208396	.3758020	.2621459	.1289981
#1	1.173623	4.510282	2.295422	24.51504	2.372263	1.191350
#2	1.174614	4.514702	2.300969	24.61340	2.372798	1.194414
#3	1.176557	4.528791	2.297952	24.69988	2.383309	1.193136

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.18078	2.372001	2.376213	25.74665	4.931008	4.725030
Stddev	.11982	.008401	.004176	.09356	.012421	.004601
%RSD	.4955031	.3541576	.1757280	.3634020	.2518962	.0973758
#1	24.28996	2.362395	2.374465	25.64905	4.938229	4.728164
#2	24.19978	2.375639	2.373196	25.75534	4.938129	4.719748
#3	24.05260	2.377970	2.380979	25.83557	4.916665	4.727179

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV08 Acquired: 11/8/2024 20:48:34 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.715540	4.524666	F 4.403019	4.970487	4.613204	F 4.133384
Stddev	.012232	.010646	.049904	.015808	.024492	.016280
%RSD	.2593940	.2352869	1.133397	.3180444	.5309044	.3938741
#1	4.719557	4.513037	4.351821	4.957305	4.633673	4.128683
#2	4.701805	4.533932	4.405716	4.966144	4.586069	4.151498
#3	4.725258	4.527029	4.451519	4.988013	4.619869	4.119972

Elem	Sr4077
Units	ppm
Avg	4.547920
Stddev	.019920
%RSD	.4379954
#1	4.540762
#2	4.532569
#3	4.570430

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2712.554	57884.42	12896.71	1916.473	4183.716
Stddev	3.457	10.85	29.25	1.183	5.560
%RSD	.1274291	.0187468	.2268046	.0617457	.1328883
#1	2716.123	57887.46	12871.68	1915.288	4189.333
#2	2709.221	57872.38	12889.60	1917.655	4183.601
#3	2712.318	57893.44	12928.86	1916.477	4178.215

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB08 Acquired: 11/8/2024 20:57:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011657	-.000291	.0009178	.0018927	-.000321	.0117278	-.000454
Stddev	.0015272	.001258	.0014404	.0004019	.000362	.0044263	.000318
%RSD	131.0110	431.5960	156.9400	21.23671	112.9838	37.74175	69.98376
#1	.0004349	-.001292	-.000443	.0022402	-.000607	.0089447	-.000804
#2	.0029209	.001121	.002426	.0019852	.000087	.0168318	-.000372
#3	.0001412	-.000703	.000770	.0014525	-.000441	.0094068	-.000185

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000487	.0000559	.0086707	-.000076	.0000860	.0005180	.0034190
Stddev	.0000326	.0001445	.0086966	.000472	.0000526	.0002007	.0028340
%RSD	66.88787	258.2344	100.2982	620.9081	61.19895	38.73862	82.89117
#1	.0000776	-.000104	.0010047	.000189	.0001447	.0003687	.0017868
#2	.0000134	.000095	.0181211	.000204	.0000430	.0004392	.0017787
#3	.0000551	.000177	.0068864	-.000620	.0000703	.0007461	.0066914

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001845	.0090901	.0003914	.0006094	.7201963	-.000234	-.000230
Stddev	.0002035	.0039297	.0001836	.0001464	.0412665	.001001	.000173
%RSD	110.3530	43.23112	46.91725	24.02934	5.729903	427.0090	75.27106
#1	.0000347	.0092222	.0005668	.0004667	.6792704	.000767	-.000369
#2	.0004162	.0050959	.0004070	.0007593	.7195233	-.001234	-.000036
#3	.0001024	.0129520	.0002005	.0006022	.7617953	-.000236	-.000285

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2658565	.0011807	.0001894	-.000034	.0005673	-.007905	-.008673
Stddev	.0419041	.0005142	.0002370	.000885	.0002296	.001562	.002717
%RSD	15.76193	43.55012	125.0943	2639.789	40.47003	19.76231	31.32386
#1	.2236143	.0006730	.0004628	.000107	.0003036	-.006147	-.006165
#2	.2665411	.0017012	.0000413	.000773	.0006753	-.008432	-.011559
#3	.3074141	.0011680	.0000643	-.000980	.0007228	-.009136	-.008294

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB08 Acquired: 11/8/2024 20:57:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0082360	-.001161	.0001181
Stddev	.0021626	.001157	.0000185
%RSD	26.25719	99.61378	15.69229
#1	.0086656	-.000233	.0001109
#2	.0058909	-.002457	.0001391
#3	.0101516	-.000794	.0001042

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2846.431	61197.97	13361.48	1993.747	4736.770
Stddev	8.666	239.23	26.68	5.695	13.981
%RSD	.3044537	.3909160	.1996604	.2856376	.2951648
#1	2836.451	61366.45	13364.13	1997.981	4721.175
#2	2852.059	60924.14	13333.57	1995.989	4740.950
#3	2850.783	61303.31	13386.73	1987.273	4748.184

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164646BL Acquired: 11/8/2024 21:02:03 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000040	.0010872	.0004009	-.000031	-.000362	.0073798	-.000335
Stddev	.001205	.0005289	.0003182	.000877	.000075	.0042442	.000193
%RSD	3045.089	48.64583	79.37101	2872.858	20.77950	57.51056	57.69406
#1	-.000779	.0004776	.0000346	-.000693	-.000307	.0070932	-.000557
#2	.001351	.0014233	.0006088	-.000362	-.000332	.0032862	-.000240
#3	-.000691	.0013609	.0005593	.000964	-.000448	.0117600	-.000208

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000559	.0000291	-.033793	-.001225	-.000034	.0006490	-.007765
Stddev	.0000181	.0000246	.005739	.000304	.000104	.0001352	.000345
%RSD	32.42771	84.62223	16.98218	24.78280	304.1417	20.83573	4.442714
#1	.0000753	.0000567	-.036166	-.001013	.000083	.0007488	-.008163
#2	.0000394	.0000095	-.037964	-.001573	-.000115	.0007032	-.007573
#3	.0000530	.0000211	-.027248	-.001090	-.000069	.0004951	-.007558

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000163	.0148564	-.000259	.0006973	.6235548	-.000319	-.002527
Stddev	.000170	.0048467	.000123	.0002999	.0255722	.000764	.000119
%RSD	104.3353	32.62362	47.64135	43.00454	4.101033	239.2804	4.726444
#1	-.000165	.0092759	-.000400	.0009246	.5941613	.000562	-.002633
#2	-.000331	.0180122	-.000178	.0008099	.6358109	-.000779	-.002398
#3	.000008	.0172811	-.000197	.0003574	.6406921	-.000741	-.002550

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2002625	.0005170	.0000588	.0021857	.0004195	-.005052	-.009279
Stddev	.0129443	.0004155	.0002445	.0004175	.0001807	.004087	.002915
%RSD	6.463662	80.36900	416.1045	19.10120	43.06677	80.89827	31.41312
#1	.1861573	.0001457	-.000196	.0017044	.0006092	-.007160	-.010765
#2	.2115973	.0009658	.000291	.0024499	.0004000	-.007655	-.011152
#3	.2030328	.0004395	.000081	.0024027	.0002494	-.000341	-.005921

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164646BL Acquired: 11/8/2024 21:02:03 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0048172	-.001858	-.000001
Stddev	.0020454	.000553	.000006
%RSD	42.45993	29.76387	497.6874
#1	.0032135	-.001229	.000001
#2	.0071206	-.002269	-.000007
#3	.0041175	-.002077	.000003

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2980.182	63744.20	13558.60	2116.884	4933.745
Stddev	7.009	14.33	14.38	14.015	10.857
%RSD	.2352018	.0224748	.1060860	.6620486	.2200520
#1	2979.431	63755.31	13565.85	2106.055	4934.989
#2	2987.537	63728.03	13567.92	2111.883	4943.926
#3	2973.579	63749.25	13542.03	2132.713	4922.319

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164646BS Acquired: 11/8/2024 21:06:22 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7252266	1.929886	.9315700	1.778740	.7053910	1.909258
Stddev	.0013679	.024475	.0008162	.003905	.0038655	.003209
%RSD	.1886172	1.268198	.0876152	.2195360	.5479932	.1680876
#1	.7251299	1.916016	.9318938	1.776627	.7027868	1.907382
#2	.7266403	1.958145	.9306416	1.783246	.7098324	1.912964
#3	.7239097	1.915496	.9321746	1.776347	.7035536	1.907429

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1779691	.2116532	.1817071	.9790547	.3682215	.1856210
Stddev	.0005725	.0009524	.0002353	.0069103	.0011659	.0004094
%RSD	.3216890	.4500055	.1294704	.7058179	.3166380	.2205484
#1	.1783729	.2107611	.1817129	.9808172	.3678710	.1858058
#2	.1782207	.2115422	.1819394	.9714338	.3695225	.1851518
#3	.1773139	.2126562	.1814690	.9849131	.3672711	.1859054

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2821111	2.608539	.1937573	1.990484	.4643864	.0711566
Stddev	.0004618	.007141	.0005590	.012735	.0003203	.0003556
%RSD	.1636917	.2737513	.2884879	.6398124	.0689697	.4997493
#1	.2826109	2.614461	.1939896	1.999984	.4645013	.0715668
#2	.2820220	2.600609	.1941627	1.976013	.4646334	.0709351
#3	.2817003	2.610545	.1931197	1.995455	.4640245	.0709679

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.766514	.2886567	.1935147	8.453685	.2963103	.3723907
Stddev	.007416	.0018315	.0003995	.062059	.0015589	.0007878
%RSD	.2680740	.6344959	.2064678	.7341080	.5260976	.2115478
#1	2.766890	.2904837	.1934666	8.497729	.2945305	.3721589
#2	2.773736	.2868208	.1931414	8.480616	.2969675	.3732684
#3	2.758917	.2886655	.1939361	8.382709	.2974330	.3717449

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164646BS Acquired: 11/8/2024 21:06:22 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6408186	.1833903	F .6082665	5.574129	F -.004028	.1633561
Stddev	.0004111	.0005205	.0018326	.007230	.002559	.0015715
%RSD	.0641553	.2838301	.3012817	.1297109	63.52496	.9620162
#1	.6408402	.1830543	.6064032	5.565884	-.001074	.1648666
#2	.6403971	.1839899	.6100667	5.577115	-.005487	.1634717
#3	.6412185	.1831267	.6083296	5.579389	-.005525	.1617300

Elem	Sr4077
Units	ppm
Avg	.1867209
Stddev	.0006857
%RSD	.3672415
#1	.1872527
#2	.1869632
#3	.1859470

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2965.761	62740.01	13183.29	2112.185	4772.116
Stddev	7.106	184.98	29.63	13.933	5.850
%RSD	.2396062	.2948364	.2247693	.6596586	.1225914
#1	2961.862	62526.71	13190.66	2100.718	4766.591
#2	2961.457	62856.37	13208.54	2127.692	4771.512
#3	2973.963	62836.95	13150.67	2108.145	4778.245

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164645BL Acquired: 11/8/2024 21:10:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006808	.0010720	.0001649	.0010969	-.000676	.0013564	-.000209
Stddev	.0022165	.0013006	.0008922	.0005701	.000916	.0016534	.000640
%RSD	325.5788	121.3273	541.1521	51.96806	135.5856	121.9032	306.0378
#1	-.001555	.0021811	.0008480	.0011168	-.001568	.0008388	.000397
#2	.000720	-.000360	-.000845	.0016568	-.000723	.0032066	-.000146
#3	.002877	.001395	.000491	.0005172	.000263	.0000236	-.000878

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000648	.0000311	.0005237	-.000083	.0000625	-.000099	-.001611
Stddev	.0000395	.0000629	.0041903	.000188	.0000791	.000105	.001208
%RSD	61.01362	202.2129	800.0758	226.3991	126.6254	105.4867	74.99378
#1	.0000195	.0000476	-.004048	.000001	.0000669	-.000205	-.002301
#2	.0000827	.0000841	.004182	-.000299	-.000019	-.000097	-.000216
#3	.0000921	-.000038	.001437	.000049	.000139	.000004	-.002316

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000196	.0084058	.0001316	.0007275	.4498259	-.000481	-.000203
Stddev	.000164	.0009645	.0002148	.0001500	.0441781	.000972	.000190
%RSD	83.67904	11.47371	163.2589	20.61842	9.821149	201.8658	93.89306
#1	-.000362	.0087900	.0000505	.0006214	.4099879	-.000263	-.000346
#2	-.000191	.0091190	-.000031	.0008991	.4421513	.000362	-.000275
#3	-.000035	.0073085	.000375	.0006619	.4973384	-.001544	.000013

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1305169	-.000031	.0001174	-.000714	.0004583	-.006312	-.009438
Stddev	.0072634	.000258	.0001232	.000474	.0001103	.003752	.001391
%RSD	5.565102	820.0189	104.9677	66.34315	24.05921	59.44580	14.73979
#1	.1286604	.000068	.0001930	-.000293	.0005853	-.003144	-.010736
#2	.1385283	.000161	.0001839	-.000623	.0004031	-.010456	-.009610
#3	.1243619	-.000324	-.000025	-.001227	.0003866	-.005336	-.007969

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164645BL Acquired: 11/8/2024 21:10:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0030011	-.001691	-.000014
Stddev	.0018049	.001980	.000027
%RSD	60.14207	117.0595	189.3054
#1	.0018629	-.002210	.000011
#2	.0020582	-.003360	-.000044
#3	.0050822	.000496	-.000010

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2919.633	63644.83	13303.65	2078.903	4847.990
Stddev	10.750	110.98	65.93	6.494	11.594
%RSD	.3681896	.1743774	.4955705	.3123826	.2391594
#1	2926.339	63651.74	13274.41	2071.406	4855.717
#2	2925.326	63752.20	13257.41	2082.479	4853.594
#3	2907.234	63530.56	13379.15	2082.823	4834.658

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164645BS Acquired: 11/8/2024 21:14:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7399549	1.913762	.9392173	1.825166	.7204642	1.910890
Stddev	.0030106	.034571	.0015480	.005622	.0010949	.004655
%RSD	.4068613	1.806443	.1648180	.3080011	.1519723	.2436180
#1	.7388034	1.890360	.9399558	1.820786	.7193529	1.906058
#2	.7376900	1.897456	.9374384	1.823206	.7204978	1.911265
#3	.7433713	1.953471	.9402578	1.831505	.7215419	1.915346

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1733709	.2095994	.1831450	1.007579	.3633557	.1867877
Stddev	.0007176	.0007245	.0002918	.007866	.0004175	.0003992
%RSD	.4139347	.3456767	.1593398	.7806695	.1148917	.2137207
#1	.1726145	.2088689	.1832558	.998499	.3633355	.1866730
#2	.1740421	.2103179	.1828140	1.012321	.3629487	.1864585
#3	.1734562	.2096114	.1833652	1.011916	.3637829	.1872318

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2868487	2.600512	.1894449	1.979825	.4690366	.0718285
Stddev	.0005504	.006610	.0011038	.013339	.0005032	.0001510
%RSD	.1918694	.2541746	.5826710	.6737371	.1072839	.2101940
#1	.2874717	2.598207	.1884001	1.967539	.4691653	.0719849
#2	.2864282	2.607966	.1905996	1.977923	.4684815	.0718171
#3	.2866463	2.595363	.1893350	1.994013	.4694629	.0716836

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.643332	.2884001	.1982821	8.482898	.2937874	.3780359
Stddev	.014692	.0023788	.0004883	.018147	.0014376	.0006049
%RSD	.5558067	.8248280	.2462616	.2139245	.4893470	.1600135
#1	2.632659	.2856636	.1978004	8.491943	.2922106	.3776251
#2	2.637249	.2895619	.1982694	8.462006	.2950254	.3777521
#3	2.660089	.2899747	.1987767	8.494745	.2941263	.3787306

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: PB164645BS Acquired: 11/8/2024 21:14:42 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6409927	.1820987	F .6280417	5.496467	F -.005792	F .1565216
Stddev	.0030257	.0009932	.0012766	.020282	.002342	.0015645
%RSD	.4720346	.5454005	.2032702	.3690040	40.43067	.9995438
#1	.6392906	.1812520	.6269760	5.515212	-.007968	.1547158
#2	.6392013	.1831919	.6276925	5.474936	-.003314	.1574700
#3	.6444861	.1818521	.6294566	5.499252	-.006094	.1573789

Elem	Sr4077
Units	ppm
Avg	.1846321
Stddev	.0003752
%RSD	.2032019
#1	.1842023
#2	.1848001
#3	.1848939

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2821.581	60635.94	12973.91	1987.167	4578.416
Stddev	5.039	107.46	36.73	9.911	9.787
%RSD	.1785829	.1772253	.2831132	.4987602	.2137609
#1	2815.779	60549.47	13016.26	1991.565	4567.997
#2	2824.865	60756.25	12950.74	1994.117	4587.416
#3	2824.098	60602.10	12954.72	1975.817	4579.834

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04DLX10 Acquired: 11/8/2024 21:18:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019348	-.001902	-.000460	.0025540	.0002009	.0799099
Stddev	.0022579	.000204	.000462	.0011434	.0012944	.0027068
%RSD	116.6969	10.74585	100.3331	44.76730	644.3148	3.387300
#1	-.000399	-.001933	.000004	.0037633	-.001164	.0825311
#2	.002095	-.001684	-.000920	.0024082	.001411	.0771249
#3	.004109	-.002090	-.000465	.0014905	.000355	.0800736

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049165	.0000530	-.000016	48.28117	.0000314	.0001735
Stddev	.0007692	.0000271	.000070	.27527	.0005814	.0000874
%RSD	15.64644	51.05369	438.9229	.5701493	1849.163	50.36906
#1	.0040797	.0000628	.000056	47.96400	-.000245	.0001290
#2	.0050767	.0000739	-.000019	48.45786	.000700	.0001174
#3	.0055930	.0000224	-.000084	48.42165	-.000361	.0002742

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000085	.1047945	.0154662	152.7730	.0007237	.0005018
Stddev	.000124	.0072103	.0004129	1.0955	.0001253	.0001930
%RSD	145.5500	6.880386	2.669636	.7170503	17.31531	38.46754
#1	-.000223	.1110892	.0150164	151.5097	.0008216	.0003770
#2	.000019	.0969280	.0158279	153.4593	.0005824	.0007242
#3	-.000052	.1063664	.0155544	153.3501	.0007669	.0004043

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1021.281	.0031573	.0014538	46.92520	.5023747	.0013292
Stddev	12.139	.0018660	.0002949	.70665	.0039016	.0002279
%RSD	1.188559	59.10019	20.28690	1.505916	.7766295	17.14578
#1	1011.999	.0049300	.0017924	46.40559	.4979365	.0010663
#2	1016.826	.0012103	.0012531	46.64014	.5052644	.0014510
#3	1035.017	.0033317	.0013159	47.72985	.5039231	.0014703

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04DLX10 Acquired: 11/8/2024 21:18:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003733	.0042312	.5039025	.0375746	F 113.1817	.0272437
Stddev	.000763	.0008500	.0353313	.0015149	3.4457	.0008915
%RSD	20.43827	20.08950	7.011538	4.031699	3.044371	3.272408
#1	-.004019	.0038801	.5126048	.0366719	109.9896	.0280611
#2	-.004311	.0036130	.4650331	.0393236	112.7209	.0273767
#3	-.002868	.0052005	.5340695	.0367285	116.8346	.0262931

Elem	Sr4077
Units	ppm
Avg	.8500414
Stddev	.0023130
%RSD	.2721080
#1	.8495360
#2	.8525653
#3	.8480228

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2265.946	48858.55	11907.18	1636.856	3271.044
Stddev	64.168	780.35	47.38	23.727	89.620
%RSD	2.831821	1.597169	.3979183	1.449561	2.739785
#1	2334.526	49551.69	11949.12	1659.033	3361.701
#2	2255.949	49010.59	11855.78	1639.700	3268.932
#3	2207.364	48013.36	11916.63	1611.835	3182.499

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04DUPDLX10 Acquired: 11/8/2024 21:23:07 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022070	-.002875	.0002330	.0005451	-.001352	.0310374
Stddev	.0033068	.001960	.0009795	.0009354	.001341	.0036158
%RSD	149.8301	68.17478	420.4523	171.5852	99.18339	11.64997
#1	.0036205	-.001954	-.000007	.0004195	-.000567	.0328333
#2	-.001572	-.005127	.001310	-.000321	-.000588	.0334036
#3	.004572	-.001545	-.000604	.001537	-.002900	.0268752

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050994	.0000795	.0000160	48.06735	-.000171	-.000065
Stddev	.0007389	.0000399	.0001850	.23761	.000391	.000254
%RSD	14.48997	50.22998	1154.598	.4943366	228.2934	390.8937
#1	.0059226	.0000444	.0000699	48.33873	-.000449	-.000350
#2	.0044935	.0001229	-.000190	47.89665	.000276	.000019
#3	.0048823	.0000712	.000168	47.96667	-.000341	.000137

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003670	.0922420	.0151379	151.4949	.0004958	.0003649
Stddev	.0005496	.0046943	.0003379	.9940	.0001927	.0002654
%RSD	149.7682	5.089126	2.232218	.6561538	38.87770	72.74269
#1	.0009648	.0880969	.0151272	152.5724	.0004225	.0003798
#2	.0002524	.0912895	.0154811	150.6137	.0003504	.0000923
#3	-.000116	.0973395	.0148055	151.2985	.0007144	.0006225

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1030.224	.0023174	.0014656	46.78398	.4996840	.0013228
Stddev	9.377	.0005466	.0002511	.24039	.0060345	.0001205
%RSD	.9102307	23.58474	17.13565	.5138273	1.207661	9.110646
#1	1040.703	.0019062	.0014345	46.52358	.5066053	.0012522
#2	1027.350	.0021084	.0017308	46.99742	.4969210	.0012542
#3	1022.620	.0029376	.0012315	46.83095	.4955256	.0014620

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04DUPDLX10 Acquired: 11/8/2024 21:23:07 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003897	.0015763	.3807527	.0350512	F 111.9835	.0243421
Stddev	.000541	.0006540	.0051927	.0018717	.0391	.0003746
%RSD	13.89229	41.49379	1.363799	5.339873	.0348843	1.538817
#1	-.004283	.0014087	.3808514	.0363393	111.9384	.0239105
#2	-.003278	.0022978	.3858954	.0329042	112.0047	.0245824
#3	-.004129	.0010223	.3755114	.0359099	112.0074	.0245334

Elem	Sr4077
Units	ppm
Avg	.8469684
Stddev	.0013506
%RSD	.1594676
#1	.8483220
#2	.8469625
#3	.8456208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2358.504	49298.29	12002.56	1663.754	3371.648
Stddev	1.928	84.03	114.92	7.023	2.017
%RSD	.0817574	.1704462	.9574572	.4221451	.0598247
#1	2356.487	49201.28	11871.05	1658.035	3373.190
#2	2360.329	49348.36	12083.67	1661.633	3369.366
#3	2358.697	49345.23	12052.95	1671.593	3372.389

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04LDLX50 Acquired: 11/8/2024 21:27:32 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000932	-.000326	.0000790	.0015567	-.000782	.0073193
Stddev	.002046	.001721	.0003499	.0011063	.000287	.0044483
%RSD	219.4997	528.0743	442.7201	71.06830	36.68571	60.77510
#1	-.002552	.001272	-.000196	.0010329	-.000835	.0116877
#2	-.001611	-.002148	.000473	.0008096	-.001038	.0027952
#3	.001367	-.000102	-.000039	.0028277	-.000472	.0074749

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001590	.0000868	-.000071	9.747377	-.000238	.0000231
Stddev	.0003648	.0000578	.000057	.043882	.000451	.0000582
%RSD	229.3718	66.60015	79.89554	.4501905	189.7590	252.3989
#1	.0003554	.0001099	-.000006	9.789707	-.000606	-.000042
#2	.0003835	.0000210	-.000110	9.750333	.000265	.000041
#3	-.000262	.0001294	-.000096	9.702093	-.000372	.000070

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000063	.0166028	.0030811	29.50375	-.000017	.0005406
Stddev	.000320	.0036792	.0001510	.18365	.000209	.0001857
%RSD	507.9478	22.16039	4.901845	.6224627	1265.571	34.35720
#1	-.000039	.0205769	.0030959	29.67722	.000153	.0003701
#2	-.000395	.0159163	.0032243	29.52265	.000048	.0007385
#3	.000244	.0133151	.0029233	29.31139	-.000251	.0005132

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	200.8635	.0003348	-.000886	8.343977	.1036097	.0003836
Stddev	2.9836	.0006865	.000178	.106427	.0006546	.0001990
%RSD	1.485370	205.0409	20.03002	1.275496	.6317996	51.88841
#1	204.1109	.0000945	-.000761	8.250448	.1040492	.0003183
#2	198.2436	.0011092	-.001089	8.321704	.1039225	.0006071
#3	200.2361	-.000199	-.000809	8.459778	.1028573	.0002254

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04LDLX50 Acquired: 11/8/2024 21:27:32 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002653	.0007341	.0616788	-.003602	F 20.11356	.0035428
Stddev	.000415	.0008244	.0063844	.000424	.09244	.0017555
%RSD	15.64748	112.3040	10.35098	11.77042	.4596048	49.55074
#1	-.002255	.0016741	.0543232	-.003261	20.14982	.0038364
#2	-.003083	.0001337	.0657825	-.004077	20.18237	.0051329
#3	-.002621	.0003946	.0649308	-.003470	20.00848	.0016590

Elem	Sr4077
Units	ppm
Avg	.1656642
Stddev	.0003988
%RSD	.2407493
#1	.1652991
#2	.1656037
#3	.1660899

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2660.517	57027.61	12841.55	1888.152	4040.641
Stddev	12.053	67.81	115.83	4.118	12.162
%RSD	.4530300	.1189000	.9019761	.2180877	.3009894
#1	2652.036	57104.08	12732.43	1887.365	4031.625
#2	2655.201	57003.92	12829.14	1892.606	4035.823
#3	2674.314	56974.83	12963.08	1884.484	4054.473

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04MSDLX10 Acquired: 11/8/2024 21:31:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0815914	.1670638	.0937744	.2001093	.0759058	.2245844
Stddev	.0008900	.0024761	.0020420	.0034717	.0012140	.0054854
%RSD	1.090866	1.482130	2.177571	1.734924	1.599387	2.442484
#1	.0824955	.1656945	.0921496	.2025510	.0747107	.2277709
#2	.0815628	.1699221	.0931070	.1961350	.0758689	.2182504
#3	.0807160	.1655747	.0960666	.2016419	.0771379	.2277318

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210571	.0203907	.0193581	46.10014	.0354142	.0192826
Stddev	.0003893	.0000993	.0000957	.28683	.0002264	.0002421
%RSD	1.848640	.4867948	.4941643	.6221868	.6392675	1.255512
#1	.0215063	.0204676	.0193612	46.30536	.0352645	.0194579
#2	.0208192	.0204258	.0192609	46.22267	.0356746	.0193835
#3	.0208458	.0202786	.0194522	45.77240	.0353034	.0190063

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0263593	.3702532	.0329133	145.7667	.0485862	.0085780
Stddev	.0003522	.0050683	.0001363	1.0119	.0002210	.0001145
%RSD	1.336005	1.368870	.4141732	.6941901	.4548082	1.335045
#1	.0259667	.3651438	.0327567	146.5832	.0487211	.0086144
#2	.0266473	.3752794	.0329779	146.0823	.0487063	.0084497
#3	.0264640	.3703364	.0330053	144.6346	.0483312	.0086699

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	983.2345	.0294110	.0227233	45.84441	.5068769	.0386234
Stddev	5.9298	.0006265	.0002958	.36330	.0038861	.0000209
%RSD	.6030952	2.130198	1.301846	.7924643	.7666815	.0540366
#1	990.0602	.0297974	.0230544	45.53627	.5107389	.0386080
#2	979.3526	.0286881	.0224851	45.75197	.5069247	.0386151
#3	980.2905	.0297474	.0226303	46.24501	.5029670	.0386471

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04MSDLX10 Acquired: 11/8/2024 21:31:58 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0620366	.0191703	.4346477	.7510728	F 107.3500	.0398299
Stddev	.0004186	.0005479	.0046271	.0004786	.1932	.0003231
%RSD	.6748222	2.858261	1.064559	.0637194	.1799660	.8111566
#1	.0623785	.0188631	.4341676	.7506272	107.4866	.0395088
#2	.0621615	.0188449	.4302793	.7515787	107.1290	.0401550
#3	.0615697	.0198029	.4394961	.7510125	107.4345	.0398259

Elem	Sr4077
Units	ppm
Avg	.8265518
Stddev	.0011328
%RSD	.1370515
#1	.8255774
#2	.8262833
#3	.8277948

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2328.497	49605.79	12150.61	1660.714	3359.543
Stddev	22.764	148.31	108.31	14.875	23.348
%RSD	.9776366	.2989701	.8914042	.8956792	.6949651
#1	2341.330	49434.56	12044.17	1647.021	3365.928
#2	2341.948	49689.22	12146.97	1676.540	3379.034
#3	2302.214	49693.59	12260.70	1658.582	3333.667

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04MSDDLX10 Acquired: 11/8/2024 21:36:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0845275	.1742898	.0953040	.2081721	.0794618	.2321365
Stddev	.0024618	.0047057	.0024932	.0022685	.0006487	.0109413
%RSD	2.912470	2.699914	2.616015	1.089703	.8163881	4.713285
#1	.0873646	.1696905	.0934226	.2075076	.0788322	.2446589
#2	.0832631	.1740838	.0943577	.2106985	.0801281	.2273252
#3	.0829548	.1790951	.0981318	.2063100	.0794250	.2244253

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196809	.0200241	.0195716	45.87434	.0360368	.0200119
Stddev	.0003808	.0000683	.0000974	.36497	.0002239	.0001144
%RSD	1.934803	.3413537	.4974581	.7955873	.6212871	.5715980
#1	.0195514	.0200078	.0195482	46.05333	.0358077	.0199463
#2	.0193818	.0199653	.0194881	45.45442	.0360478	.0199455
#3	.0201096	.0200991	.0196785	46.11525	.0362550	.0201440

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0274911	.3821267	.0329742	144.5392	.0491029	.0089794
Stddev	.0003639	.0005907	.0004866	1.1193	.0007372	.0001602
%RSD	1.323600	.1545832	1.475616	.7743996	1.501334	1.784036
#1	.0271489	.3821402	.0333514	144.6420	.0487419	.0088545
#2	.0278733	.3815294	.0324250	143.3720	.0486158	.0091600
#3	.0274511	.3827105	.0331463	145.6035	.0499510	.0089237

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1038.227	.0303340	.0232631	48.41081	.4999648	.0399397
Stddev	14.475	.0007867	.0002425	.19597	.0028499	.0000070
%RSD	1.394177	2.593459	1.042264	.4048116	.5700185	.0176101
#1	1054.723	.0296746	.0235179	48.62190	.5029647	.0399320
#2	1032.310	.0312048	.0232361	48.37588	.4972935	.0399459
#3	1027.649	.0301227	.0230352	48.23466	.4996362	.0399411

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04MSDDLX10 Acquired: 11/8/2024 21:36:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0633924	.0190989	.4542252	.7574191	F 109.8008	.0414790
Stddev	.0015689	.0005470	.0091587	.0040589	.6483	.0001642
%RSD	2.474958	2.863892	2.016326	.5358816	.5904151	.3958872
#1	.0632177	.0188304	.4464253	.7563410	109.4370	.0416686
#2	.0619181	.0187381	.4643100	.7540080	109.4163	.0413825
#3	.0650414	.0197282	.4519403	.7619081	110.5493	.0413859

Elem	Sr4077
Units	ppm
Avg	.8477434
Stddev	.0100338
%RSD	1.183593
#1	.8591032
#2	.8400903
#3	.8440366

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2243.137	49150.11	12419.12	1605.191	3270.572
Stddev	6.952	84.26	76.27	3.994	14.335
%RSD	.3099090	.1714384	.6140951	.2488168	.4383047
#1	2246.553	49245.45	12348.82	1601.069	3282.150
#2	2235.138	49119.22	12500.20	1609.044	3275.028
#3	2247.718	49085.64	12408.34	1605.459	3254.538

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04ADLX10 Acquired: 11/8/2024 21:40:49 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0867470	.1749572	.0940696	.2096473	.0816630	.2352210
Stddev	.0022361	.0036863	.0004254	.0026510	.0005264	.0014415
%RSD	2.577710	2.106997	.4522291	1.264511	.6445884	.6128342
#1	.0860738	.1789190	.0941651	.2122376	.0817392	.2349323
#2	.0849250	.1716283	.0944392	.2069395	.0821471	.2339457
#3	.0892424	.1743244	.0936046	.2097650	.0811026	.2367850

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215898	.0205028	.0197323	47.40478	.0362502	.0198876
Stddev	.0006172	.0002258	.0001485	.46853	.0005743	.0000425
%RSD	2.858582	1.101094	.7524922	.9883661	1.584195	.2134884
#1	.0210449	.0202553	.0196021	46.91785	.0358717	.0199282
#2	.0214645	.0205555	.0198940	47.44403	.0369110	.0198911
#3	.0222600	.0206975	.0197007	47.85245	.0359680	.0198435

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0281873	.3964810	.0338216	148.9737	.0497136	.0089187
Stddev	.0002369	.0020780	.0002167	1.4722	.0003270	.0002166
%RSD	.8404459	.5241137	.6405802	.9882362	.6578426	2.428734
#1	.0280484	.3959863	.0336457	147.3400	.0493373	.0087150
#2	.0280528	.3946950	.0340636	149.3838	.0498740	.0088948
#3	.0284609	.3987617	.0337555	150.1975	.0499294	.0091462

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1075.314	.0308524	.0242396	49.54106	.5246402	.0404964
Stddev	7.584	.0022904	.0001105	.28974	.0052590	.0002944
%RSD	.7052955	7.423609	.4559999	.5848406	1.002404	.7269776
#1	1081.860	.0282749	.0243398	49.81749	.5186878	.0404390
#2	1077.080	.0316282	.0241211	49.23964	.5265757	.0402350
#3	1067.003	.0326542	.0242580	49.56605	.5286572	.0408153

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4718-04ADLX10 Acquired: 11/8/2024 21:40:49 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0639888	.0204206	.4734368	.7691175	F 112.1568	.0432426
Stddev	.0011839	.0007301	.0030883	.0067156	.2724	.0007629
%RSD	1.850178	3.575254	.6523094	.8731599	.2428724	1.764246
#1	.0653498	.0211745	.4769342	.7618300	111.9666	.0424315
#2	.0631972	.0197170	.4710850	.7704658	112.0349	.0433505
#3	.0634193	.0203702	.4722913	.7750567	112.4688	.0439458

Elem	Sr4077
Units	ppm
Avg	.8700741
Stddev	.0026576
%RSD	.3054425
#1	.8685935
#2	.8684866
#3	.8731422

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2221.108	47387.13	11925.12	1576.096	3230.061
Stddev	8.914	111.64	73.09	12.055	11.270
%RSD	.4013320	.2355870	.6128990	.7648764	.3489112
#1	2217.006	47260.28	12009.35	1562.225	3233.735
#2	2231.334	47430.63	11887.57	1582.019	3239.036
#3	2214.982	47470.46	11878.44	1584.045	3217.413

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV09 Acquired: 11/8/2024 21:50:12 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.608986	4.712732	4.710107	4.685461	4.623522	9.359207
Stddev	.015205	.036097	.009710	.014594	.011258	.008530
%RSD	.3298997	.7659461	.2061477	.3114736	.2434999	.0911394
#1	4.601022	4.729190	4.718810	4.670372	4.622523	9.368323
#2	4.599417	4.671340	4.699634	4.686508	4.612797	9.357878
#3	4.626519	4.737668	4.711876	4.699504	4.635247	9.351420

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.112053	.2513622	2.314161	23.64041	.9017686	2.328336
Stddev	.095801	.0003765	.005712	.03792	.0033690	.005623
%RSD	1.051368	.1497711	.2468452	.1604162	.3735968	.2415045
#1	9.222656	.2514937	2.318384	23.60555	.9027518	2.332114
#2	9.054985	.2516553	2.307661	23.68079	.9045365	2.321874
#3	9.058518	.2509376	2.316437	23.63488	.8980174	2.331020

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.158720	5.470325	2.269470	24.17678	2.327873	1.187923
Stddev	.002870	.030717	.004320	.05808	.005703	.003144
%RSD	.2476816	.5615285	.1903466	.2402502	.2449671	.2646604
#1	1.156522	5.437190	2.264563	24.14321	2.332228	1.191553
#2	1.157670	5.497851	2.272699	24.24385	2.321418	1.186154
#3	1.161966	5.475935	2.271148	24.14328	2.329972	1.186063

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.91182	2.349742	2.420787	25.76465	4.844928	4.673906
Stddev	.05438	.005010	.008238	.03213	.017386	.008741
%RSD	.2274204	.2132220	.3403210	.1246864	.3588424	.1870241
#1	23.97452	2.352848	2.429510	25.78612	4.861471	4.668865
#2	23.88339	2.352415	2.419715	25.72772	4.846505	4.668853
#3	23.87755	2.343962	2.413138	25.78011	4.826808	4.684000

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV09 Acquired: 11/8/2024 21:50:12 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.621561	F 4.487373	F 4.456035	4.927482	4.556484	F 4.138588
Stddev	.012828	.004525	.014696	.014390	.013598	.004010
%RSD	.2775754	.1008440	.3298059	.2920351	.2984378	.0968979
#1	4.629599	4.490522	4.439207	4.942269	4.559899	4.139514
#2	4.606767	4.489411	4.466348	4.913525	4.541504	4.134196
#3	4.628317	4.482188	4.462549	4.926651	4.568050	4.142055

Elem	Sr4077
Units	ppm
Avg	4.532765
Stddev	.037954
%RSD	.8373145
#1	4.576588
#2	4.511202
#3	4.510505

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2748.749	59002.69	13314.71	1940.209	4271.764
Stddev	6.091	55.63	16.35	5.755	7.168
%RSD	.2215855	.0942824	.1228219	.2966306	.1677880
#1	2754.321	58992.38	13305.75	1938.170	4267.333
#2	2749.681	58952.93	13304.79	1946.706	4280.034
#3	2742.247	59062.75	13333.58	1935.750	4267.926

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB09 Acquired: 11/8/2024 21:55:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010578	.0003343	-.000174	.0005800	-.000193	.0026910	-.002094
Stddev	.0014625	.0014010	.000448	.0001845	.000055	.0029582	.000433
%RSD	138.2553	419.0728	257.4334	31.80532	28.43443	109.9272	20.69050
#1	.0021262	-.000103	-.000551	.0006964	-.000255	.0049522	-.001594
#2	.0016563	-.000796	-.000293	.0003673	-.000149	-.000657	-.002322
#3	-.000609	.001902	.000321	.0006764	-.000176	.003778	-.002365

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000582	.0000003	.0023290	.0002437	.0001126	-.000221	-.001403
Stddev	.0000449	.0000491	.0024310	.0003050	.0000359	.000150	.001826
%RSD	77.14005	18278.71	104.3814	125.1272	31.90927	67.77154	130.0993
#1	.0000227	-.000029	-.000463	.0002135	.0000726	-.000275	.000292
#2	.0000432	.000057	.003978	-.000045	.0001422	-.000052	-.001165
#3	.0001087	-.000027	.003472	.000563	.0001229	-.000337	-.003336

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000020	.0035129	.0000801	.0008546	.2102194	-.000164	.0003064
Stddev	.000161	.0028658	.0002213	.0002760	.0398562	.000787	.0002237
%RSD	793.2998	81.57916	276.0959	32.29190	18.95933	479.9374	73.00629
#1	-.000205	.0015174	-.000096	.0005421	.1698497	.000730	.0005622
#2	.000060	.0067967	.000329	.0010648	.2112670	-.000751	.0002100
#3	.000084	.0022246	.000008	.0009570	.2495414	-.000470	.0001471

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0887371	.0033726	.0006082	-.000384	.0005129	-.004583	-.008740
Stddev	.0102989	.0009259	.0001763	.000643	.0002300	.003088	.001558
%RSD	11.60604	27.45337	28.98983	167.2906	44.85016	67.36786	17.82660
#1	.0947970	.0039928	.0008099	-.000130	.0003028	-.008116	-.010281
#2	.0768458	.0038167	.0005311	.000093	.0004772	-.002401	-.008776
#3	.0945686	.0023083	.0004835	-.001115	.0007587	-.003232	-.007165

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB09 Acquired: 11/8/2024 21:55:23 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0028633	-.001762	.0002000
Stddev	.0019604	.001704	.0000588
%RSD	68.46657	96.73614	29.41898
#1	.0014299	.000144	.0001398
#2	.0050972	-.002290	.0002029
#3	.0020626	-.003139	.0002573

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2765.327	59337.44	12973.17	1920.421	4615.315
Stddev	3.455	73.51	94.18	5.182	7.589
%RSD	.1249554	.1238785	.7259318	.2698567	.1644412
#1	2761.604	59256.55	12866.45	1918.702	4606.612
#2	2768.432	59355.63	13008.45	1926.245	4620.561
#3	2765.944	59400.15	13044.62	1916.317	4618.771

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01 Acquired: 11/8/2024 21:59:44 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012907	-.008904	-.033295	.0386161	.0065046	-.048852
Stddev	.002433	.004366	.001753	.0055766	.0043637	.005851
%RSD	18.85288	49.03503	5.265467	14.44111	67.08689	11.97610
#1	-.012622	-.011032	-.032280	.0423856	.0080774	-.043511
#2	-.015470	-.011798	-.035319	.0322101	.0015725	-.055105
#3	-.010629	-.003882	-.032286	.0412527	.0098639	-.047939

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114651	-.000585	-.006502	281.6474	.0586430	.2296123
Stddev	.0009971	.000192	.000280	16.1948	.0012413	.0029592
%RSD	8.697074	32.78689	4.312987	5.750027	2.116750	1.288791
#1	.0126131	-.000805	-.006474	292.9954	.0594982	.2329445
#2	.0108144	-.000496	-.006237	288.8453	.0572193	.2272908
#3	.0109680	-.000453	-.006795	263.1014	.0592116	.2286017

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.058663	.0313308	.0022829	6.017729	.2316871	.0205452
Stddev	.005965	.0039518	.0002557	.378148	.0014522	.0004751
%RSD	10.16748	12.61327	11.20144	6.283903	.6267839	2.312629
#1	-.065243	.0295287	.0022713	6.327450	.2320352	.0200875
#2	-.053610	.0286012	.0025442	6.129424	.2300925	.0205121
#3	-.057138	.0358624	.0020332	5.596315	.2329335	.0210360

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	-.032034	.2979857	248.7252	.4458665	5.898299
Stddev	-----	.003099	.0077874	32.9725	.0324419	.149021
%RSD	-----	9.673378	2.613347	13.25660	7.276142	2.526506
#1	^ -----	-.034346	.3069729	213.7453	.4569244	6.060679
#2	^ -----	-.033243	.2932332	253.1964	.4713339	5.767796
#3	^ -----	-.028513	.2937511	279.2340	.4093414	5.866422

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01 Acquired: 11/8/2024 21:59:44 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.045795	.0018884	1.961851	.0657888	F 5502.880	.3332441
Stddev	.002348	.0005791	.045113	.0104841	152.567	.0348627
%RSD	5.127736	30.66310	2.299536	15.93601	2.772486	10.46161
#1	-.046119	.0025418	1.923558	.0605707	5675.277	.3115084
#2	-.043302	.0014389	2.011583	.0589376	5448.080	.3734560
#3	-.047965	.0016845	1.950413	.0778580	5385.282	.3147678

Elem	Sr4077
Units	ppm
Avg	.4652347
Stddev	.0314793
%RSD	6.766336
#1	.4683432
#2	.4950444
#3	.4323164

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	857.5988	18156.66	5393.102	575.3413	884.9361
Stddev	61.8227	456.45	373.408	19.9659	62.4915
%RSD	7.208814	2.513949	6.923813	3.470268	7.061698
#1	786.2122	17776.18	5183.242	553.8113	812.8499
#2	893.2016	18662.77	5171.838	593.2464	923.7846
#3	893.3826	18031.03	5824.227	578.9663	918.1739

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01DLX25 Acquired: 11/8/2024 22:24:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011250	-.002413	-.002206	.0033216	-.000092	-.010220
Stddev	.0016677	.001786	.001424	.0016089	.001282	.002748
%RSD	148.2455	74.00683	64.53754	48.43742	1393.600	26.88376
#1	-.000378	-.004456	-.002462	.0044215	.001382	-.013365
#2	.002919	-.001151	-.003485	.0014750	-.000948	-.008283
#3	.000834	-.001632	-.000672	.0040682	-.000709	-.009013

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038780	-.000016	-.000432	16.72947	.0023161	.0145960
Stddev	.0012002	.000072	.000177	.85944	.0002620	.0001566
%RSD	30.94884	443.2040	40.98509	5.137288	11.31188	1.072738
#1	.0034301	-.000090	-.000393	15.76699	.0020744	.0146174
#2	.0029661	.000055	-.000625	17.00128	.0022795	.0144298
#3	.0052377	-.000014	-.000277	17.42014	.0025946	.0147408

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001036	-.009192	-.000271	.4175373	.0154117	.0006668
Stddev	.0001579	.000177	.000142	.0153534	.0006171	.0004321
%RSD	152.4303	1.929310	52.53721	3.677127	4.004307	64.79807
#1	.0002225	-.009227	-.000427	.3998482	.0147097	.0003366
#2	.0001640	-.009349	-.000237	.4253576	.0156567	.0011558
#3	-.000076	-.008999	-.000148	.4274060	.0158688	.0005080

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2385.191	-.002065	.0046783	3.377132	.0188891	.3743952
Stddev	43.687	.000588	.0003130	.261742	.0011356	.0011033
%RSD	1.831597	28.48729	6.690892	7.750416	6.011864	.2947018
#1	2434.834	-.002706	.0048714	3.098676	.0175933	.3756448
#2	2368.133	-.001943	.0043171	3.414598	.0193631	.3739855
#3	2352.607	-.001548	.0048463	3.618122	.0197109	.3735552

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01DLX25 Acquired: 11/8/2024 22:24:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005163	.0006245	.0415423	-.018369	F 1272.058	.0050632
Stddev	.000605	.0002388	.0060258	.000547	13.324	.0022323
%RSD	11.72680	38.23289	14.50516	2.977040	1.047463	44.08846
#1	-.004492	.0008756	.0482059	-.017892	1263.516	.0027017
#2	-.005668	.0004005	.0399448	-.018248	1265.246	.0053493
#3	-.005329	.0005973	.0364763	-.018966	1287.411	.0071387

Elem	Sr4077
Units	ppm
Avg	.0198946
Stddev	.0009554
%RSD	4.802431
#1	.0187979
#2	.0203399
#3	.0205462

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2342.004	44798.32	10885.60	1705.024	3000.503
Stddev	45.332	187.74	456.97	5.875	34.853
%RSD	1.935619	.4190877	4.197890	.3445474	1.161570
#1	2304.586	44581.65	11400.29	1698.294	2971.484
#2	2329.012	44900.39	10728.95	1709.128	2990.864
#3	2392.414	44912.92	10527.56	1707.648	3039.161

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01DUPDLX25 Acquired: 11/8/2024 22:29:21 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000104	-.001690	-.001811	.0030792	-.000906	-.006433
Stddev	.001610	.001225	.001528	.0016422	.000494	.001908
%RSD	1546.315	72.46513	84.40383	53.33337	54.57578	29.66539
#1	-.001048	-.000400	-.002549	.0034784	-.001277	-.004230
#2	-.001020	-.002837	-.002830	.0044850	-.001096	-.007585
#3	.001755	-.001832	-.000053	.0012741	-.000345	-.007484

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098820	-.000032	-.000352	18.24645	.0027510	.0143394
Stddev	.0010841	.000077	.000117	.61249	.0002979	.0003078
%RSD	10.97024	241.4506	33.18268	3.356762	10.82722	2.146181
#1	.0108971	-.000111	-.000264	18.95317	.0030949	.0140523
#2	.0087401	-.000026	-.000309	17.86970	.0025854	.0143017
#3	.0100089	.000042	-.000485	17.91647	.0025727	.0146643

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001878	-.009863	-.000039	.4725395	.0155722	.0001269
Stddev	.0001771	.002902	.000187	.0270857	.0002537	.0002276
%RSD	94.30383	29.41944	480.0920	5.731937	1.628987	179.3810
#1	.0000369	-.007629	.000038	.5031402	.0153865	-.000122
#2	.0001438	-.008818	.000098	.4628362	.0154688	.000180
#3	.0003828	-.013143	-.000253	.4516419	.0158612	.000323

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2113.941	-.001499	.0046670	3.899591	.0217641	.3632847
Stddev	41.132	.000390	.0002540	.142589	.0004131	.0007263
%RSD	1.945730	26.05423	5.441578	3.656507	1.898296	.1999256
#1	2137.754	-.001053	.0048234	3.735368	.0219845	.3627448
#2	2137.623	-.001660	.0048036	3.971475	.0212875	.3629989
#3	2066.446	-.001783	.0043739	3.991931	.0220203	.3641104

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01DUPDLX25 Acquired: 11/8/2024 22:29:21 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005762	.0007606	.0418981	-.022942	F 1268.837	.0060440
Stddev	.001062	.0005896	.0092567	.003912	11.217	.0006839
%RSD	18.42501	77.52098	22.09337	17.05289	.8840752	11.31514
#1	-.006976	.0014406	.0469440	-.022300	1259.284	.0067244
#2	-.005302	.0003916	.0475355	-.027136	1266.038	.0060510
#3	-.005007	.0004496	.0312149	-.019391	1281.189	.0053567

Elem	Sr4077
Units	ppm
Avg	.0204119
Stddev	.0006731
%RSD	3.297347
#1	.0211739
#2	.0201634
#3	.0198985

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2581.138	45127.66	10218.86	1814.473	3267.202
Stddev	43.909	59.91	335.71	15.757	42.483
%RSD	1.701132	.1327606	3.285241	.8683886	1.300291
#1	2534.529	45150.84	9831.34	1813.438	3221.581
#2	2587.163	45059.62	10404.12	1830.722	3274.397
#3	2621.724	45172.51	10421.13	1799.260	3305.629

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01LDLX125 Acquired: 11/8/2024 22:33:46 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014121	-.001522	-.001066	-.000534	-.000873	.0014988
Stddev	.0012712	.000522	.000558	.000915	.000032	.0120005
%RSD	90.02510	34.28686	52.36482	171.4970	3.651749	800.6717
#1	.0026690	-.000942	-.001219	.000224	-.000910	.0134862
#2	.0001270	-.001955	-.001533	-.000274	-.000852	-.010515
#3	.0014402	-.001668	-.000448	-.001551	-.000857	.001525

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0155627	.0000276	-.000065	4.421266	-.001099	.0026284
Stddev	.0004232	.0000371	.000068	.044618	.000210	.0001060
%RSD	2.719520	134.1559	104.5409	1.009159	19.07790	4.033724
#1	.0156898	-.000012	-.000051	4.443069	-.000986	.0025610
#2	.0159078	.000033	-.000005	4.450790	-.000970	.0027506
#3	.0150905	.000062	-.000138	4.369939	-.001341	.0025737

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000356	-.010762	-.000332	.1180747	.0023459	.0000522
Stddev	.000157	.003259	.000114	.0049948	.0001616	.0003787
%RSD	43.95267	30.28452	34.28878	4.230218	6.890310	725.3527
#1	-.000199	-.013810	-.000405	.1165363	.0022051	.0000460
#2	-.000512	-.011149	-.000390	.1236577	.0025224	-.000323
#3	-.000358	-.007327	-.000201	.1140300	.0023103	.000434

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	510.3026	-.001063	-.001337	1.046266	.0054299	.0660963
Stddev	70.3180	.001428	.000376	.101079	.0007980	.0004679
%RSD	13.77966	134.3278	28.10459	9.660953	14.69645	.7079194
#1	591.1589	-.000158	-.000963	1.160130	.0054417	.0664157
#2	476.3028	-.000322	-.001333	1.011546	.0062219	.0663139
#3	463.4463	-.002709	-.001714	.967123	.0046260	.0655592

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01LDLX125 Acquired: 11/8/2024 22:33:46 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003270	.0009886	.0002664	-.023361	F 258.1880	.0047550
Stddev	.000311	.0005289	.0101610	.002871	1.3094	.0016917
%RSD	9.521600	53.50512	3814.306	12.29106	.5071457	35.57702
#1	-.003525	.0007892	.0097805	-.026668	258.0124	.0033437
#2	-.003361	.0005883	.0014555	-.021910	259.5764	.0042910
#3	-.002923	.0015882	-.010437	-.021505	256.9753	.0066302

Elem	Sr4077
Units	ppm
Avg	.0046670
Stddev	.0000397
%RSD	.8500569
#1	.0046563
#2	.0047110
#3	.0046338

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3509.306	56683.86	9984.331	2291.143	4662.780
Stddev	13.501	6519.87	90.174	270.206	10.520
%RSD	.3847219	11.50216	.9031510	11.79350	.2256100
#1	3501.583	49170.70	9930.376	1980.200	4656.774
#2	3501.439	60024.55	9934.187	2424.320	4656.640
#3	3524.895	60856.33	10088.43	2468.909	4674.927

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01MSDLX25 Acquired: 11/8/2024 22:44:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0350010	.0798043	.0447860	.0818264	.0272371	.0724190
Stddev	.0026675	.0013273	.0009935	.0014260	.0014451	.0060992
%RSD	7.621193	1.663177	2.218397	1.742713	5.305611	8.422079
#1	.0330020	.0791697	.0443852	.0828291	.0286235	.0656809
#2	.0339712	.0813298	.0440556	.0824561	.0273479	.0740139
#3	.0380300	.0789135	.0459174	.0801939	.0257397	.0775624

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184416	.0111073	.0096148	15.82782	.0199529	.0216619
Stddev	.0010245	.0001351	.0000928	.11872	.0004954	.0004372
%RSD	5.555632	1.216192	.9651125	.7500539	2.482942	2.018518
#1	.0172620	.0109630	.0095089	15.69090	.0194741	.0214355
#2	.0191097	.0111279	.0096821	15.90213	.0199213	.0221659
#3	.0189530	.0112308	.0096534	15.89042	.0204634	.0213843

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099762	.1090646	.0084180	.5085087	.0368110	.0036758
Stddev	.0002847	.0017951	.0001703	.0072792	.0006152	.0002348
%RSD	2.854151	1.645897	2.022953	1.431484	1.671215	6.388474
#1	.0097473	.1101333	.0085688	.5035845	.0361008	.0034647
#2	.0098862	.1069922	.0084519	.5168700	.0371519	.0036340
#3	.0102951	.1100684	.0082333	.5050714	.0371802	.0039288

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1800.286	.0095023	.0129478	2.774014	.0318089	.3195520
Stddev	63.255	.0019479	.0002095	.069557	.0003356	.0014146
%RSD	3.513627	20.49905	1.618217	2.507449	1.054988	.4426751
#1	1856.562	.0073391	.0127277	2.712867	.0317347	.3185235
#2	1812.471	.0100505	.0129708	2.759488	.0321753	.3211652
#3	1731.824	.0111174	.0131449	2.849687	.0315166	.3189673

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01MSDLX25 Acquired: 11/8/2024 22:44:57 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0282335	.0080514	.0553175	.3460303	F 1130.824	.0125213
Stddev	.0002971	.0002146	.0024836	.0031627	7.520	.0005694
%RSD	1.052209	2.664890	4.489623	.9139849	.6650177	4.547756
#1	.0279474	.0081925	.0548298	.3424420	1122.156	.0131531
#2	.0285404	.0081573	.0580087	.3484122	1135.597	.0120475
#3	.0282128	.0078045	.0531140	.3472368	1134.720	.0123634

Elem	Sr4077
Units	ppm
Avg	.0240638
Stddev	.0000414
%RSD	.1721682
#1	.0240194
#2	.0240706
#3	.0241014

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3037.701	51294.44	11098.32	2111.699	3780.744
Stddev	28.647	382.84	85.87	18.568	23.347
%RSD	.9430539	.7463604	.7736893	.8792801	.6175245
#1	3006.852	50990.25	11197.41	2091.725	3755.365
#2	3042.786	51168.75	11051.82	2114.937	3785.558
#3	3063.466	51724.33	11045.73	2128.434	3801.309

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01MSDDLX25 Acquired: 11/8/2024 22:53:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0374459	.0805971	.0420315	.0919122	.0313818	.0806027
Stddev	.0017045	.0004602	.0006748	.0012115	.0006306	.0018100
%RSD	4.551919	.5709520	1.605536	1.318102	2.009526	2.245598
#1	.0356956	.0801251	.0425562	.0932869	.0317270	.0791086
#2	.0375416	.0810445	.0422680	.0914493	.0317645	.0826154
#3	.0391005	.0806217	.0412702	.0910004	.0306540	.0800840

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123587	.0105888	.0095013	15.88877	.0193751	.0220218
Stddev	.0007798	.0001755	.0000614	.31862	.0005181	.0002188
%RSD	6.309575	1.657578	.6461522	2.005319	2.674066	.9934634
#1	.0114596	.0103975	.0095570	15.57376	.0194936	.0222677
#2	.0128513	.0106265	.0095114	15.88167	.0188080	.0219488
#3	.0127651	.0107424	.0094355	16.21088	.0198236	.0218488

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104425	.1166641	.0085893	.4937519	.0367780	.0043000
Stddev	.0003113	.0016039	.0002129	.0051075	.0007730	.0002774
%RSD	2.981456	1.374782	2.478128	1.034420	2.101871	6.451199
#1	.0107610	.1180622	.0083541	.4881332	.0365573	.0040925
#2	.0104277	.1149132	.0086450	.4950090	.0376374	.0041925
#3	.0101389	.1170169	.0087687	.4981134	.0361393	.0046151

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2003.759	.0090536	.0139578	2.937011	.0308511	.3385487
Stddev	86.479	.0009278	.0000676	.094679	.0009872	.0003894
%RSD	4.315843	10.24807	.4840021	3.223661	3.199711	.1150206
#1	2100.686	.0081135	.0138878	2.837619	.0298117	.3385769
#2	1976.093	.0090785	.0139629	2.947272	.0317760	.3381460
#3	1934.499	.0099687	.0140226	3.026142	.0309656	.3389233

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01MSDDLX25 Acquired: 11/8/2024 22:53:02 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0274909	.0081908	.0660915	.3533614	F 1113.003	.0133699
Stddev	.0009535	.0005310	.0008150	.0026349	3.040	.0013352
%RSD	3.468440	6.483361	1.233112	.7456671	.2731006	9.986525
#1	.0273316	.0083310	.0659829	.3559439	1112.271	.0127591
#2	.0285140	.0076037	.0669554	.3506770	1116.342	.0124494
#3	.0266270	.0086376	.0653363	.3534631	1110.396	.0149013

Elem	Sr4077
Units	ppm
Avg	.0257978
Stddev	.0003863
%RSD	1.497308
#1	.0255174
#2	.0256377
#3	.0262384

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2782.264	49793.79	11531.97	1904.167	3563.508
Stddev	18.365	481.97	126.95	20.923	18.663
%RSD	.6600791	.9679258	1.100835	1.098805	.5237134
#1	2766.784	49244.08	11670.16	1880.058	3546.679
#2	2802.556	50143.83	11505.20	1914.867	3583.579
#3	2777.451	49993.46	11420.53	1917.576	3560.267

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01ADLX25 Acquired: 11/8/2024 23:07:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0352327	.0704392	.0382151	.0796143	.0269450	.0696913
Stddev	.0021822	.0023756	.0013283	.0020836	.0014124	.0021596
%RSD	6.193779	3.372572	3.475897	2.617117	5.241784	3.098816
#1	.0375474	.0700869	.0393413	.0818857	.0273330	.0720446
#2	.0349377	.0729713	.0385537	.0791654	.0281229	.0692292
#3	.0332129	.0682594	.0367502	.0777917	.0253792	.0678002

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113854	.0096558	.0082193	14.91372	.0175442	.0189435
Stddev	.0003680	.0001131	.0001553	.10951	.0001950	.0004194
%RSD	3.232550	1.171574	1.889335	.7342964	1.111688	2.213814
#1	.0115949	.0097861	.0083840	15.03833	.0174189	.0191371
#2	.0109605	.0095982	.0081983	14.83278	.0174448	.0192312
#3	.0116010	.0095830	.0080755	14.87005	.0177689	.0184623

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091201	.1083810	.0081912	.4610694	.0317772	.0040781
Stddev	.0003298	.0027992	.0001195	.0121134	.0007138	.0000972
%RSD	3.616347	2.582719	1.458896	2.627234	2.246297	2.382518
#1	.0094998	.1093715	.0082874	.4739550	.0320064	.0041057
#2	.0089554	.1105503	.0082287	.4499144	.0323483	.0039702
#3	.0089051	.1052213	.0080574	.4593389	.0309770	.0041585

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1928.334	.0094808	.0125078	2.560736	.0282413	.2985119
Stddev	40.141	.0003752	.0001252	.110869	.0002695	.0045959
%RSD	2.081621	3.957369	1.001227	4.329572	.9543468	1.539611
#1	1973.027	.0099063	.0126423	2.447767	.0285525	.3015071
#2	1916.625	.0091973	.0124866	2.565061	.0280877	.3008083
#3	1895.350	.0093389	.0123946	2.669379	.0280837	.2932204

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: P4681-01ADLX25 Acquired: 11/8/2024 23:07:41 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231382	.0077165	.0572938	.3025503	F 983.7180	.0097547
Stddev	.0010379	.0003957	.0018919	.0038381	20.5093	.0003317
%RSD	4.485505	5.127961	3.302056	1.268598	2.084879	3.400508
#1	.0242201	.0079062	.0584165	.3056109	995.2321	.0094759
#2	.0230437	.0072617	.0551095	.3037961	995.8830	.0101216
#3	.0221508	.0079817	.0583553	.2982441	960.0388	.0096667

Elem	Sr4077
Units	ppm
Avg	.0245900
Stddev	.0001168
%RSD	.4749217
#1	.0247242
#2	.0245347
#3	.0245112

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3017.781	52336.89	12106.99	2001.004	3890.003
Stddev	40.768	444.28	164.10	34.854	56.596
%RSD	1.350936	.8488845	1.355407	1.741840	1.454919
#1	2971.297	51829.53	11918.59	1962.141	3829.553
#2	3034.580	52656.34	12218.73	2029.494	3898.721
#3	3047.465	52524.80	12183.66	2011.378	3941.734

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV10 Acquired: 11/8/2024 23:24:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.343399	4.927188	4.981061	4.899817	4.639552	10.06054
Stddev	.059400	.070828	.048472	.058539	.064507	.00527
%RSD	1.111650	1.437485	.9731264	1.194711	1.390361	.0524093
#1	5.324511	4.959058	4.958130	4.889961	4.605446	10.06663
#2	5.295739	4.846025	4.948309	4.846832	4.599258	10.05740
#3	5.409946	4.976482	5.036744	4.962658	4.713952	10.05759

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.546895	.2590495	2.425619	22.80671	1.002344	2.528933
Stddev	.084985	.0011571	.021609	.04916	.004611	.025839
%RSD	.8901844	.4466531	.8908776	.2155409	.4600699	1.021734
#1	9.567937	.2603849	2.415284	22.81202	1.003335	2.516241
#2	9.453366	.2583466	2.411118	22.75511	1.006380	2.511895
#3	9.619383	.2584169	2.450455	22.85300	.997318	2.558664

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.134985	5.150748	2.379426	24.12779	2.356825	1.269995
Stddev	.013764	.035136	.006319	.10236	.023816	.002983
%RSD	1.212691	.6821491	.2655568	.4242327	1.010531	.2348602
#1	1.128837	5.110523	2.374389	24.06070	2.343738	1.266553
#2	1.125367	5.166281	2.377373	24.07706	2.342422	1.271824
#3	1.150751	5.175441	2.386516	24.24560	2.384316	1.271608

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.07293	2.610706	2.688127	26.34815	4.890132	5.131306
Stddev	.37550	.003015	.003741	.11438	.021101	.062840
%RSD	1.440201	.1154986	.1391556	.4341073	.4314922	1.224633
#1	26.36497	2.609128	2.688016	26.27451	4.910787	5.111389
#2	26.20447	2.608808	2.684443	26.47992	4.868612	5.080838
#3	25.64936	2.614183	2.691922	26.29002	4.890998	5.201690

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCV10 Acquired: 11/8/2024 23:24:00 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 4.405894	F 3.997784	F 3.779517	4.608194	F 4.363590	F 3.357515
Stddev	.038523	.003293	.021888	.060931	.042955	.010842
%RSD	.8743481	.0823772	.5791193	1.322230	.9843876	.3229116
#1	4.389819	4.001046	3.754482	4.571492	4.350170	3.355444
#2	4.378012	3.997846	3.795038	4.574562	4.328947	3.369242
#3	4.449851	3.994460	3.789030	4.678529	4.411652	3.347857

Elem	Sr4077
Units	ppm
Avg	F 3.883724
Stddev	.008651
%RSD	.2227467
#1	3.873736
#2	3.888604
#3	3.888832

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3717.355	73112.82	15150.46	2631.512	5487.862
Stddev	47.002	203.35	32.08	18.792	65.953
%RSD	1.264387	.2781301	.2117383	.7141054	1.201802
#1	3730.312	73347.13	15135.28	2649.321	5509.391
#2	3756.519	72982.36	15187.31	2633.343	5540.361
#3	3665.234	73008.97	15128.79	2611.872	5413.835

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

Sample Name: CCB10 Acquired: 11/8/2024 23:35:04 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011321	.0009876	-.000173	.0003851	-.000667	.0023448
Stddev	.0018177	.0009634	.000148	.0008465	.000900	.0040938
%RSD	160.5559	97.55385	85.51015	219.7932	134.9252	174.5861
#1	.0014770	.0010359	-.000166	.0002293	-.000634	.0043056
#2	.0027527	.0000009	-.000029	-.000373	.000216	-.002361
#3	-.000833	.0019259	-.000325	.001299	-.001583	.005089

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038335	.0000644	.0000652	-.041974	-.001061	.0000484
Stddev	.0003045	.0000424	.0001099	.002423	.000246	.0000826
%RSD	7.943431	65.86107	168.5758	5.772436	23.21117	170.6800
#1	.0035282	.0000210	-.000029	-.043763	-.001234	-.000046
#2	.0038351	.0001057	.000039	-.042942	-.000779	.000086
#3	.0041372	.0000664	.000186	-.039217	-.001169	.000105

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000377	-.011642	-.000240	.0055869	-.000207	.0007790
Stddev	.000093	.001184	.000263	.0009392	.000154	.0002582
%RSD	24.53326	10.16777	109.4471	16.81110	74.08182	33.13929
#1	-.000293	-.010426	-.000031	.0065689	-.000060	.0010308
#2	-.000362	-.012791	-.000536	.0046973	-.000366	.0005149
#3	-.000476	-.011709	-.000154	.0054945	-.000196	.0007915

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7422814	.0003647	-.003086	.1690981	-.000490	-.000101
Stddev	.0538161	.0009610	.000138	.0097061	.000279	.000131
%RSD	7.250094	263.4976	4.466569	5.739917	56.96623	130.0808
#1	.6812163	-.000734	-.002929	.1755124	-.000649	-.000220
#2	.7628409	.000780	-.003138	.1579316	-.000654	.000040
#3	.7827871	.001048	-.003190	.1738502	-.000168	-.000122

Reviewed By:kareem
On:11/12/2024 2:08:18 PM
Inst Id :P4
LB :LB133365

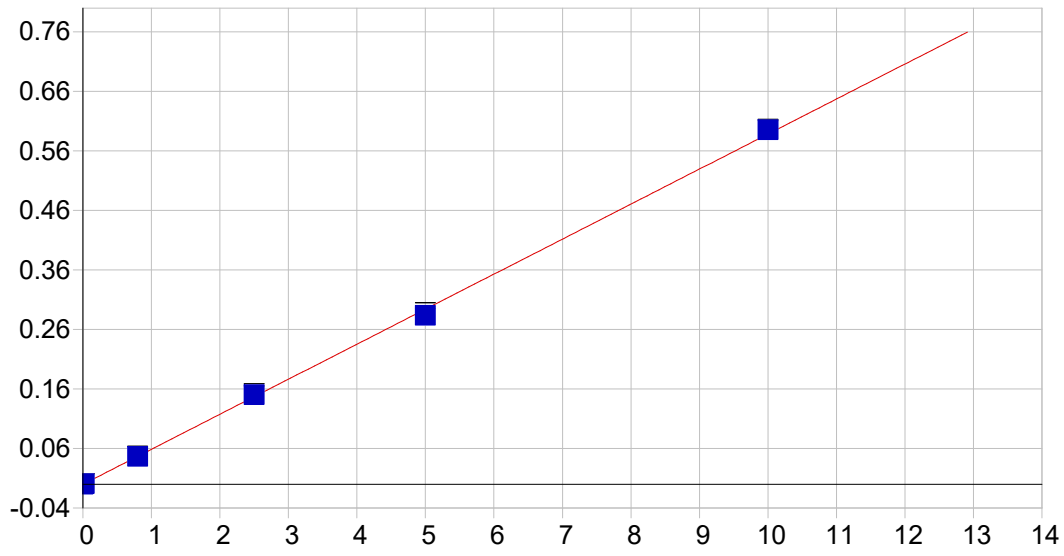
Sample Name: CCB10 Acquired: 11/8/2024 23:35:04 Type: Unk
Method: NON EPA-6010-200.7(v2466) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003797	.0001661	-.014240	F -.014613	F .0443108	-.000223
Stddev	.000220	.0001989	.005004	.000109	.0027079	.001187
%RSD	5.782716	119.7506	35.14121	.7444320	6.111244	532.7971
#1	-.003962	-.000012	-.016605	-.014511	.0463979	-.001484
#2	-.003548	.000130	-.017623	-.014601	.0452837	.000874
#3	-.003881	.000381	-.008492	-.014727	.0412509	-.000059

Elem	Sr4077
Units	ppm
Avg	.0000348
Stddev	.0000452
%RSD	129.7298
#1	-.000006
#2	.000026
#3	.000084

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3552.141	70371.06	13950.95	2508.308	5725.470
Stddev	3.240	99.28	11.07	25.351	11.532
%RSD	.0912102	.1410870	.0793596	1.010671	.2014090
#1	3554.744	70265.74	13953.72	2503.512	5729.331
#2	3553.166	70384.50	13938.76	2485.698	5712.504
#3	3548.512	70462.94	13960.38	2535.714	5734.577

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



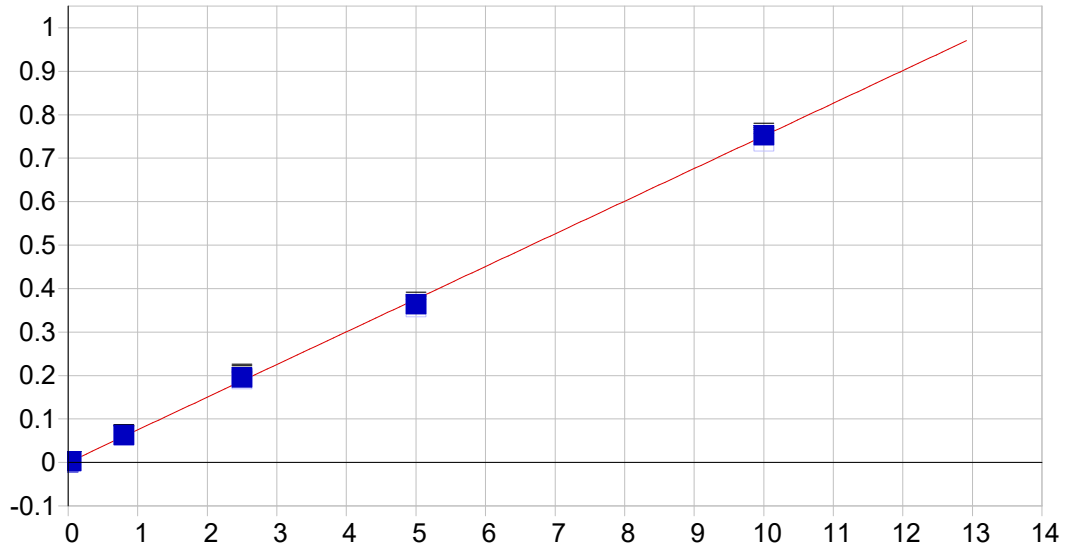
As 189.042 {479}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000188	Re-Slope:	1.000000
A1 (Gain):	0.058857	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999749	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.002453		
Predicted MQL:	0.008175		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00019	.000	1
S1	.02000	.01890	-.001	-5.49	.00092	.000	1
S3	2.5000	2.5570	.057	2.28	.15015	.002	1
S4	5.0000	4.8231	-.177	-3.54	.28337	.005	1
S5	10.000	10.124	.124	1.24	.59504	.001	1
S2	.80000	.79708	-.003	-.365	.04668	.001	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



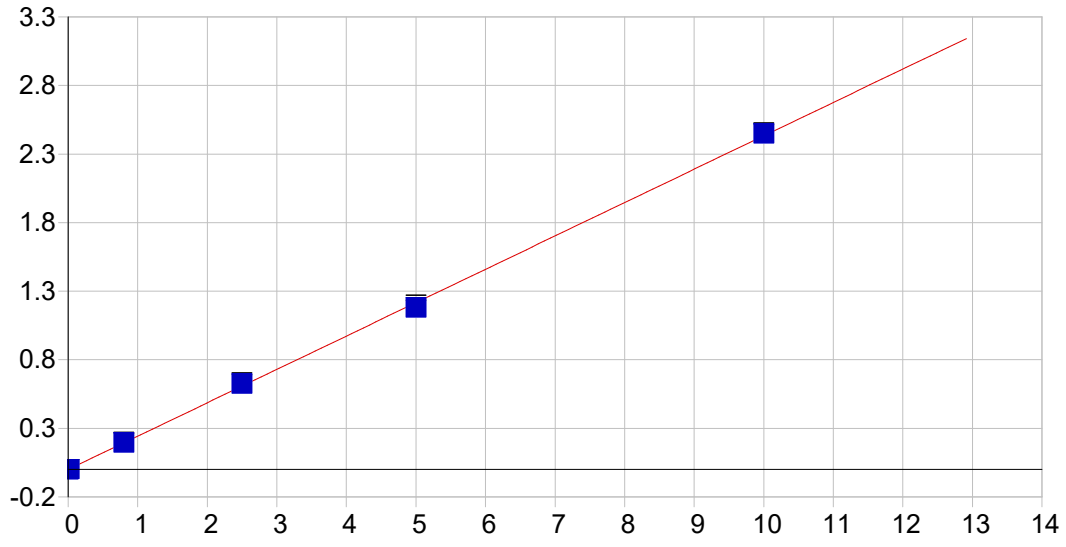
Tl 190.856 {477}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000064	Re-Slope:	1.000000
A1 (Gain):	0.075140	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999704	Status:	OK.
Std Error of Est:	0.000059		
Predicted MDL:	0.001615		
Predicted MQL:	0.005383		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00006	.000	1
S1	.04000	.03876	-.001	-3.11	.00265	.000	1
S3	2.5000	2.5971	.097	3.88	.19162	.008	1
S4	5.0000	4.8465	-.154	-3.07	.35718	.005	1
S5	10.000	10.019	.019	.186	.73890	.005	1
S2	.80000	.83897	.039	4.87	.06187	.001	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



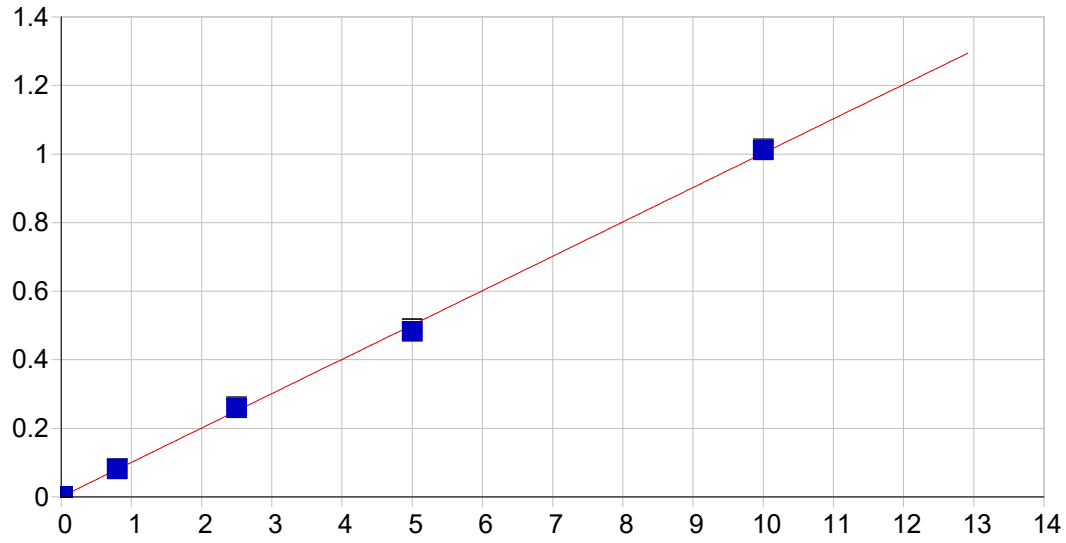
Pb 220.353 {453}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000249	Re-Slope:	1.000000
A1 (Gain):	0.243318	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999802	Status:	OK.
Std Error of Est:	0.000088		
Predicted MDL:	0.001011		
Predicted MQL:	0.003368		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00025	.000	1
S1	.01200	.01036	-.002	-13.7	.00221	.000	1
S3	2.5000	2.5731	.073	2.92	.62516	.006	1
S4	5.0000	4.8524	-.148	-2.95	1.1791	.019	1
S5	10.000	10.071	.071	.708	2.4475	.005	1
S2	.80000	.80534	.005	.668	.19549	.003	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



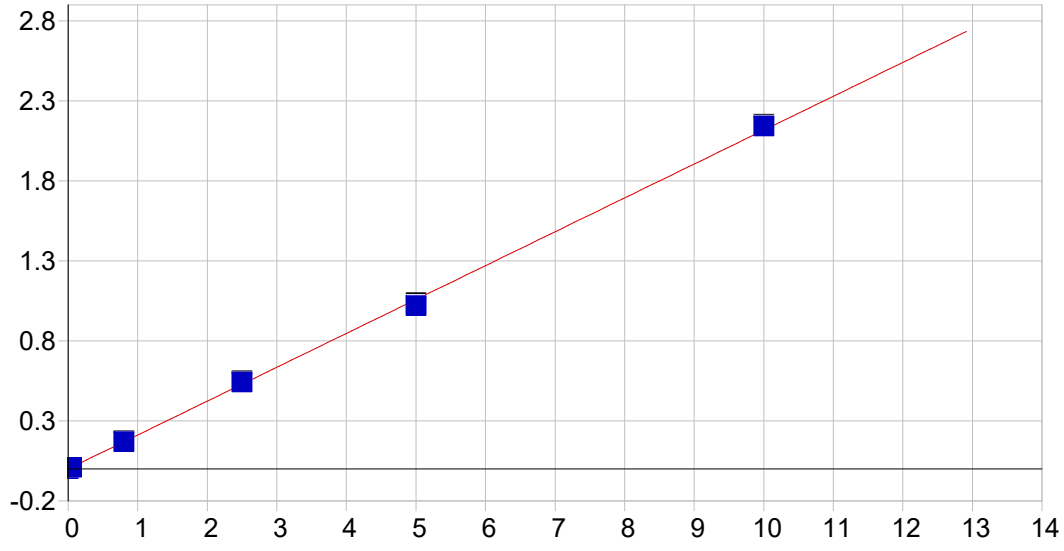
Se 196.090 {472}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000500	Re-Slope:	1.000000
A1 (Gain):	0.100183	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999711	Status:	OK.
Std Error of Est:	0.000056		
Predicted MDL:	0.001941		
Predicted MQL:	0.006471		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00050	.000	1
S1	.02000	.01893	-.001	-5.35	.00240	.000	1
S3	2.5000	2.5813	.081	3.25	.25903	.004	1
S4	5.0000	4.8147	-.185	-3.71	.48272	.007	1
S5	10.000	10.096	.096	.960	1.0117	.003	1
S2	.80000	.80910	.009	1.14	.08154	.001	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



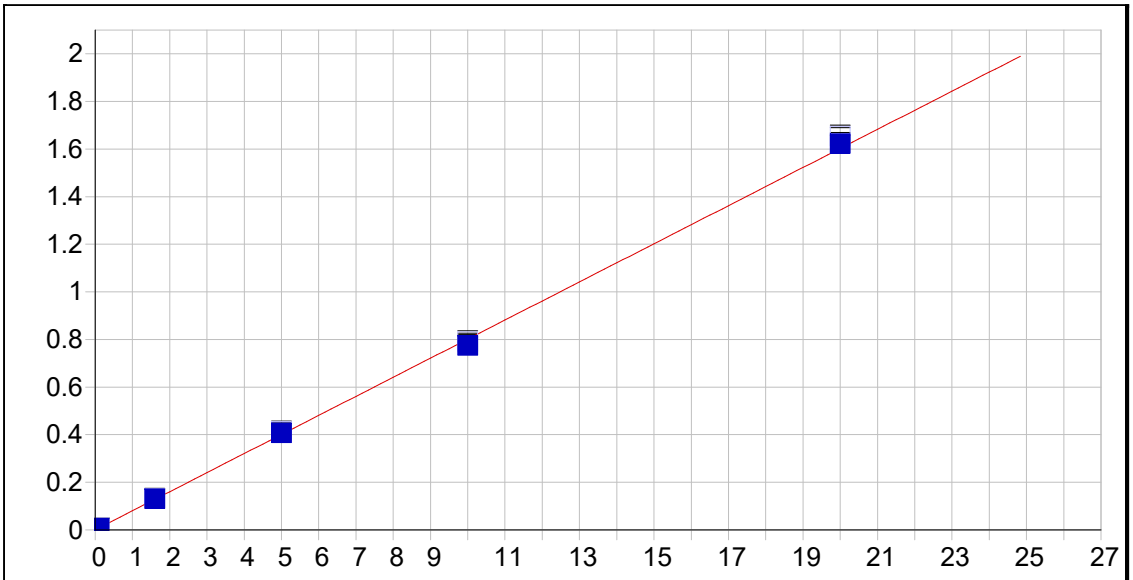
Sb 206.833 {463}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000178	Re-Slope:	1.000000
A1 (Gain):	0.211700	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999741	Status:	OK.
Std Error of Est:	0.000179		
Predicted MDL:	0.001112		
Predicted MQL:	0.003706		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00018	.000	1
S1	.05000	.04694	-.003	-6.13	.01014	.000	1
S3	2.5000	2.5590	.059	2.36	.54335	.007	1
S4	5.0000	4.8195	-.180	-3.61	1.0233	.014	1
S5	10.000	10.119	.119	1.19	2.1481	.006	1
S2	.80000	.80549	.005	.687	.17116	.002	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



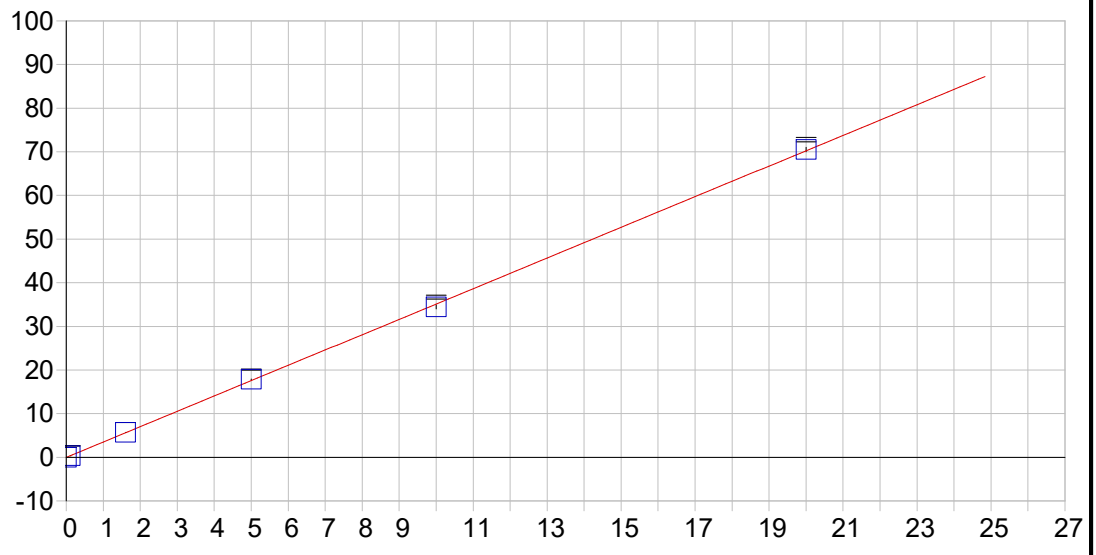
Al 396.152 { 85}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000332	Re-Slope:	1.000000
A1 (Gain):	0.080121	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999796	Status:	OK.
Std Error of Est:	0.000122		
Predicted MDL:	0.004993		
Predicted MQL:	0.016644		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00033	.000	1
S1	.10000	.09784	-.002	-2.16	.00879	.000	1
S3	5.0000	5.0743	.074	1.49	.41466	.001	1
S4	10.000	9.6648	-.335	-3.35	.79023	.005	1
S5	20.000	20.247	.247	1.23	1.6536	.006	1
S2	1.6000	1.6162	.016	1.01	.13231	.001	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



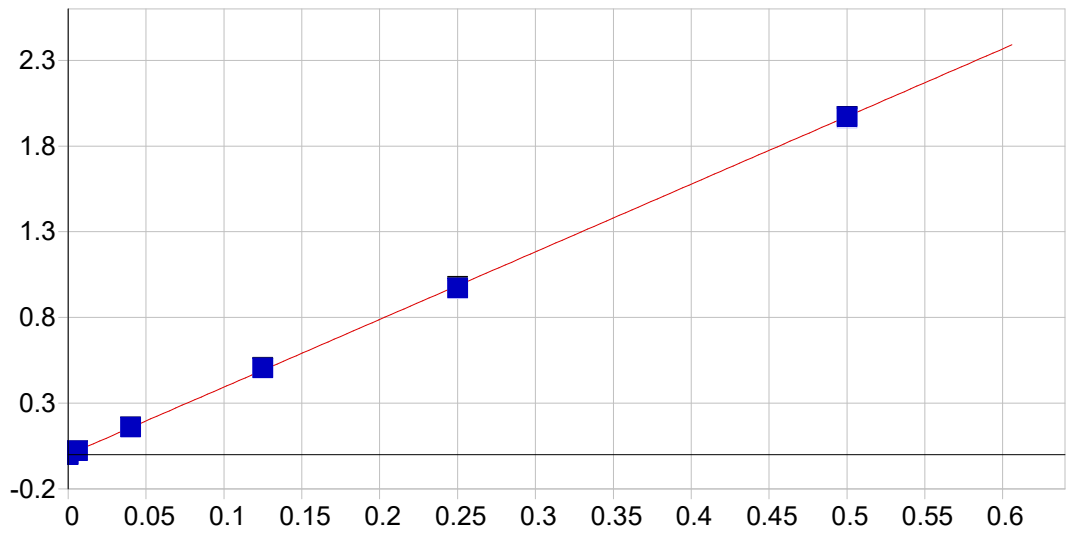
Ba 493.409 { 68}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.017204	Re-Slope:	1.000000
A1 (Gain):	3.513607	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999919	Status:	OK.
Std Error of Est:	0.003308		
Predicted MDL:	0.000414		
Predicted MQL:	0.001379		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.01720	.001	1
S1	.10000	.09749	-.003	-2.51	.32532	.001	1
S3	5.0000	5.0843	.084	1.69	17.847	.111	1
S4	10.000	9.8090	-.191	-1.91	34.448	.456	1
S5	20.000	20.083	.083	.413	70.545	.511	1
S2	1.6000	1.6266	.027	1.66	5.6979	.027	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



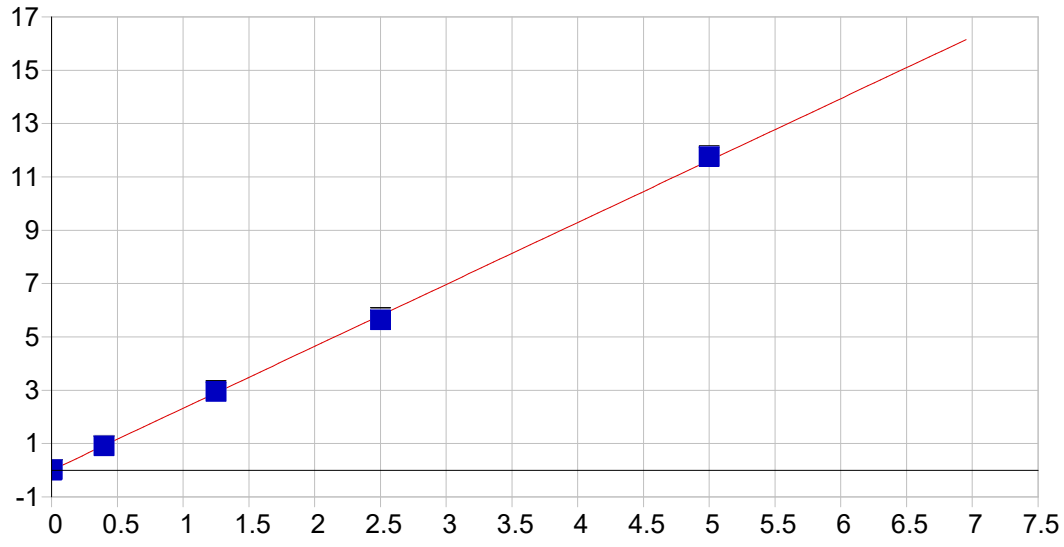
Be 234.861 {144}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000641	Re-Slope:	1.000000
A1 (Gain):	3.945453	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000159		
Predicted MDL:	0.000054		
Predicted MQL:	0.000181		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00064	.000	1
S1	.00600	.00566	-.000	-5.64	.02152	.000	1
S3	.12500	.12842	.003	2.73	.50381	.002	1
S4	.25000	.24636	-.004	-1.46	.96693	.010	1
S5	.50000	.49977	-.000	-.046	1.9623	.002	1
S2	.04000	.04080	.001	1.99	.15961	.001	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



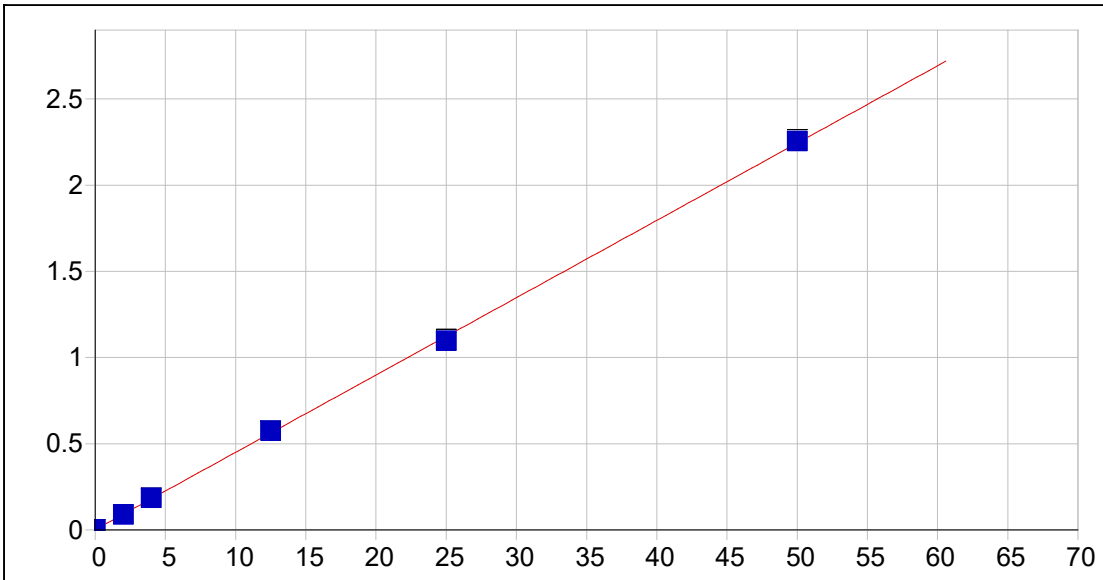
Cd 226.502 {449}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000032	Re-Slope:	1.000000
A1 (Gain):	2.322570	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999809	Status:	OK.
Std Error of Est:	0.000412		
Predicted MDL:	0.000082		
Predicted MQL:	0.000272		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00003	.000	1
S1	.00600	.00657	.001	9.52	.01529	.000	1
S3	1.2500	1.2699	.020	1.59	2.9515	.036	1
S4	2.5000	2.4248	-.075	-3.01	5.6361	.087	1
S5	5.0000	5.0614	.061	1.23	11.764	.028	1
S2	.40000	.39333	-.007	-1.67	.91418	.015	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



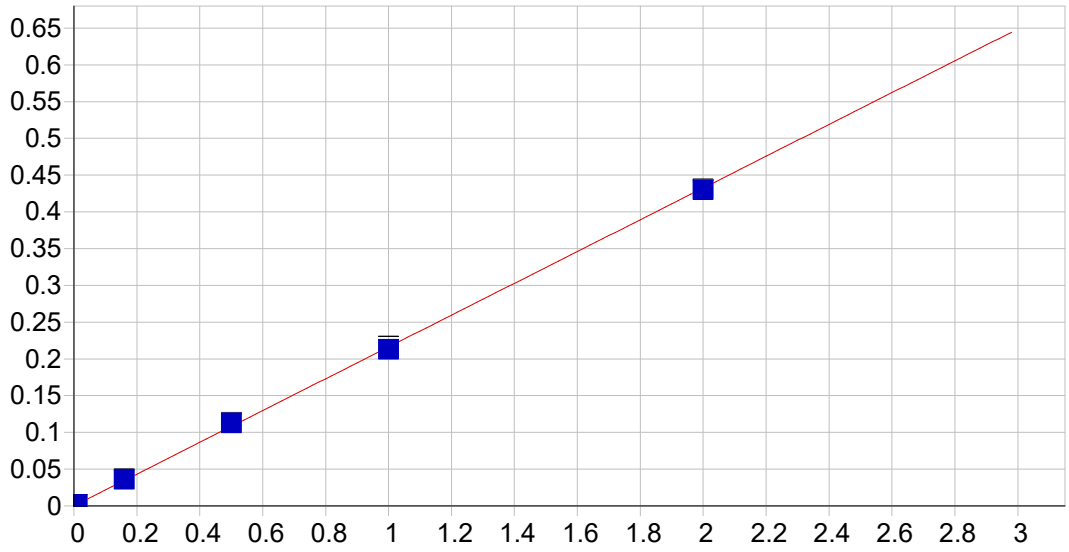
Ca 373.690 { 90}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001636	Re-Slope:	1.000000
A1 (Gain):	0.044851	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999866	Status:	OK.
Std Error of Est:	0.000388		
Predicted MDL:	0.008300		
Predicted MQL:	0.027665		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00164	.000	1
S2	4.0000	4.0942	.094	2.35	.18526	.001	1
S3	12.500	12.779	.279	2.23	.57480	.000	1
S4	25.000	24.425	-.575	-2.30	1.0971	.009	1
S5	50.000	50.263	.263	.527	2.2560	.009	1
S1	2.0000	1.9379	-.062	-3.11	.08855	.000	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



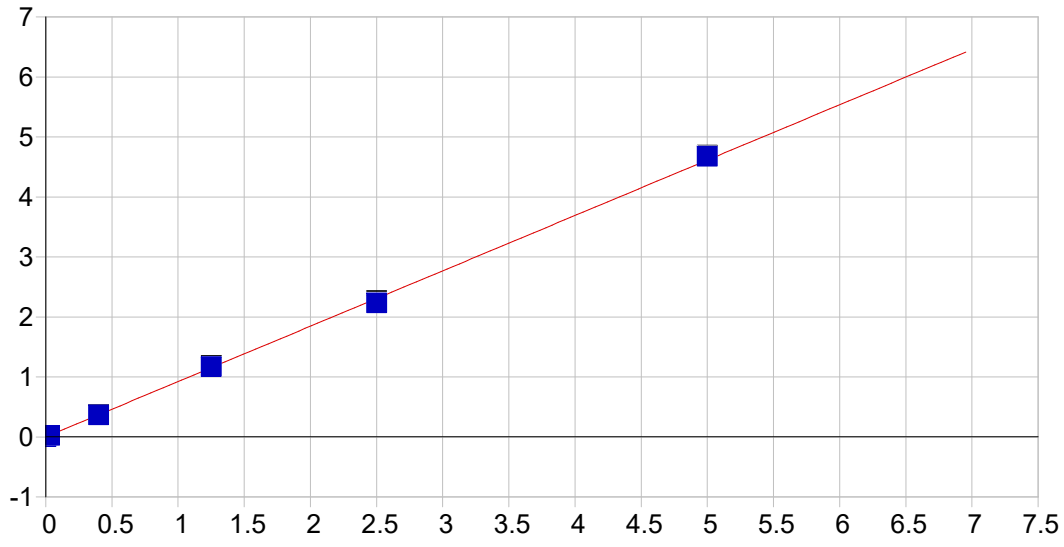
Cr 267.716 {126}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000022	Re-Slope:	1.000000
A1 (Gain):	0.216251	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999807	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.000338		
Predicted MQL:	0.001127		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00002	.000	1
S1	.01000	.00937	-.001	-6.27	.00205	.000	1
S3	.50000	.52085	.021	4.17	.11269	.001	1
S4	1.0000	.98511	-.015	-1.49	.21312	.004	1
S5	2.0000	1.9887	-.011	-.566	.43021	.001	1
S2	.16000	.16598	.006	3.74	.03593	.001	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



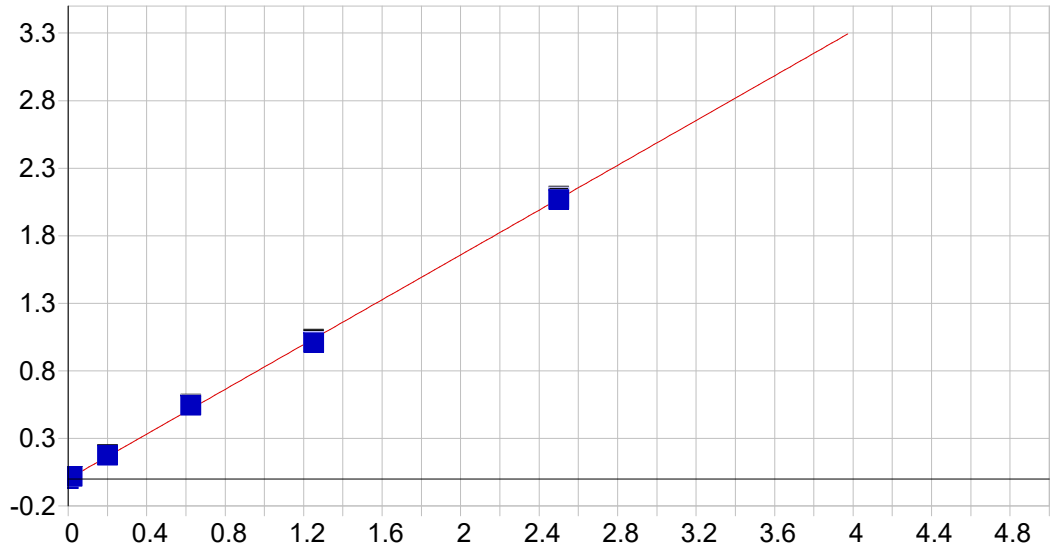
Co 228.616 {448}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000072	Re-Slope:	1.000000
A1 (Gain):	0.922624	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999772	Status:	OK.
Std Error of Est:	0.000401		
Predicted MDL:	0.000184		
Predicted MQL:	0.000615		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00007	.000	1
S1	.03000	.02832	-.002	-5.60	.02594	.000	1
S3	1.2500	1.2703	.020	1.63	1.1739	.014	1
S4	2.5000	2.4167	-.083	-3.33	2.2336	.034	1
S5	5.0000	5.0692	.069	1.38	4.6847	.009	1
S2	.40000	.39542	-.005	-1.15	.36537	.006	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



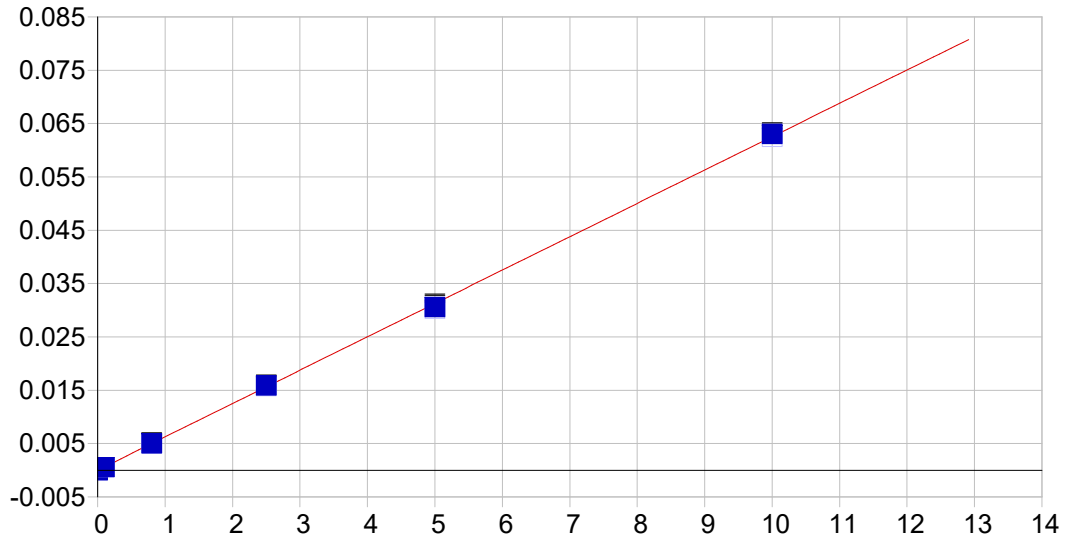
Cu 224.700 {450}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000268	Re-Slope:	1.000000
A1 (Gain):	0.829014	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999688	Status:	OK.
Std Error of Est:	0.000245		
Predicted MDL:	0.000370		
Predicted MQL:	0.001234		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00027	.000	1
S1	.02000	.02124	.001	6.19	.01755	.000	1
S3	.62500	.65484	.030	4.77	.54754	.005	1
S4	1.2500	1.2156	-.034	-2.75	1.0174	.016	1
S5	2.5000	2.4937	-.006	-.252	2.0868	.007	1
S2	.20000	.20958	.010	4.79	.17506	.003	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



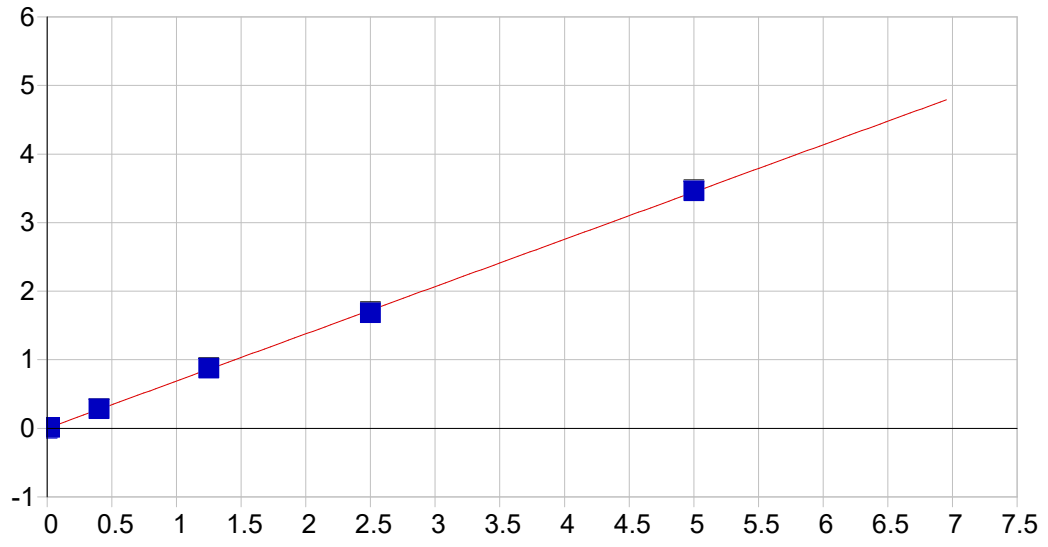
Fe 240.488 {140}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000000	Re-Slope:	1.000000
A1 (Gain):	0.006255	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999882	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.003705		
Predicted MQL:	0.012350		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00000	.000	1
S1	.10000	.09229	-.008	-7.71	.00057	.000	1
S3	2.5000	2.5372	.037	1.49	.01574	.000	1
S4	5.0000	4.8883	-.112	-2.23	.03031	.001	1
S5	10.000	10.075	.075	.748	.06248	.000	1
S2	.80000	.80730	.007	.912	.00501	.000	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



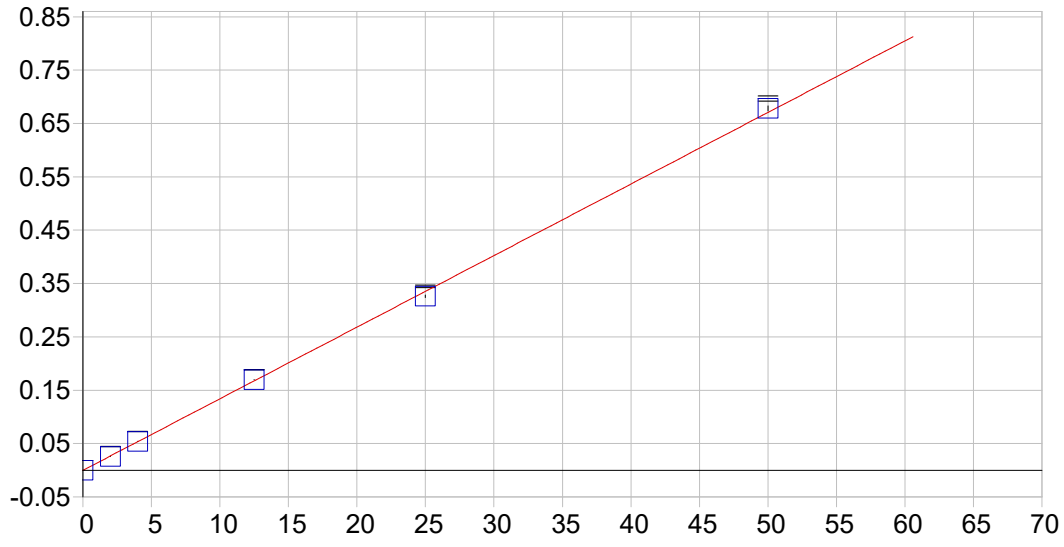
Mn 257.610 {131}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	0.689077	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999888	Status:	OK.
Std Error of Est:	0.000171		
Predicted MDL:	0.000245		
Predicted MQL:	0.000818		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.02000	.01990	-.000	-.497	.01371	.000	1
S3	1.2500	1.2722	.022	1.77	.87679	.003	1
S4	2.5000	2.4426	-.057	-2.30	1.6835	.014	1
S5	5.0000	5.0265	.027	.530	3.4643	.012	1
S2	.40000	.40883	.009	2.21	.28176	.002	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



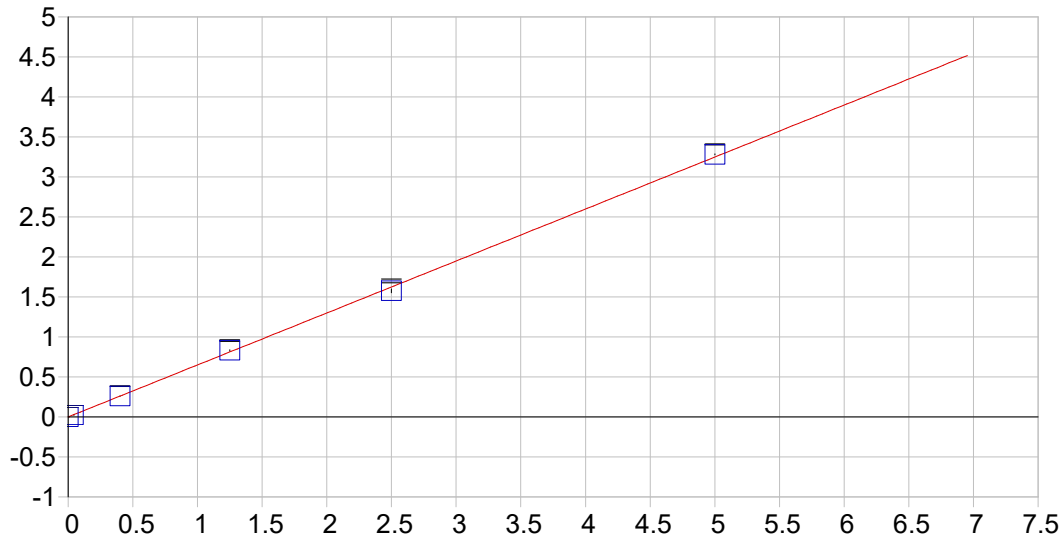
Mg 279.079 {121}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000180	Re-Slope:	1.000000
A1 (Gain):	0.013418	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999844	Status:	OK.
Std Error of Est:	0.000125		
Predicted MDL:	0.013319		
Predicted MQL:	0.044397		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00006	.000	.000	-.00018	.000	1
S2	4.0000	4.0320	.032	.800	.05392	.000	1
S3	12.500	12.652	.152	1.22	.16959	.000	1
S4	25.000	24.318	-.682	-2.73	.32612	.003	1
S5	50.000	50.562	.562	1.12	.67826	.005	1
S1	2.0000	1.9355	-.064	-3.22	.02579	.000	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



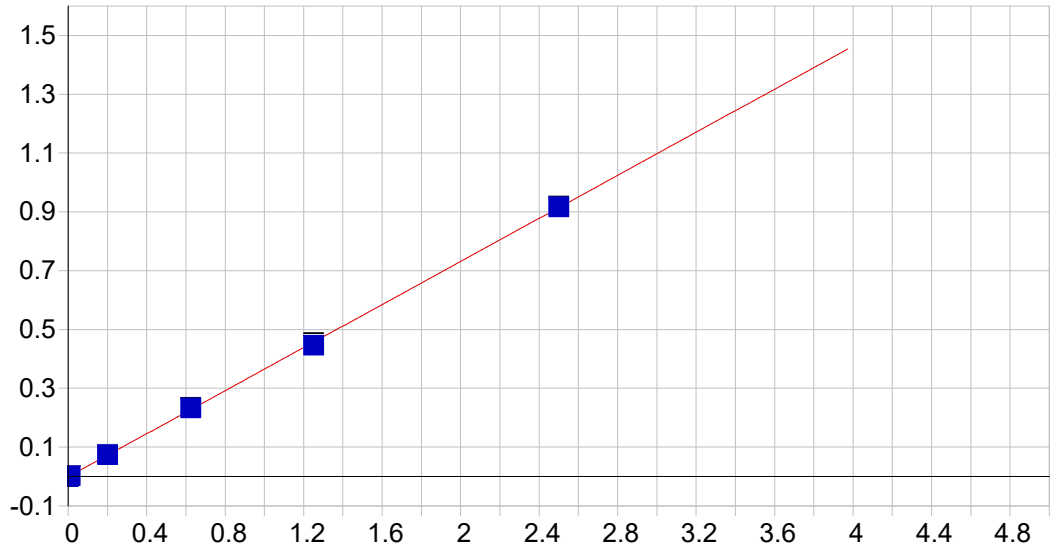
Ni 231.604 {446}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000237	Re-Slope:	1.000000
A1 (Gain):	0.649707	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999802	Status:	OK.
Std Error of Est:	0.000303		
Predicted MDL:	0.000294		
Predicted MQL:	0.000981		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00024	.000	1
S1	.04000	.03734	-.003	-6.65	.02402	.000	1
S3	1.2500	1.2792	.029	2.33	.83085	.010	1
S4	2.5000	2.4243	-.076	-3.03	1.5748	.024	1
S5	5.0000	5.0494	.049	.988	3.2804	.006	1
S2	.40000	.39980	-.000	-.050	.25952	.004	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



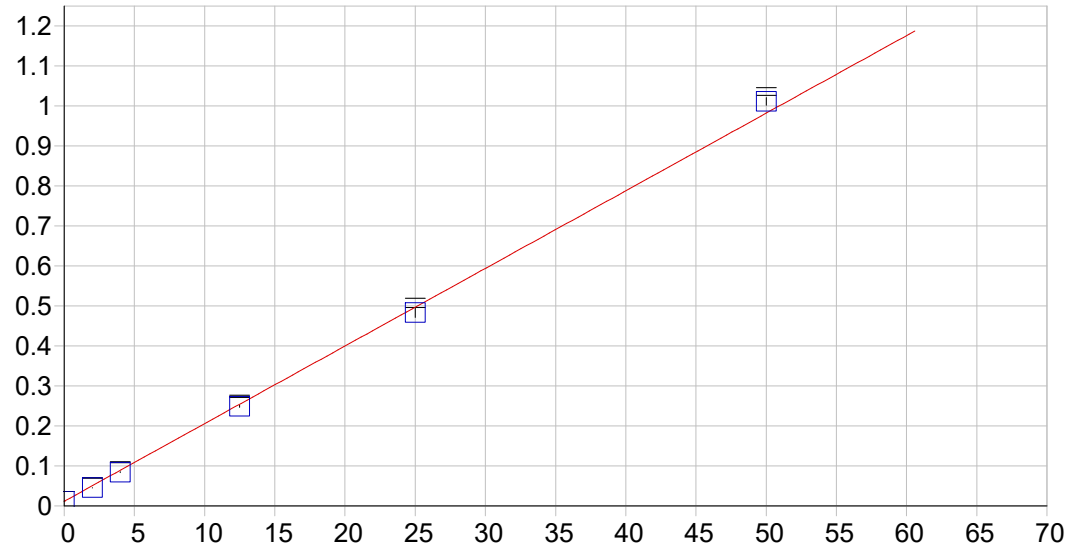
Ag 328.068 {103}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001064	Re-Slope:	1.000000
A1 (Gain):	0.366229	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.000047		
Predicted MDL:	0.000276		
Predicted MQL:	0.000919		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00106	.000	1
S1	.01000	.00940	-.001	-6.05	.00235	.000	1
S3	.62500	.63888	.014	2.22	.23200	.002	1
S4	1.2500	1.2224	-.028	-2.21	.44479	.008	1
S5	2.5000	2.5095	.009	.378	.91434	.002	1
S2	.20000	.20490	.005	2.45	.07369	.001	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



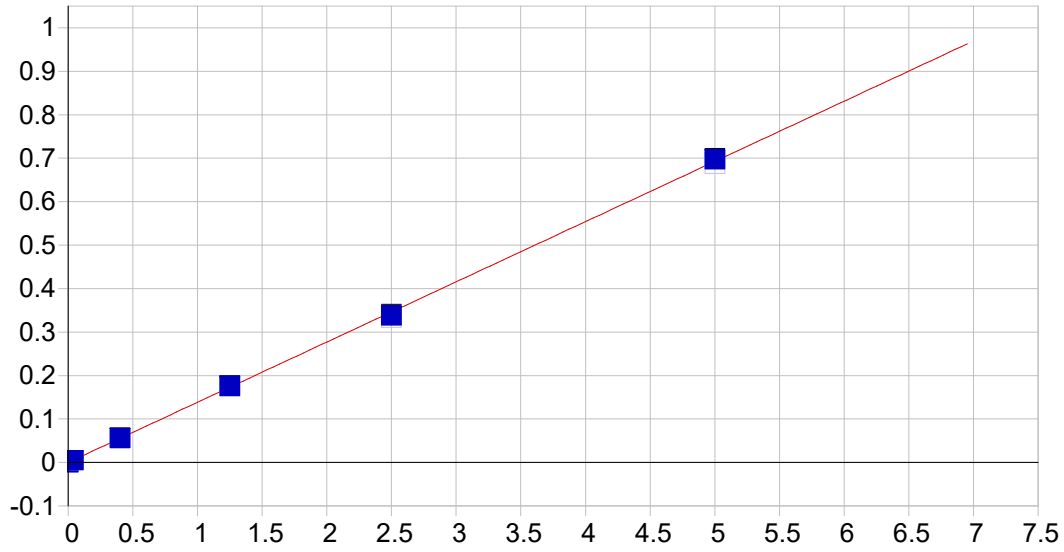
Na 589.592 { 57}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.011709	Re-Slope:	1.000000
A1 (Gain):	0.019409	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999330	Status:	OK.
Std Error of Est:	0.000376		
Predicted MDL:	0.007991		
Predicted MQL:	0.026638		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00044	.000	.000	.01172	.000	1
S2	4.0000	3.7361	-.264	-6.60	.08422	.001	1
S3	12.500	12.233	-.267	-2.13	.24915	.003	1
S4	25.000	24.295	-.705	-2.82	.48325	.012	1
S5	50.000	51.507	1.51	3.01	1.0114	.010	1
S1	2.0000	1.7285	-.272	-13.6	.04526	.000	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



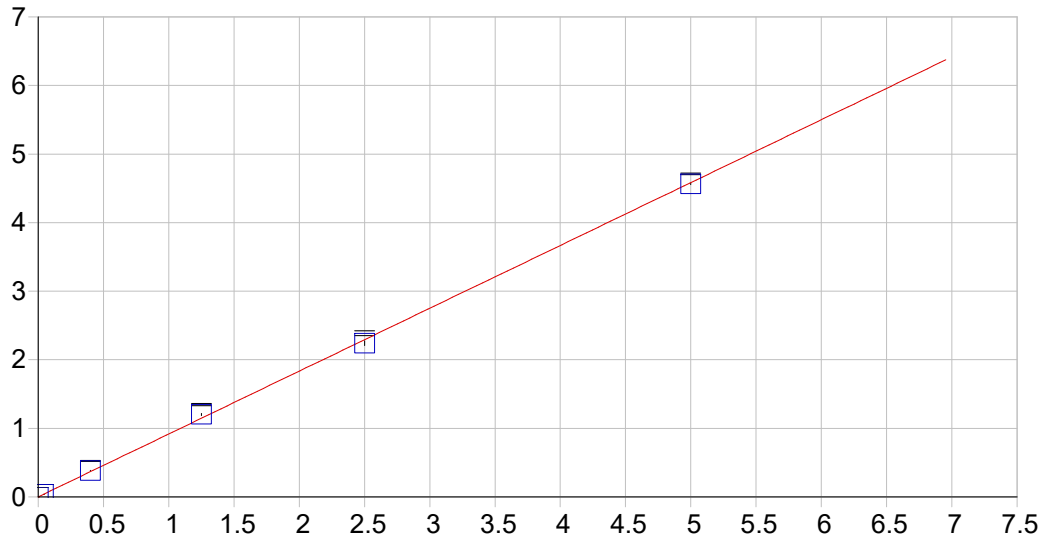
V 292.402 {115}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000029	Re-Slope:	1.000000
A1 (Gain):	0.138525	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.001321		
Predicted MQL:	0.004403		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00003	.000	1
S1	.04000	.03831	-.002	-4.22	.00507	.000	1
S3	1.2500	1.2719	.022	1.75	.17363	.000	1
S4	2.5000	2.4405	-.060	-2.38	.33299	.003	1
S5	5.0000	5.0343	.034	.687	.68725	.002	1
S2	.40000	.40494	.005	1.24	.05526	.000	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



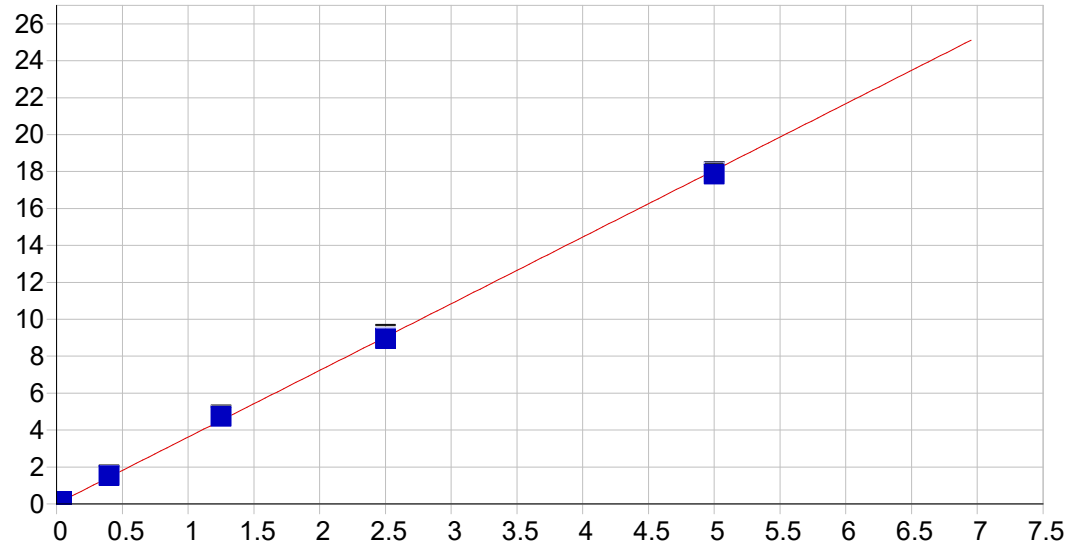
Zn 206.200 {464}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001207	Re-Slope:	1.000000
A1 (Gain):	0.916535	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999740	Status:	OK.
Std Error of Est:	0.000490		
Predicted MDL:	0.000208		
Predicted MQL:	0.000693		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00120	.000	1
S1	.04000	.04072	.001	1.81	.03853	.000	1
S3	1.2500	1.3103	.060	4.82	1.2021	.016	1
S4	2.5000	2.4443	-.056	-2.23	2.2415	.034	1
S5	5.0000	4.9801	-.020	-.399	4.5656	.011	1
S2	.40000	.41462	.015	3.66	.38122	.006	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



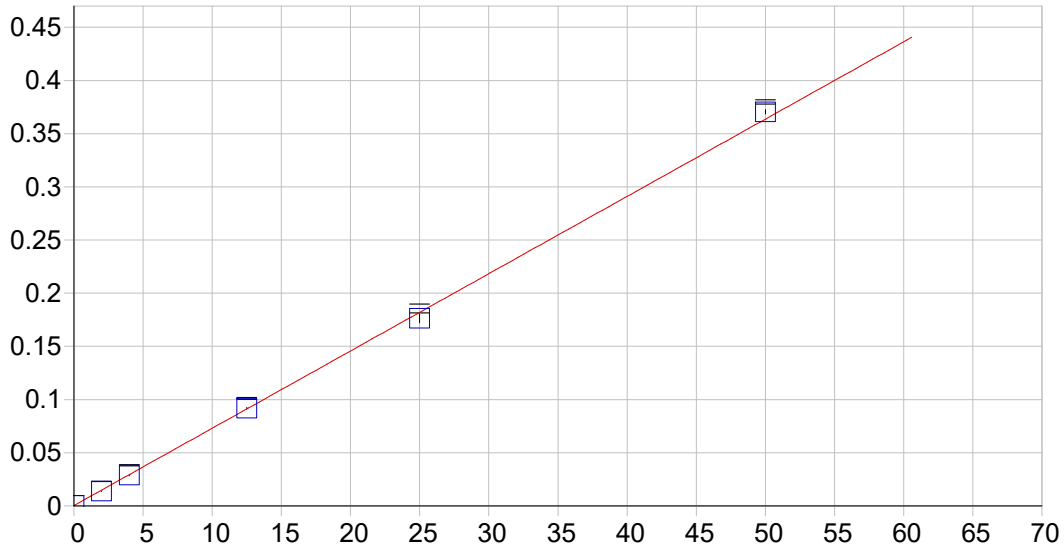
Zn 213.856 {158}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006434	Re-Slope:	1.000000
A1 (Gain):	3.611276	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999736	Status:	OK.
Std Error of Est:	0.001961		
Predicted MDL:	0.000226		
Predicted MQL:	0.000755		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00642	.000	1
S1	.04000	.04092	.001	2.31	.15523	.002	1
S3	1.2500	1.3099	.060	4.79	4.7683	.050	1
S4	2.5000	2.4763	-.024	-.949	9.0118	.167	1
S5	5.0000	4.9417	-.058	-1.17	17.978	.028	1
S2	.40000	.42117	.021	5.29	1.5374	.028	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



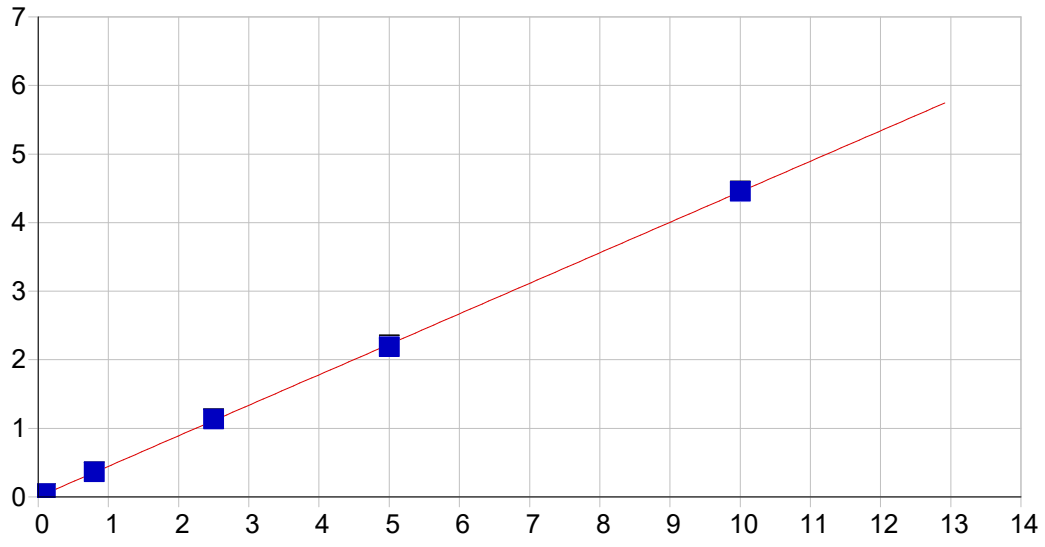
K 766.490 { 44}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000358	Re-Slope:	1.000000
A1 (Gain):	0.007267	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999697	Status:	OK.
Std Error of Est:	0.000095		
Predicted MDL:	0.022423		
Predicted MQL:	0.074744		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00021	.000	.000	.00036	.000	1
S2	4.0000	3.9294	-.071	-1.76	.02891	.001	1
S3	12.500	12.577	.077	.619	.09175	.001	1
S4	25.000	24.214	-.786	-3.14	.17631	.004	1
S5	50.000	50.938	.938	1.88	.37051	.002	1
S1	2.0000	1.8407	-.159	-7.96	.01373	.000	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



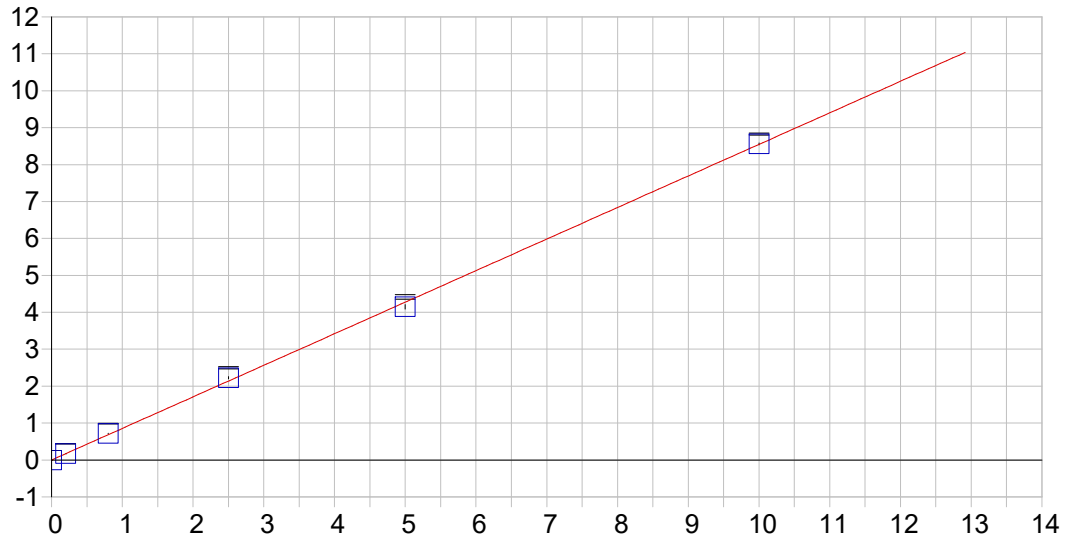
B 249.678 {135}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001410	Re-Slope:	1.000000
A1 (Gain):	0.444801	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999933	Status:	OK.
Std Error of Est:	0.000271		
Predicted MDL:	0.000582		
Predicted MQL:	0.001941		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00141	.000	1
S1	.10000	.09942	-.001	-.582	.04544	.000	1
S3	2.5000	2.5495	.049	1.98	1.1332	.005	1
S4	5.0000	4.9224	-.078	-1.55	2.1865	.025	1
S5	10.000	10.014	.014	.142	4.4470	.007	1
S2	.80000	.81455	.015	1.82	.36303	.001	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



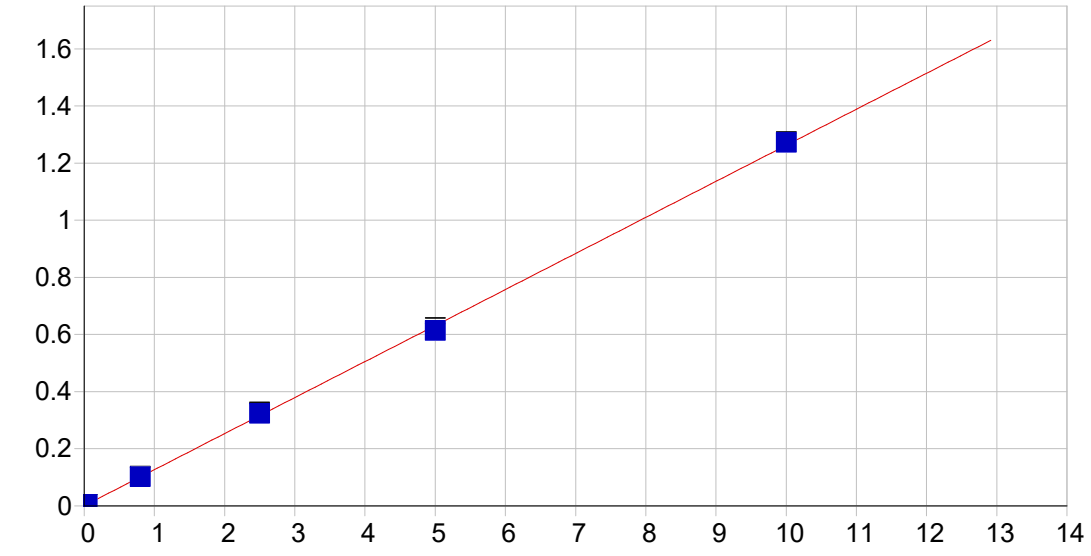
Mo 202.030 {467}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000053	Re-Slope:	1.000000
A1 (Gain):	0.854758	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999720	Status:	OK.
Std Error of Est:	0.001507		
Predicted MDL:	0.000236		
Predicted MQL:	0.000787		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00005	.000	1
S1	.20000	.19786	-.002	-1.07	.16918	.001	1
S3	2.5000	2.6045	.105	4.18	2.2263	.030	1
S4	5.0000	4.8517	-.148	-2.97	4.1471	.061	1
S5	10.000	10.010	.010	.105	8.5566	.025	1
S2	.80000	.83547	.035	4.43	.71418	.011	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



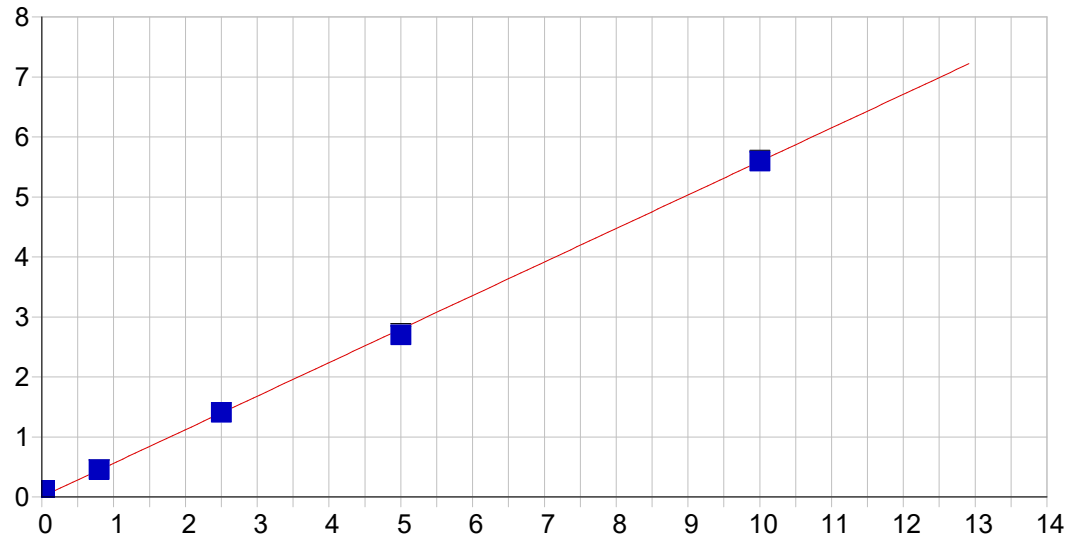
Sn 189.989 {478}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000593	Re-Slope:	1.000000
A1 (Gain):	0.126178	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999822	Status:	OK.
Std Error of Est:	0.000079		
Predicted MDL:	0.000702		
Predicted MQL:	0.002338		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00059	.000	1
S1	.04000	.03607	-.004	-9.83	.00514	.000	1
S3	2.5000	2.5622	.062	2.49	.32356	.004	1
S4	5.0000	4.8597	-.140	-2.81	.61314	.010	1
S5	10.000	10.079	.079	.791	1.2711	.003	1
S2	.80000	.80297	.003	.371	.10181	.002	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



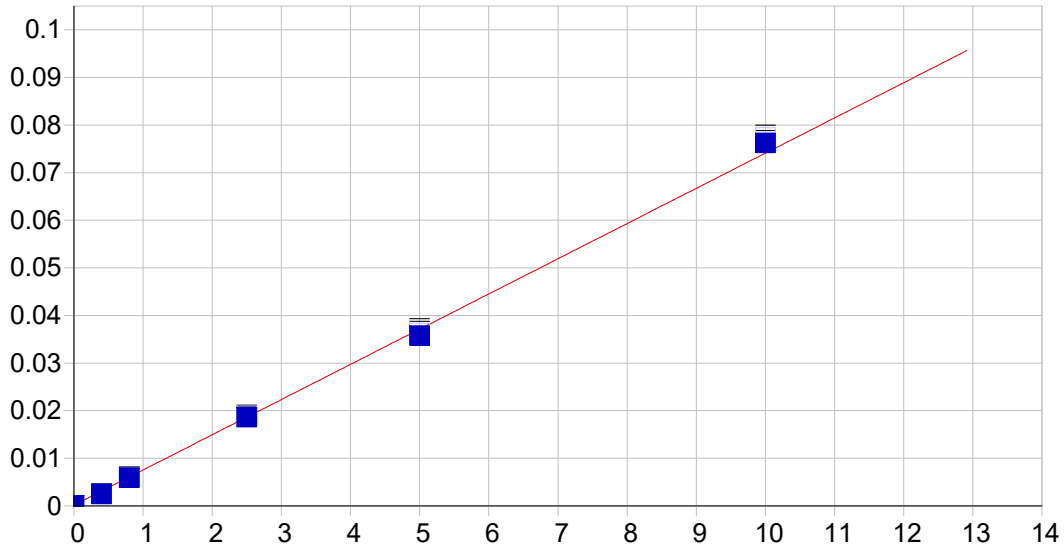
Ti 336.121 {100}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002037	Re-Slope:	1.000000
A1 (Gain):	0.558943	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.984917	Status:	OK.
Std Error of Est:	0.003254		
Predicted MDL:	0.000477		
Predicted MQL:	0.001589		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00195	.000	1
S1	.04000	.18949	.149	374.	.10794	.001	1
S3	2.5000	2.5142	.014	.569	1.4068	.002	1
S4	5.0000	4.8238	-.176	-3.52	2.6973	.022	1
S5	10.000	10.009	.009	.088	5.5944	.016	1
S2	.80000	.80369	.004	.462	.45109	.002	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



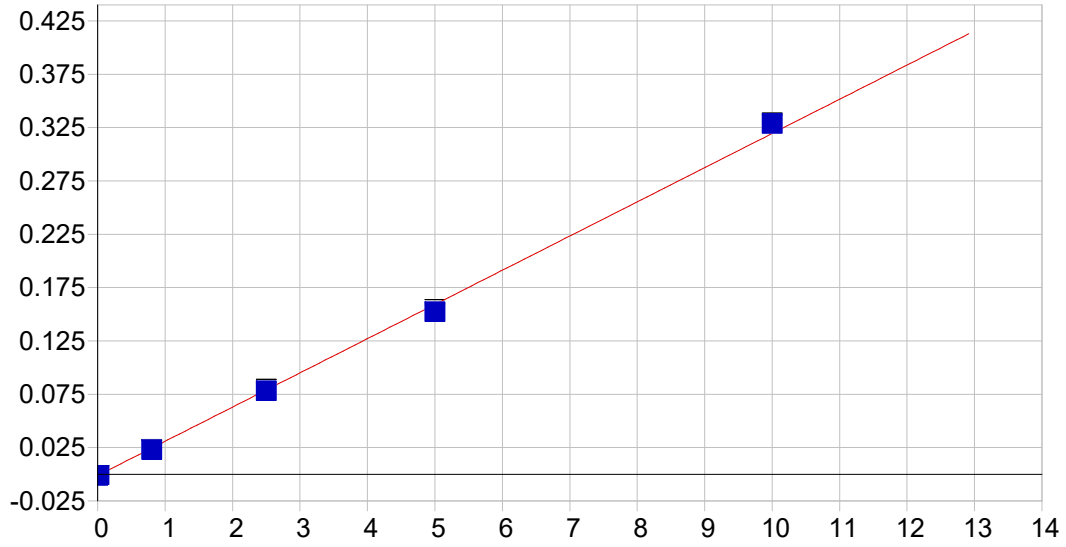
Si 288.158 {117}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000159	Re-Slope:	1.000000
A1 (Gain):	0.007394	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999144	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.005282		
Predicted MQL:	0.017607		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00010	.000	.000	.00016	.000	1
S1	.40000	.31652	-.083	-20.9	.00250	.000	1
S3	2.5000	2.4978	-.002	-.089	.01891	.000	1
S4	5.0000	4.8146	-.185	-3.71	.03632	.001	1
S5	10.000	10.288	.288	2.88	.07734	.001	1
S2	.80000	.78244	-.018	-2.19	.00603	.000	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



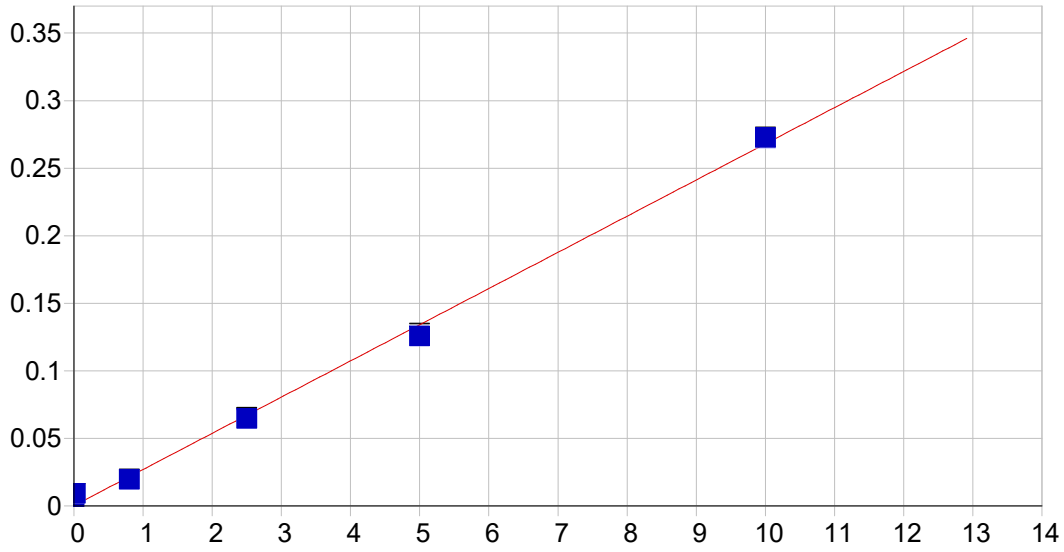
P 177.495 {490}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001184	Re-Slope:	1.000000
A1 (Gain):	0.032068	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999442	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.002543		
Predicted MQL:	0.008475		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00118	.000	1
S1	.02000	.01766	-.002	-11.7	-.00062	.000	1
S3	2.5000	2.4764	-.024	-.943	.07822	.002	1
S4	5.0000	4.7888	-.211	-4.22	.15236	.002	1
S5	10.000	10.285	.285	2.85	.32859	.001	1
S2	.80000	.75177	-.048	-6.03	.02292	.000	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



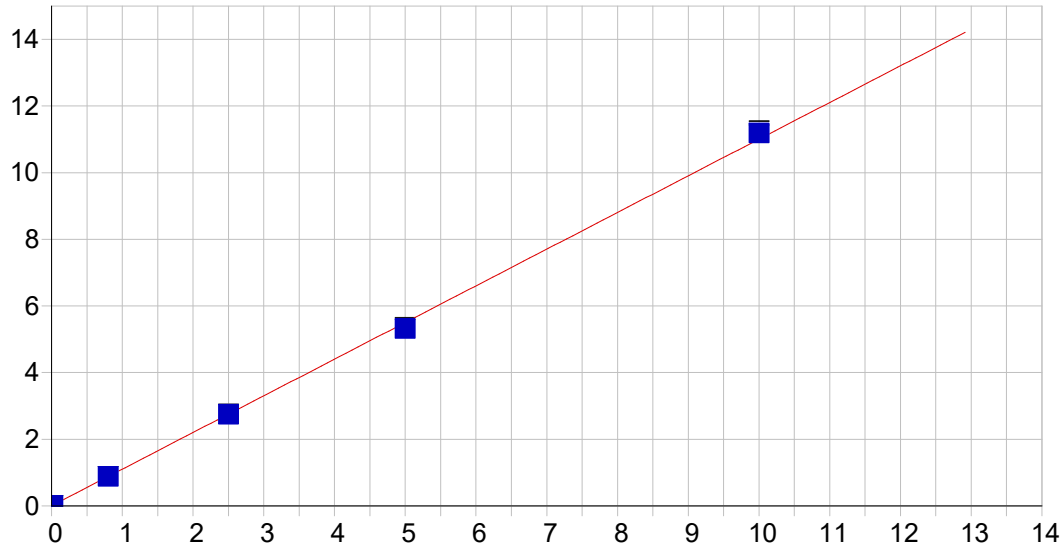
S 182.034 {485}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000186	Re-Slope:	1.000000
A1 (Gain):	0.026783	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.884384	Status:	OK.
Std Error of Est:	0.000330		
Predicted MDL:	0.003028		
Predicted MQL:	0.010093		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00031	-.000	.000	.00018	.000	1
S1	.02000	.33745	.317	1590.	.00920	.000	1
S3	2.5000	2.4105	-.089	-3.58	.06457	.001	1
S4	5.0000	4.6924	-.308	-6.15	.12552	.002	1
S5	10.000	10.168	.168	1.68	.27183	.001	1
S2	.80000	.72401	-.076	-9.50	.01952	.000	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



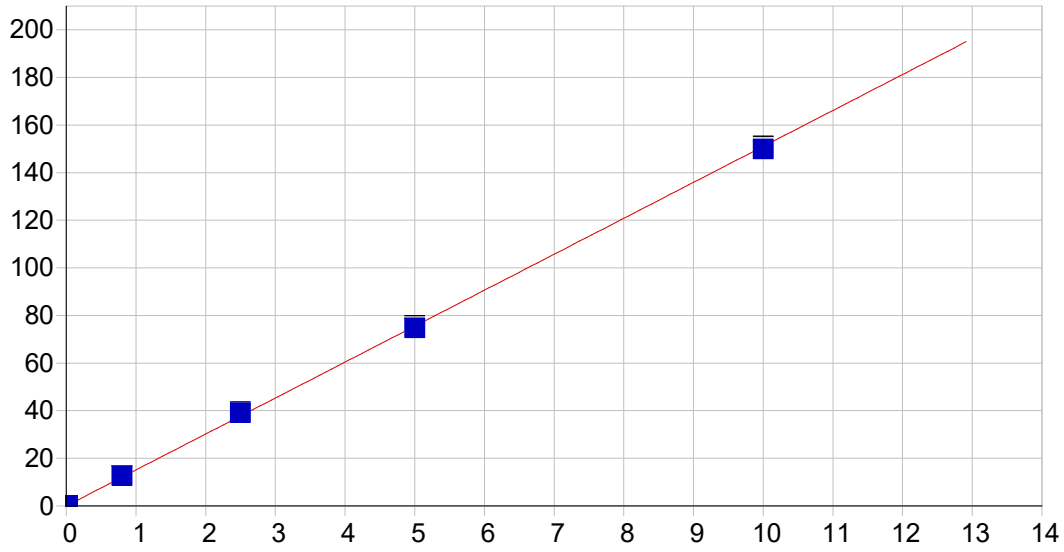
Li 670.784 { 50}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002711	Re-Slope:	1.000000
A1 (Gain):	1.100302	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999773	Status:	OK.
Std Error of Est:	0.000550		
Predicted MDL:	0.000664		
Predicted MQL:	0.002214		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00271	.001	1
S5	10.000	10.168	.168	1.68	11.201	.058	1
S4	5.0000	4.8352	-.165	-3.30	5.3278	.030	1
S3	2.5000	2.4979	-.002	-.084	2.7536	.005	1
S1	.02000	.01868	-.001	-6.62	.02366	.000	1
S2	.80000	.80017	.000	.021	.88393	.004	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



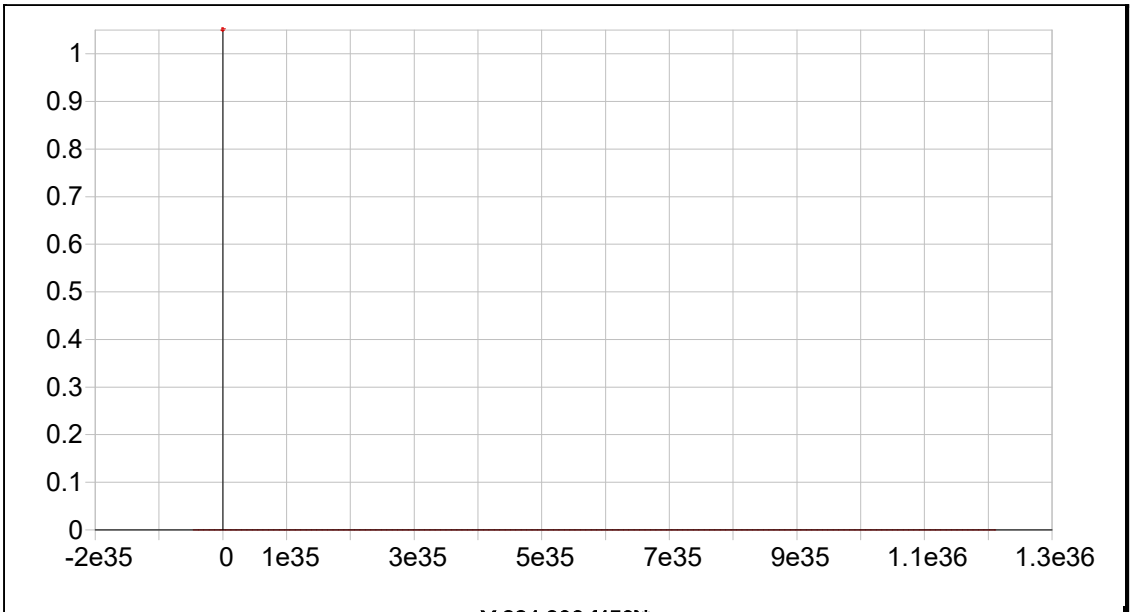
Sr 407.771 { 83}

Date of Fit:	11/14/2024 15:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000621	Re-Slope:	1.000000
A1 (Gain):	15.102726	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999846	Status:	OK.
Std Error of Est:	0.006221		
Predicted MDL:	0.000030		
Predicted MQL:	0.000099		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00061	.000	1
S1	.02000	.01964	-.000	-1.82	.29868	.001	1
S3	2.5000	2.5891	.089	3.56	39.140	.356	1
S4	5.0000	4.9496	-.050	-1.01	74.828	.952	1
S5	10.000	9.9277	-.072	-.723	150.09	1.10	1
S2	.80000	.83406	.034	4.26	12.609	.147	1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

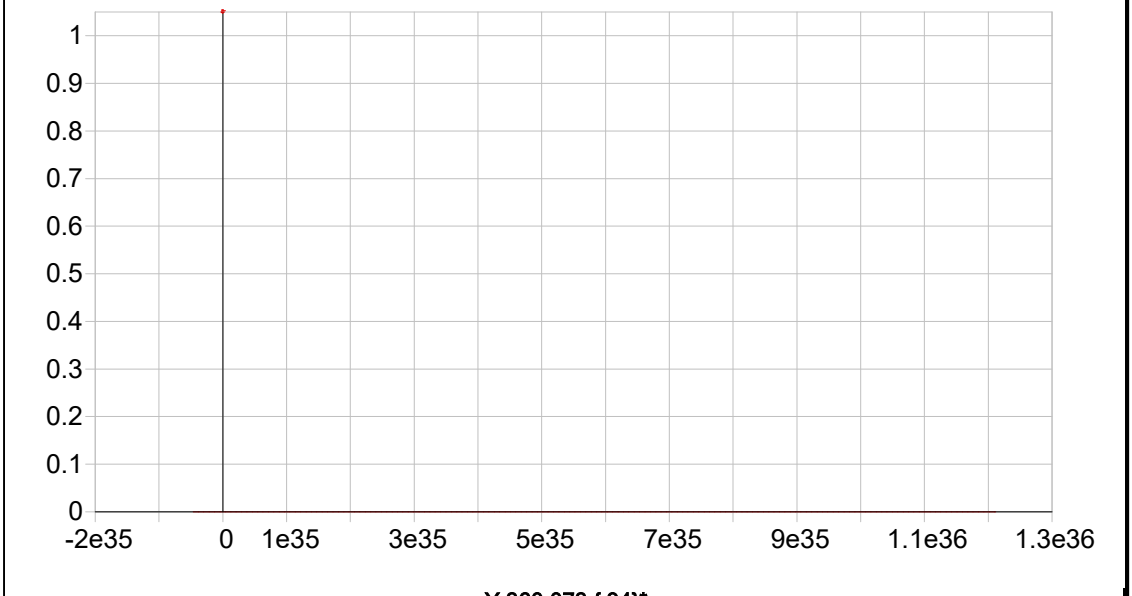


Y 224.306 {450}*

Date of Fit:	11/14/2024 15:14:31	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}*

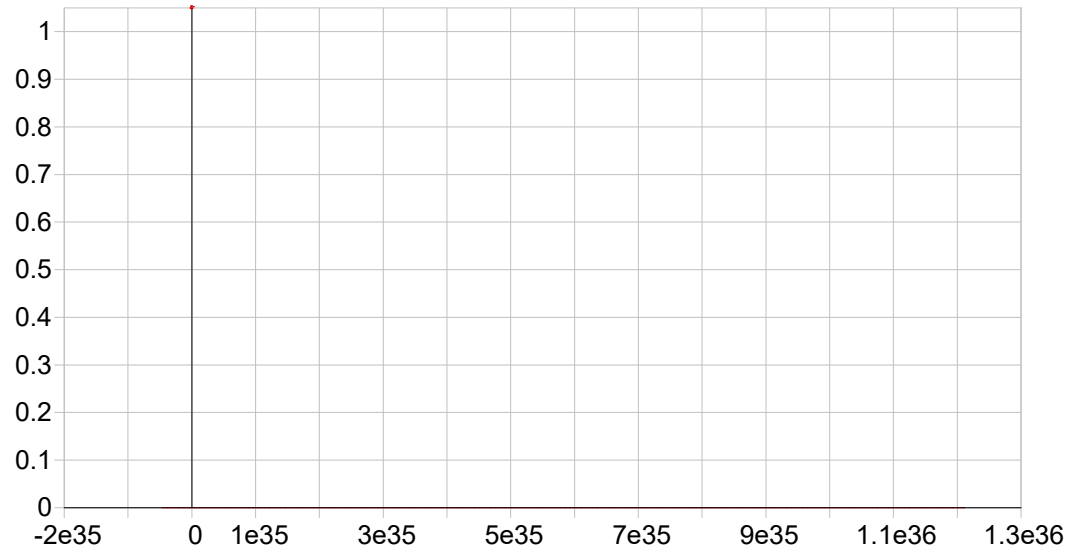
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

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



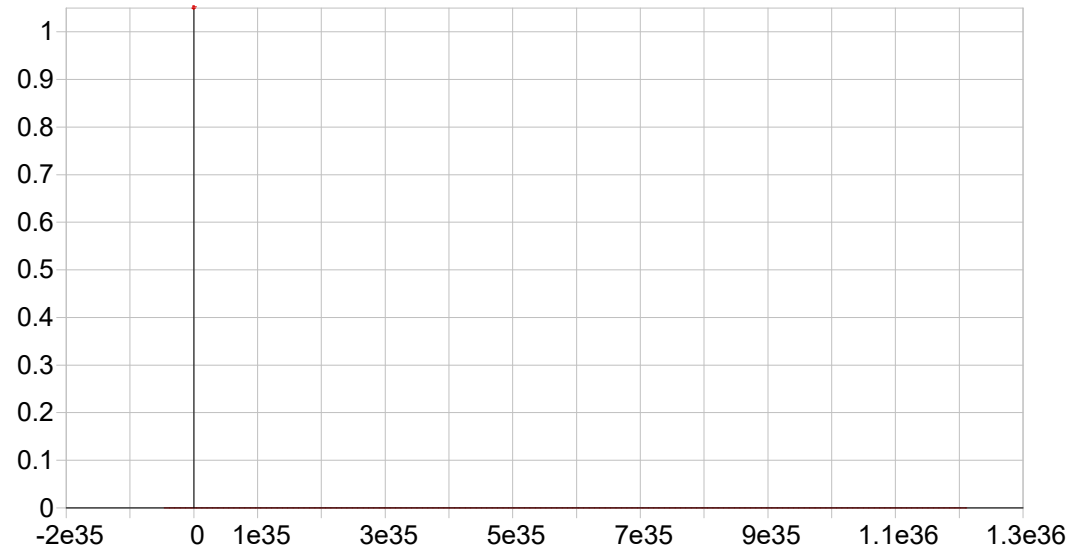
Y 371.030 { 91}*

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

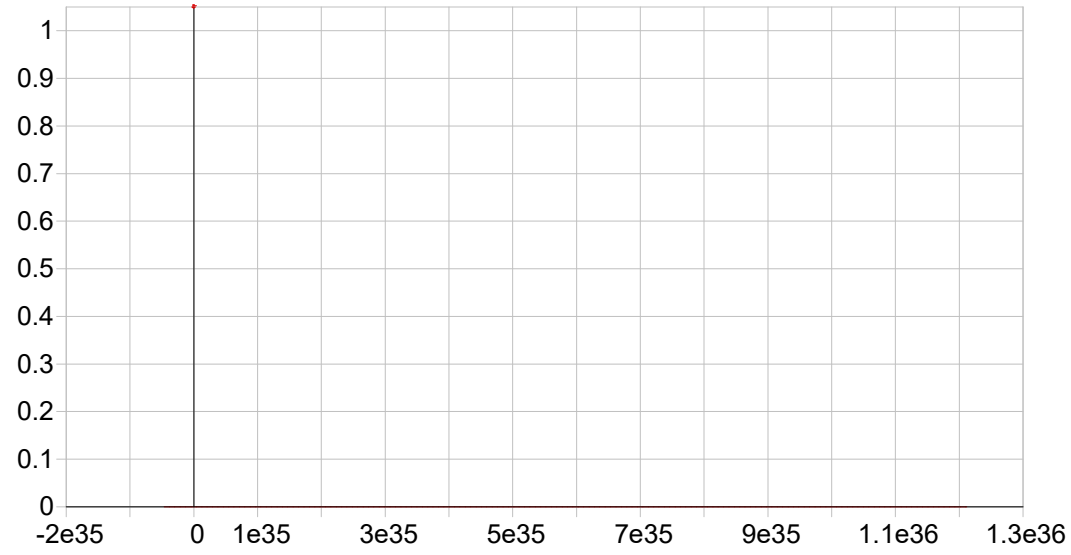
Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457



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:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

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:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S0 Acquired: 11/14/2024 13:33:21 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	-.00019	-.00006	-.00025	.00050	.00018	.00033	-.01720	-.00064
Stddev	.00001	.00008	.00011	.00002	.00031	.00032	.00089	.00017
%RSD	5.2920	129.65	43.346	4.4510	174.25	95.963	5.1670	25.802
#1	-.00020	-.00015	-.00014	.00047	.00044	.00050	-.01720	-.00048
#2	-.00019	.00002	-.00036	.00051	-.00016	.00053	-.01631	-.00081
#3	-.00018	-.00006	-.00025	.00051	.00026	-.00004	-.01809	-.00064

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00003	.00164	.00002	-.00007	-.00027	-.00000	-.00001	-.00018
Stddev	.00007	.00008	.00001	.00005	.00042	.00001	.00011	.00003
%RSD	203.97	5.1928	50.682	77.584	156.76	3027.2	1225.1	15.485
#1	.00003	.00173	.00003	-.00013	-.00076	.00001	-.00004	-.00015
#2	-.00003	.00163	.00003	-.00003	-.00005	-.00001	-.00009	-.00019
#3	-.00010	.00156	.00001	-.00005	-.00000	.00001	.00011	-.00020

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00024	-.00106	.01172	-.00003	.00642	.00036	.00141	.00005
Stddev	.00015	.00001	.00018	.00006	.00026	.00011	.00019	.00009
%RSD	63.262	1.1936	1.5743	191.27	4.0548	30.657	13.676	191.18
#1	-.00028	-.00105	.01151	-.00006	.00671	.00024	.00120	.00014
#2	-.00007	-.00108	.01176	.00004	.00622	.00039	.00159	.00003
#3	-.00036	-.00106	.01188	-.00006	.00633	.00045	.00143	-.00003

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00059	.00195	.00016	-.00118	.00018	.00271	.00061
Stddev	.00002	.00009	.00001	.00004	.00003	.00053	.00044
%RSD	2.8673	4.4766	5.2347	3.6838	16.963	19.538	71.527
#1	.00058	.00186	.00017	-.00116	.00017	.00215	.00076
#2	.00059	.00197	.00016	-.00116	.00021	.00280	.00095
#3	.00061	.00203	.00015	-.00123	.00015	.00319	.00012

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S0 Acquired: 11/14/2024 13:33:21 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2707.0	62997.	12934.	1993.2	4647.9
Stddev	45.4	256.	238.	6.2	66.9
%RSD	1.6765	.40633	1.8389	.31007	1.4399
#1	2748.8	62702.	13208.	1988.4	4705.7
#2	2713.6	63123.	12776.	1991.0	4663.4
#3	2658.7	63165.	12818.	2000.2	4574.6

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S1 Acquired: 11/14/2024 13:37:47 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.00092	.00265	.00221	.00240	.01014	.00879	.32532	.02152
Stddev	.00010	.00004	.00022	.00004	.00017	.00007	.00142	.00005
%RSD	11.062	1.6782	9.7566	1.6880	1.6339	.79129	.43715	.22675
#1	.00096	.00261	.00196	.00237	.01004	.00880	.32414	.02155
#2	.00080	.00270	.00234	.00244	.01004	.00872	.32493	.02146
#3	.00100	.00265	.00233	.00238	.01033	.00886	.32690	.02154

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01529	.08855	.00205	.02594	.01755	.00057	.01371	.02579
Stddev	.00008	.00045	.00004	.00027	.00036	.00003	.00008	.00014
%RSD	.54685	.50444	1.7891	1.0581	2.0287	4.8139	.57345	.55040
#1	.01528	.08817	.00208	.02565	.01718	.00059	.01367	.02571
#2	.01520	.08845	.00207	.02598	.01758	.00057	.01366	.02571
#3	.01537	.08904	.00201	.02620	.01789	.00054	.01380	.02595

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02402	.00235	.04526	.00507	.15523	.01373	.04544	.16918
Stddev	.00033	.00005	.00023	.00011	.00206	.00006	.00014	.00141
%RSD	1.3905	1.9857	.50216	2.0971	1.3293	.45951	.30328	.83525
#1	.02364	.00231	.04511	.00517	.15290	.01367	.04532	.16755
#2	.02417	.00240	.04514	.00508	.15595	.01374	.04541	.17012
#3	.02426	.00234	.04552	.00496	.15684	.01379	.04559	.16987

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00514	.10794	.00250	-.00062	.00920	.02366	.29868
Stddev	.00002	.00098	.00002	.00003	.00009	.00026	.00143
%RSD	.45843	.90581	.90494	5.0622	1.0188	1.0991	.47986
#1	.00514	.10690	.00248	-.00065	.00909	.02336	.29712
#2	.00516	.10806	.00252	-.00061	.00926	.02387	.29901
#3	.00512	.10884	.00251	-.00059	.00925	.02374	.29993

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S1 Acquired: 11/14/2024 13:37:47 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2662.3	61695.	13192.	1896.8	4517.7
Stddev	20.6	55.	25.	4.6	34.1
%RSD	.77259	.08953	.18752	.24379	.75514
#1	2686.0	61651.	13218.	1902.0	4557.1
#2	2651.3	61676.	13169.	1893.1	4498.0
#3	2649.6	61757.	13187.	1895.4	4498.1

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S2 Acquired: 11/14/2024 13:42:09 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.04668	.06187	.19549	.08154	.17116	.13231	5.6979	.15961
Stddev	.00055	.00113	.00330	.00096	.00248	.00054	.0273	.00050
%RSD	1.1738	1.8223	1.6901	1.1774	1.4510	.40965	.47849	.31509
#1	.04731	.06269	.19929	.08264	.17402	.13266	5.6825	.15986
#2	.04635	.06058	.19329	.08107	.16994	.13259	5.7294	.15993
#3	.04637	.06233	.19390	.08090	.16953	.13169	5.6819	.15903

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.91418	.18526	.03593	.36537	.17506	.00501	.28176	.05392
Stddev	.01518	.00127	.00075	.00634	.00292	.00009	.00230	.00030
%RSD	1.6610	.68320	2.0926	1.7347	1.6663	1.7755	.81774	.54885
#1	.93171	.18454	.03564	.37269	.17841	.00493	.28085	.05370
#2	.90506	.18672	.03536	.36185	.17362	.00499	.28438	.05426
#3	.90577	.18453	.03678	.36158	.17314	.00510	.28004	.05380

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.25952	.07369	.08422	.05526	1.5374	.02891	.36303	.71418
Stddev	.00420	.00136	.00116	.00033	.0280	.00062	.00141	.01098
%RSD	1.6190	1.8517	1.3716	.59312	1.8233	2.1324	.38976	1.5369
#1	.26436	.07304	.08363	.05525	1.5214	.02850	.36311	.72681
#2	.25728	.07276	.08348	.05559	1.5211	.02862	.36440	.70871
#3	.25691	.07525	.08555	.05493	1.5698	.02962	.36157	.70701

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.10181	.45109	.00603	.02292	.01952	.88393	12.609
Stddev	.00173	.00239	.00011	.00041	.00022	.00384	.147
%RSD	1.7016	.53052	1.7572	1.7880	1.1427	.43407	1.1694
#1	.10380	.45035	.00595	.02339	.01978	.88306	12.584
#2	.10092	.45377	.00600	.02273	.01944	.88813	12.768
#3	.10070	.44916	.00615	.02264	.01935	.88061	12.476

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S2 Acquired: 11/14/2024 13:42:09 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2579.5	59018.	12948.	1786.3	4305.0
Stddev	35.8	802.	68.	30.1	62.1
%RSD	1.3862	1.3593	.52770	1.6828	1.4428
#1	2539.2	59399.	12923.	1809.3	4233.7
#2	2591.8	59559.	12896.	1797.2	4334.6
#3	2607.5	58097.	13025.	1752.3	4346.9

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S3 Acquired: 11/14/2024 13:46:22 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.15015	.19162	.62516	.25903	.54335	.41466	17.847	.50381
Stddev	.00180	.00801	.00645	.00361	.00667	.00079	.111	.00239
%RSD	1.1986	4.1802	1.0317	1.3940	1.2278	.19069	.62450	.47392
#1	.15100	.19873	.62726	.26105	.54573	.41544	17.973	.50296
#2	.15138	.19319	.63029	.26119	.54850	.41469	17.761	.50196
#3	.14809	.18294	.61792	.25487	.53582	.41386	17.807	.50650

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.9515	.57480	.11269	1.1739	.54754	.01574	.87679	.16959
Stddev	.0358	.00005	.00108	.0137	.00518	.00011	.00269	.00032
%RSD	1.2138	.00908	.96119	1.1668	.94541	.67806	.30654	.18861
#1	2.9612	.57482	.11166	1.1778	.54942	.01561	.87413	.16992
#2	2.9815	.57474	.11258	1.1852	.55152	.01580	.87674	.16957
#3	2.9119	.57484	.11382	1.1587	.54169	.01579	.87951	.16928

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.83085	.23200	.24915	.17363	4.7683	.09175	1.1332	2.2263
Stddev	.01016	.00238	.00263	.00020	.0498	.00101	.0055	.0296
%RSD	1.2233	1.0276	1.0538	.11774	1.0440	1.0961	.48504	1.3311
#1	.83244	.22968	.24621	.17381	4.7139	.09070	1.1302	2.2382
#2	.84013	.23188	.24995	.17341	4.7795	.09186	1.1300	2.2481
#3	.81999	.23445	.25127	.17368	4.8115	.09270	1.1396	2.1925

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.32356	1.4068	.01891	.07822	.06457	2.7536	39.140
Stddev	.00445	.0018	.00017	.00157	.00089	.0050	.356
%RSD	1.3738	.12629	.90020	2.0011	1.3729	.17998	.91071
#1	.32542	1.4048	.01873	.07927	.06511	2.7515	38.751
#2	.32677	1.4075	.01893	.07896	.06506	2.7501	39.450
#3	.31849	1.4082	.01906	.07642	.06355	2.7593	39.221

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S3 Acquired: 11/14/2024 13:46:22 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2486.8	56996.	12724.	1749.4	4016.1
Stddev	18.9	460.	7.	16.8	34.2
%RSD	.75868	.80710	.05421	.95802	.85095
#1	2476.4	57509.	12720.	1768.6	3998.5
#2	2475.5	56858.	12732.	1737.3	3994.4
#3	2508.6	56620.	12719.	1742.5	4055.5

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S4 Acquired: 11/14/2024 13:50:36 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.28337	.35718	1.1791	.48272	1.0233	.79023	34.448	.96693
Stddev	.00488	.00457	.0186	.00714	.0143	.00482	.456	.01008
%RSD	1.7230	1.2795	1.5752	1.4791	1.3998	.60943	1.3224	1.0423
#1	.28811	.36178	1.2001	.49010	1.0374	.79550	34.946	.97827
#2	.27836	.35264	1.1648	.47585	1.0087	.78915	34.346	.96350
#3	.28363	.35712	1.1724	.48221	1.0239	.78605	34.052	.95900

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.6361	1.0971	.21312	2.2336	1.0174	.03031	1.6835	.32612
Stddev	.0873	.0091	.00412	.0343	.0160	.00063	.0138	.00258
%RSD	1.5485	.82866	1.9310	1.5377	1.5683	2.0877	.82274	.79235
#1	5.7351	1.1074	.20858	2.2722	1.0330	.02961	1.6994	.32851
#2	5.5702	1.0937	.21416	2.2065	1.0011	.03047	1.6749	.32647
#3	5.6030	1.0902	.21661	2.2220	1.0180	.03085	1.6761	.32338

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.5748	.44479	.48325	.33299	9.0118	.17631	2.1865	4.1471
Stddev	.0242	.00799	.01158	.00284	.1670	.00420	.0249	.0610
%RSD	1.5337	1.7968	2.3966	.85152	1.8534	2.3827	1.1373	1.4706
#1	1.6017	.43612	.47176	.33625	8.8459	.17195	2.2144	4.2114
#2	1.5550	.44638	.48307	.33163	9.0094	.17665	2.1787	4.0901
#3	1.5678	.45186	.49492	.33108	9.1800	.18034	2.1665	4.1397

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.61314	2.6973	.03632	.15236	.12552	5.3278	74.828
Stddev	.00990	.0223	.00093	.00203	.00197	.0301	.952
%RSD	1.6144	.82694	2.5591	1.3294	1.5706	.56549	1.2716
#1	.62436	2.7230	.03532	.15450	.12770	5.3616	75.926
#2	.60564	2.6843	.03648	.15048	.12388	5.3036	74.307
#3	.60941	2.6845	.03715	.15209	.12497	5.3183	74.251

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S4 Acquired: 11/14/2024 13:50:36 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2532.4	57285.	12736.	1775.5	3988.7
Stddev	35.5	1112.	131.	40.2	54.3
%RSD	1.4035	1.9404	1.0303	2.2638	1.3608
#1	2497.8	58486.	12588.	1813.0	3931.6
#2	2568.8	57074.	12782.	1780.4	4039.6
#3	2530.5	56293.	12838.	1733.0	3994.9

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S5 Acquired: 11/14/2024 13:54:47 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.59504	.73890	2.4475	1.0117	2.1481	1.6536	70.545	1.9623
Stddev	.00125	.00464	.0054	.0026	.0055	.0059	.511	.0016
%RSD	.21011	.62862	.22224	.25251	.25796	.35782	.72458	.08133
#1	.59398	.74301	2.4434	1.0089	2.1421	1.6479	70.013	1.9637
#2	.59474	.73981	2.4454	1.0122	2.1494	1.6597	70.590	1.9606
#3	.59642	.73386	2.4536	1.0140	2.1530	1.6533	71.033	1.9628

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.764	2.2560	.43021	4.6847	2.0868	.06248	3.4643	.67826
Stddev	.028	.0091	.00078	.0088	.0071	.00024	.0119	.00494
%RSD	.23785	.40370	.18182	.18869	.33885	.38818	.34260	.72814
#1	11.745	2.2456	.43101	4.6779	2.0787	.06225	3.4529	.67300
#2	11.750	2.2628	.43015	4.6816	2.0903	.06274	3.4766	.67897
#3	11.796	2.2596	.42945	4.6947	2.0914	.06245	3.4636	.68280

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.2804	.91434	1.0114	.68725	17.978	.37051	4.4470	8.5566
Stddev	.0062	.00171	.0097	.00216	.028	.00194	.0071	.0253
%RSD	.18831	.18701	.95551	.31381	.15763	.52383	.15897	.29523
#1	3.2766	.91427	1.0194	.68547	17.995	.37125	4.4392	8.5275
#2	3.2770	.91608	1.0142	.68965	17.993	.37196	4.4489	8.5691
#3	3.2875	.91266	1.0007	.68663	17.945	.36830	4.4530	8.5732

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2711	5.5944	.07734	.32859	.27183	11.201	150.09
Stddev	.0029	.0156	.00057	.00077	.00065	.058	1.10
%RSD	.22854	.27807	.73673	.23362	.23841	.52086	.73387
#1	1.2683	5.5889	.07670	.32793	.27164	11.238	148.82
#2	1.2709	5.6119	.07780	.32841	.27130	11.230	150.84
#3	1.2741	5.5823	.07752	.32943	.27255	11.133	150.60

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: S5 Acquired: 11/14/2024 13:54:47 Type: Cal
Method: NON EPA-6010-200.7(v2471) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2419.4	56267.	12575.	1718.5	3738.2
Stddev	6.0	111.	5.	3.3	3.5
%RSD	.24821	.19759	.03702	.19408	.09350
#1	2426.0	56231.	12572.	1714.8	3741.4
#2	2414.2	56178.	12581.	1719.3	3734.4
#3	2417.9	56391.	12573.	1721.4	3738.8

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: ICV01 Acquired: 11/14/2024 13:58:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.040753	1.056542	1.021279	1.035677	1.003037	2.578757
Stddev	.003341	.011317	.004339	.007445	.004341	.022292
%RSD	.3210003	1.071094	.4248373	.7188520	.4327892	.8644654
#1	1.038162	1.062182	1.022043	1.030396	.998376	2.589229
#2	1.039573	1.043514	1.016608	1.032443	1.003770	2.553157
#3	1.044524	1.063931	1.025184	1.044193	1.006965	2.593886

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5203187	.5208698	.5077460	10.29179	.5328956	.5164801
Stddev	.0047835	.0032310	.0020546	.11150	.0011793	.0018999
%RSD	.9193318	.6203136	.4046572	1.083377	.2213088	.3678454
#1	.5225888	.5229906	.5085365	10.33403	.5338353	.5162319
#2	.5148229	.5171511	.5054135	10.16534	.5332792	.5147166
#3	.5235444	.5224676	.5092879	10.37599	.5315722	.5184919

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5324894	9.959860	.5256059	6.018133	.5196169	.2553345
Stddev	.0020331	.058271	.0059425	.043538	.0018644	.0003682
%RSD	.3818042	.5850548	1.130605	.7234460	.3587989	.1442070
#1	.5310917	9.974302	.5293409	6.042343	.5194457	.2554735
#2	.5315548	9.895726	.5187534	5.967871	.5178441	.2549170
#3	.5348217	10.00955	.5287235	6.044185	.5215610	.2556129

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.487388	.5073655	1.049797	9.812676	2.416927	2.526883
Stddev	.034132	.0045109	.000855	.038381	.017200	.011324
%RSD	.3597610	.8890742	.0814143	.3911398	.7116383	.4481581
#1	9.488577	.5107413	1.049636	9.783186	2.423772	2.519413
#2	9.452676	.5022423	1.050720	9.798770	2.397359	2.521323
#3	9.520909	.5091128	1.049034	9.856072	2.429651	2.539912

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: ICV01 Acquired: 11/14/2024 13:58:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.415467	2.431971	F 1.881348	F .0041965	F -.004017	F -.001817
Stddev	.013046	.023281	.002315	.0013372	.002689	.000384
%RSD	.5400971	.9572787	.1230512	31.86387	66.93658	21.14002
#1	2.413673	2.444414	1.883637	.0052207	-.002257	-.001894
#2	2.403410	2.405113	1.881399	.0046849	-.007111	-.002157
#3	2.429317	2.446386	1.879008	.0026837	-.002682	-.001400

Elem	Sr4077
Units	ppm
Avg	F -.008558
Stddev	.000071
%RSD	.8322054
#1	-.008596
#2	-.008476
#3	-.008603

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2574.213	59354.34	12970.87	1810.632	4248.251
Stddev	11.214	25.89	93.66	6.484	14.497
%RSD	.4356111	.0436124	.7221099	.3581172	.3412351
#1	2586.996	59358.77	12908.67	1803.873	4263.206
#2	2569.607	59377.72	13078.59	1811.222	4247.284
#3	2566.036	59326.52	12925.34	1816.802	4234.262

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: LLICV01 Acquired: 11/14/2024 14:10:38 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201145	.0377269	.0107730	.0173854	.0454815	.0948560
Stddev	.0014656	.0019619	.0008822	.0024129	.0008006	.0016782
%RSD	7.286363	5.200192	8.188749	13.87884	1.760271	1.769251
#1	.0217004	.0399911	.0098002	.0151085	.0451554	.0952735
#2	.0188100	.0365322	.0115212	.0199144	.0448954	.0962861
#3	.0198330	.0366574	.0109976	.0171333	.0463937	.0930084

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0946542	.0055629	.0064860	1.918161	.0092316	.0275633
Stddev	.0013745	.0000662	.0000312	.025837	.0000878	.0001483
%RSD	1.452171	1.189661	.4810182	1.346985	.9512340	.5379483
#1	.0952258	.0055550	.0065207	1.915801	.0092760	.0277330
#2	.0930860	.0055010	.0064602	1.893585	.0092884	.0274984
#3	.0956507	.0056327	.0064771	1.945098	.0091305	.0274586

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0205367	.0930039	.0195133	1.912809	.0364736	.0096842
Stddev	.0002341	.0029271	.0001034	.033487	.0002469	.0001248
%RSD	1.140013	3.147288	.5298218	1.750653	.6767789	1.289145
#1	.0205941	.0932317	.0195787	1.877008	.0362097	.0098260
#2	.0202791	.0899696	.0193941	1.918059	.0366987	.0095910
#3	.0207367	.0958105	.0195670	1.943361	.0365125	.0096355

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.602255	.0375651	.0402550	1.777920	.1024576	.1947218
Stddev	.010247	.0002901	.0005176	.023736	.0016488	.0004621
%RSD	.6395635	.7723680	1.285793	1.335063	1.609204	.2373359
#1	1.612276	.0376663	.0401323	1.801403	.1029277	.1951416
#2	1.591795	.0377911	.0408229	1.753938	.1006249	.1942266
#3	1.602694	.0372379	.0398098	1.778419	.1038203	.1947972

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: LLICV01 Acquired: 11/14/2024 14:10:38 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0361311	F .1851038	F .3098617	F .0142483	F .3344721	.0179935
Stddev	.0002330	.0029479	.0068303	.0003740	.0010230	.0006826
%RSD	.6449582	1.592548	2.204316	2.625182	.3058520	3.793619
#1	.0359024	.1860532	.3177219	.0140309	.3355302	.0180072
#2	.0363682	.1817982	.3064932	.0146802	.3343977	.0173041
#3	.0361227	.1874600	.3053699	.0140337	.3334883	.0186691

Elem	Sr4077
Units	ppm
Avg	.0191471
Stddev	.0003740
%RSD	1.953269
#1	.0192772
#2	.0187254
#3	.0194386

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2707.742	61074.93	13233.64	1877.215	4577.019
Stddev	5.949	140.02	162.12	8.664	2.607
%RSD	.2197073	.2292641	1.225026	.4615544	.0569662
#1	2701.698	60948.67	13195.12	1874.035	4575.068
#2	2713.591	61050.59	13411.54	1870.590	4579.980
#3	2707.938	61225.53	13094.25	1887.020	4576.008

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: ICB01 Acquired: 11/14/2024 14:36:19 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001045	-.000125	.0001239	.0000457	-.000025	-.002065	-.001005
Stddev	.001409	.000934	.0001406	.0008240	.000263	.004739	.000546
%RSD	134.8106	749.7920	113.4377	1802.802	1041.792	229.4400	54.32948
#1	.000560	-.001187	.0000336	.0009946	.000233	.003370	-.000430
#2	-.002079	.000569	.0002858	-.000368	-.000016	-.005328	-.001068
#3	-.001617	.000243	.0000522	-.000490	-.000293	-.004238	-.001516

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000176	-.000015	.0052025	.0000032	.0002464	-.000107	.0017024
Stddev	.0000211	.000022	.0053944	.0001662	.0000928	.000153	.0037904
%RSD	119.7876	149.6226	103.6887	5195.097	37.68437	142.3310	222.6512
#1	-.000002	-.000020	-.000347	-.000187	.0001872	.000025	.0048249
#2	.000040	.000009	.010427	.000078	.0001985	-.000072	-.002515
#3	.000014	-.000035	.005528	.000118	.0003534	-.000275	.002797

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000026	.0024052	.0004080	-.000214	-.089282	.0003888	.0006167
Stddev	.000127	.0081476	.0003184	.000050	.026200	.0008906	.0001098
%RSD	479.1162	338.7468	78.05357	23.39169	29.34497	229.0688	17.81040
#1	-.000052	.0055064	.0003043	-.000160	-.119266	-.000254	.0007061
#2	-.000138	-.006838	.0001543	-.000223	-.077774	.000015	.0004941
#3	.000111	.008547	.0007653	-.000258	-.070805	.001405	.0006498

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.027655	-.000843	-.000269	.0121105	-.000461	.0029723	-.000970
Stddev	.005223	.000352	.000245	.0002032	.000058	.0029895	.002942
%RSD	18.88568	41.76738	91.25198	1.678103	12.65468	100.5786	303.3293
#1	-.023205	-.001091	-.000046	.0123341	-.000424	.0022300	-.003497
#2	-.033405	-.000997	-.000230	.0119370	-.000431	.0004238	.002260
#3	-.026355	-.000440	-.000532	.0120606	-.000529	.0062629	-.001673

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: ICB01 Acquired: 11/14/2024 14:36:19 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002324	-.000292	-.000073
Stddev	.003462	.000212	.000025
%RSD	148.9611	72.43252	34.70147
#1	.001480	-.000116	-.000102
#2	-.003162	-.000527	-.000060
#3	-.005290	-.000233	-.000057

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2672.209	60898.50	12885.11	1877.453	4613.370
Stddev	15.880	45.50	114.88	9.896	30.332
%RSD	.5942498	.0747206	.8915910	.5271204	.6574879
#1	2659.707	60946.40	12753.02	1888.104	4589.735
#2	2666.843	60893.24	12940.61	1875.713	4602.802
#3	2690.076	60855.85	12961.71	1868.541	4647.573

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CRI01 Acquired: 11/14/2024 14:40:53 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206245	.0374553	.0117549	.0173651	.0471987	.0984942
Stddev	.0024448	.0005137	.0005066	.0016813	.0009744	.0021978
%RSD	11.85405	1.371433	4.309967	9.681871	2.064405	2.231411
#1	.0216523	.0374164	.0112428	.0191776	.0479792	.0978912
#2	.0178336	.0379873	.0117660	.0158565	.0475101	.0966608
#3	.0223876	.0369621	.0122559	.0170613	.0461066	.1009305

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0958683	.0056339	.0065051	1.928864	.0095530	.0275675
Stddev	.0005639	.0000446	.0000951	.007636	.0002495	.0001116
%RSD	.5881937	.7912222	1.462579	.3958861	2.611545	.4048349
#1	.0960186	.0056840	.0066068	1.927156	.0095220	.0276128
#2	.0963417	.0056192	.0064182	1.937210	.0093205	.0276493
#3	.0952444	.0055985	.0064902	1.922227	.0098166	.0274403

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213358	.0932253	.0195872	1.919863	.0366674	.0097193
Stddev	.0004331	.0018399	.0000583	.014776	.0004260	.0003447
%RSD	2.030105	1.973652	.2975070	.7696239	1.161866	3.546740
#1	.0211844	.0947727	.0195471	1.909582	.0369456	.0100487
#2	.0218243	.0911908	.0195605	1.936795	.0368797	.0093610
#3	.0209988	.0937122	.0196541	1.913211	.0361770	.0097480

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.666401	.0383717	.0415727	1.847336	.0974980	.1973645
Stddev	.011623	.0009524	.0002424	.042251	.0008323	.0000176
%RSD	.6974863	2.481992	.5829983	2.287114	.8536764	.0089343
#1	1.665585	.0389556	.0413375	1.798559	.0978812	.1973810
#2	1.655208	.0388868	.0418217	1.872608	.0980697	.1973459
#3	1.678411	.0372727	.0415589	1.870839	.0965431	.1973666

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CRI01 Acquired: 11/14/2024 14:40:53 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0362056	F .1876586	.3174354	.0173451	F .3337882	.0187079
Stddev	.0005041	.0004812	.0071349	.0004733	.0012126	.0004423
%RSD	1.392259	.2564048	2.247683	2.728750	.3632796	2.364017
#1	.0367683	.1880198	.3153331	.0178107	.3337959	.0182143
#2	.0360535	.1878436	.3253853	.0168644	.3325718	.0188415
#3	.0357952	.1871124	.3115879	.0173603	.3349970	.0190680

Elem	Sr4077
Units	ppm
Avg	.0195049
Stddev	.0000702
%RSD	.3601131
#1	.0195467
#2	.0194238
#3	.0195443

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2661.467	60398.21	13166.37	1841.850	4539.472
Stddev	6.823	97.54	77.54	2.729	.921
%RSD	.2563700	.1614872	.5889598	.1481851	.0202950
#1	2667.766	60285.64	13090.81	1840.598	4540.507
#2	2662.415	60451.58	13162.54	1844.981	4538.740
#3	2654.219	60457.42	13245.76	1839.972	4539.171

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: ICSA01 Acquired: 11/14/2024 14:54:13 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001097	.0126655	.0086081	-.016366	-.000359	257.1152
Stddev	.003018	.0005310	.0017332	.001796	.002927	2.8127
%RSD	275.0761	4.192415	20.13443	10.97137	814.8950	1.093964
#1	-.004540	.0123837	.0105990	-.015279	-.000952	258.7985
#2	.001093	.0123349	.0074359	-.018438	-.002945	258.6790
#3	.000156	.0132780	.0077894	-.015381	.002819	253.8680

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032428	.0012475	.0066403	243.7403	.0554790	.0020712
Stddev	.0002554	.0000640	.0000554	.2878	.0001306	.0001934
%RSD	7.875679	5.128257	.8350626	.1180766	.2353736	9.338682
#1	.0030953	.0011782	.0066712	243.4123	.0556264	.0018480
#2	.0035377	.0013042	.0066735	243.8581	.0553777	.0021762
#3	.0030954	.0012600	.0065763	243.9505	.0554329	.0021895

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004715	98.68613	.0056870	270.5605	.0029016	.0026330
Stddev	.000587	.42915	.0003339	.3934	.0004779	.0000811
%RSD	12.45104	.4348672	5.870494	.1453925	16.46997	3.080935
#1	-.004101	98.35073	.0053076	270.2212	.0023848	.0025691
#2	-.004775	98.53793	.0059358	270.9917	.0033276	.0027242
#3	-.005270	99.16975	.0058177	270.4686	.0029924	.0026056

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0346780	.0066146	.0064767	.0244323	.0174861	.0004918
Stddev	.0178082	.0003156	.0001125	.0238912	.0011493	.0005204
%RSD	51.35309	4.770440	1.737395	97.78505	6.572843	105.8060
#1	.0199204	.0068152	.0065056	-.002799	.0163914	.0007157
#2	.0296555	.0067778	.0065719	.041874	.0173835	-.000103
#3	.0544581	.0062509	.0063525	.034222	.0186832	.000863

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: ICSA01 Acquired: 11/14/2024 14:54:13 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096913	-.001867	.0195438	-.002752	-.013099	F -.040100
Stddev	.0008475	.000861	.0091262	.002465	.001315	.000318
%RSD	8.745371	46.11766	46.69628	89.57588	10.04195	.7931194
#1	.0101230	-.002738	.0153431	-.004875	-.013235	-.039752
#2	.0102360	-.001016	.0132744	-.003331	-.014342	-.040174
#3	.0087148	-.001849	.0300140	-.000049	-.011722	-.040375

Elem	Sr4077
Units	ppm
Avg	.0042843
Stddev	.0004906
%RSD	11.45012
#1	.0046823
#2	.0044345
#3	.0037362

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2324.127	52916.75	12403.45	1626.466	3514.624
Stddev	2.037	67.71	53.74	8.887	7.323
%RSD	.0876297	.1279602	.4332761	.5463946	.2083645
#1	2323.066	52854.78	12349.56	1618.158	3506.199
#2	2326.475	52989.02	12403.75	1635.836	3519.458
#3	2322.839	52906.43	12457.04	1625.404	3518.216

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: ICSAB01 Acquired: 11/14/2024 15:18:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1170240	.1027176	.0569447	.0358122	.6286208	271.1007
Stddev	.0050052	.0029909	.0022750	.0025914	.0032444	.2175
%RSD	4.277106	2.911732	3.995064	7.236070	.5161178	.0802151
#1	.1113582	.1054612	.0592544	.0386127	.6265860	270.8900
#2	.1208449	.1031624	.0568735	.0334992	.6269140	271.3244
#3	.1188691	.0995293	.0547061	.0353246	.6323623	271.0877

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5354655	.5212372	1.017153	253.8201	.5677462	.5155825
Stddev	.0019494	.0023101	.001970	.9848	.0012833	.0013073
%RSD	.3640500	.4431895	.1936757	.3880033	.2260322	.2535632
#1	.5333994	.5227655	1.015128	252.8717	.5676406	.5141024
#2	.5372721	.5223664	1.019062	253.7509	.5690790	.5165799
#3	.5357249	.5185797	1.017270	254.8377	.5665189	.5160650

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4930544	102.8050	.5150507	278.9375	1.015635	.2057121
Stddev	.0011298	.7554	.0016494	.9416	.002330	.0001404
%RSD	.2291492	.7347546	.3202359	.3375774	.2293743	.0682350
#1	.4932562	102.0623	.5133586	278.3474	1.012987	.2057219
#2	.4918372	102.7802	.5151399	278.4417	1.017370	.2058474
#3	.4940697	103.5725	.5166537	280.0235	1.016548	.2055671

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005354	.5106727	.8516559	-.000806	.9393985	.9987244
Stddev	.026343	.0018347	.0032525	.008188	.0010873	.0015254
%RSD	492.0620	.3592777	.3819074	1015.687	.1157418	.1527294
#1	-.034913	.5091786	.8544675	.008444	.9405041	.9971209
#2	.003209	.5101190	.8524065	-.007125	.9393608	.9988950
#3	.015643	.5127205	.8480937	-.003737	.9383305	1.000157

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: ICSAB01 Acquired: 11/14/2024 15:18:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9731632	.9792259	F .8129879	F .0051084	F -.015909	F -.042496
Stddev	.0038653	.0038539	.0062612	.0024108	.003254	.000234
%RSD	.3971908	.3935632	.7701439	47.19223	20.45560	.5502552
#1	.9701167	.9747790	.8077505	.0025089	-.013012	-.042537
#2	.9775113	.9813032	.8199228	.0072706	-.015286	-.042244
#3	.9718616	.9815955	.8112903	.0055456	-.019430	-.042707

Elem	Sr4077
Units	ppm
Avg	F .0066768
Stddev	.0008857
%RSD	13.26570
#1	.0074045
#2	.0069354
#3	.0056906

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2197.131	51162.92	11966.87	1541.226	3365.521
Stddev	3.095	149.26	14.68	6.188	1.164
%RSD	.1408767	.2917357	.1226654	.4014821	.0345722
#1	2196.334	51228.83	11952.04	1547.028	3366.856
#2	2200.546	51267.88	11981.40	1541.935	3364.716
#3	2194.512	50992.05	11967.17	1534.714	3364.992

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV01 Acquired: 11/14/2024 15:22:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.026618	4.989585	4.978920	5.084127	5.077121	10.22466	10.17585
Stddev	.009982	.063817	.016585	.014291	.005618	.11831	.06359
%RSD	.1985916	1.279007	.3331052	.2810936	.1106528	1.157118	.6248799
#1	5.034905	5.010621	4.998061	5.099198	5.083517	10.08982	10.15688
#2	5.029412	4.917906	4.968807	5.070770	5.074859	10.27308	10.24676
#3	5.015536	5.040229	4.969893	5.082413	5.072987	10.31107	10.12390

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2509113	2.490508	25.21484	1.020298	2.491288	1.272494	5.033426
Stddev	.0025947	.009133	.32638	.007366	.006221	.002208	.028554
%RSD	1.034113	.3667016	1.294385	.7219952	.2497157	.1735072	.5672898
#1	.2481106	2.501053	24.83907	1.028529	2.498465	1.274311	5.044355
#2	.2532334	2.485271	25.37783	1.018041	2.487430	1.273135	5.001021
#3	.2513900	2.485199	25.42762	1.014324	2.487969	1.270037	5.054900

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.489178	25.39112	2.496053	1.259215	25.57365	2.534214	2.564590
Stddev	.030571	.30023	.009293	.009810	.33595	.033308	.028429
%RSD	1.228174	1.182434	.3722969	.7790366	1.313673	1.314325	1.108518
#1	2.454184	25.04552	2.506769	1.270530	25.91892	2.495780	2.597016
#2	2.502651	25.54030	2.491172	1.254007	25.24787	2.552183	2.543949
#3	2.510698	25.58755	2.490218	1.253106	25.55416	2.554677	2.552804

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.37391	4.980484	5.110834	5.000703	5.003663	5.069026	4.982695
Stddev	.22620	.047895	.013636	.016387	.054223	.035472	.012209
%RSD	.8914685	.9616631	.2668094	.3276875	1.083659	.6997796	.2450232
#1	25.59339	4.929378	5.126546	5.019207	4.943111	5.067666	4.981401
#2	25.14154	5.024343	5.103870	4.988027	5.020148	5.034254	4.971185
#3	25.38679	4.987732	5.102086	4.994874	5.047730	5.105159	4.995500

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV01 Acquired: 11/14/2024 15:22:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.808654	5.038645	5.166788
Stddev	.027557	.039489	.031134
%RSD	.5730700	.7837301	.6025774
#1	4.826771	4.993885	5.137470
#2	4.776941	5.053486	5.199465
#3	4.822251	5.068564	5.163428

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2424.617	55719.73	12547.39	1669.668	3876.298
Stddev	3.773	436.25	117.31	15.967	2.288
%RSD	.1556157	.7829425	.9349340	.9563113	.0590291
#1	2424.810	55216.17	12677.31	1651.548	3875.641
#2	2420.751	55983.41	12449.24	1681.677	3874.411
#3	2428.290	55959.60	12515.62	1675.780	3878.843

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB01 Acquired: 11/14/2024 15:27:09 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000006	-.000621	-.000421	-.000003	-.000551	-.000342	-.002180
Stddev	.000543	.000407	.000361	.001810	.000240	.003745	.000249
%RSD	8892.488	65.51199	85.86217	61373.53	43.48511	1093.905	11.40348
#1	-.000142	-.000202	-.000436	.002083	-.000503	-.003229	-.002229
#2	-.000469	-.000646	-.000052	-.000935	-.000811	-.001687	-.002400
#3	.000592	-.001015	-.000775	-.001157	-.000339	.003889	-.001910

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000557	.0000055	.0047688	-.000043	.0001281	-.000097	.0022858
Stddev	.0000199	.0000301	.0067924	.000067	.0001032	.000173	.0006458
%RSD	35.72880	549.7210	142.4336	156.8718	80.61557	178.8817	28.25241
#1	.0000753	.0000388	-.002819	-.000120	.0001790	-.000099	.0017231
#2	.0000355	-.000003	.010281	-.000003	.0000092	.000077	.0021433
#3	.0000564	-.000020	.006845	-.000005	.0001959	-.000268	.0029909

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002787	-.004233	.0002502	.0000318	-.127026	-.000309	.0007563
Stddev	.0001765	.007504	.0000422	.0000422	.008651	.000878	.0001107
%RSD	63.32930	177.2684	16.85614	132.5034	6.810247	284.4496	14.64240
#1	.0002229	-.007818	.0002680	.0000625	-.136782	-.000871	.0007860
#2	.0004764	.004391	.0002021	.0000493	-.120291	.000703	.0006337
#3	.0001369	-.009272	.0002806	-.000016	-.124005	-.000758	.0008491

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.049145	.0054074	-.000050	.0114820	.0000533	.0043042	-.001695
Stddev	.018528	.0005208	.000047	.0005131	.0001379	.0022689	.001279
%RSD	37.70141	9.630911	94.03243	4.468900	259.0556	52.71220	75.45908
#1	-.058533	.0058638	.000004	.0119548	-.000099	.0034899	-.000636
#2	-.027801	.0048401	-.000069	.0109363	.000169	.0025549	-.001333
#3	-.061099	.0055182	-.000084	.0115549	.000090	.0068679	-.003116

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB01 Acquired: 11/14/2024 15:27:09 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000238	-.000555	-.000005
Stddev	.000215	.000207	.000018
%RSD	90.52117	37.26005	394.6189
#1	-.000347	-.000523	.000012
#2	-.000376	-.000776	-.000024
#3	.000010	-.000366	-.000002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2639.254	61497.16	13167.10	1842.160	4606.991
Stddev	7.049	111.38	37.88	5.337	10.152
%RSD	.2670955	.1811192	.2876857	.2896901	.2203525
#1	2641.325	61372.06	13126.59	1836.592	4613.613
#2	2631.402	61533.87	13173.07	1842.657	4595.304
#3	2645.036	61585.56	13201.65	1847.231	4612.057

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4756-01 Acquired: 11/14/2024 15:31:30 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1364469	-.020856	.8834550	-.056199	-.000673	163.0947
Stddev	.0006509	.003239	.0044226	.002065	.000378	.3097
%RSD	.4770744	15.53276	.5005985	3.674658	56.19960	.1898658
#1	.1367577	-.024302	.8807557	-.055353	-.000237	163.0681
#2	.1356988	-.020392	.8810503	-.058552	-.000876	163.4168
#3	.1368841	-.017873	.8885589	-.054691	-.000907	162.7991

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.357447	.0185451	.0459836	36.81756	.3336993	.2033489
Stddev	.004865	.0001385	.0002271	.17576	.0019766	.0014225
%RSD	.3584085	.7468976	.4939560	.4773908	.5923428	.6995235
#1	1.356818	.0183999	.0458771	36.73053	.3324331	.2019464
#2	1.352927	.0185596	.0458293	36.70230	.3359770	.2033099
#3	1.362597	.0186758	.0462444	37.01986	.3326878	.2047905

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.147226	299.4555	9.823776	92.12635	.4261277	.0098690
Stddev	.002609	3.5512	.049359	.18866	.0017834	.0003737
%RSD	.2274447	1.185879	.5024441	.2047809	.4185005	3.786320
#1	1.145109	295.5278	9.786950	91.96071	.4241372	.0095470
#2	1.146427	300.3993	9.804517	92.08663	.4266660	.0097814
#3	1.150141	302.4395	9.879861	92.33170	.4275799	.0102787

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.888719	.5081611	1.811452	32.89883	.1105455	.0056544
Stddev	.021470	.0018844	.008618	.11480	.0052404	.0003253
%RSD	.3645882	.3708265	.4757312	.3489342	4.740442	5.753146
#1	5.868122	.5061212	1.809805	32.79873	.1048381	.0052827
#2	5.910966	.5085253	1.820775	33.02414	.1116584	.0058873
#3	5.887068	.5098369	1.803777	32.87363	.1151400	.0057932

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4756-01 Acquired: 11/14/2024 15:31:30 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0633043	7.789453	F 12.03819	F 12.10596	.9442667	.3298512
Stddev	.0019915	.028489	.05243	.10441	.0089397	.0008083
%RSD	3.145874	.3657363	.4354998	.8624865	.9467371	.2450363
#1	.0619233	7.772314	11.98257	12.00438	.9339911	.3295872
#2	.0655871	7.773707	12.08669	12.10051	.9485518	.3292080
#3	.0624025	7.822340	12.04531	12.21299	.9502572	.3307584

Elem	Sr4077
Units	ppm
Avg	-.133044
Stddev	.003255
%RSD	2.446505
#1	-.129341
#2	-.134342
#3	-.135450

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3483.168	80988.71	18645.27	2454.878	3783.182
Stddev	3.166	321.89	37.29	9.372	10.891
%RSD	.0909048	.3974547	.2000076	.3817556	.2878771
#1	3483.551	81114.30	18604.53	2458.481	3789.675
#2	3486.126	80622.96	18653.56	2444.240	3789.261
#3	3479.828	81228.88	18677.72	2461.913	3770.608

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV02 Acquired: 11/14/2024 15:35:51 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.659560	4.725473	4.682548	4.664714	4.685748	9.351198	9.375353
Stddev	.009208	.088994	.005782	.012818	.016413	.012114	.039238
%RSD	.1976095	1.883291	.1234854	.2747781	.3502683	.1295402	.4185281
#1	4.658245	4.826952	4.676935	4.659274	4.686808	9.339048	9.403619
#2	4.651080	4.688753	4.682221	4.655514	4.668831	9.351273	9.391887
#3	4.669354	4.660714	4.688486	4.679355	4.701605	9.363274	9.330554

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2381978	2.336950	23.46706	.9520456	2.335813	1.183973	4.674543
Stddev	.0008760	.005211	.03411	.0101803	.003936	.004478	.025876
%RSD	.3677655	.2229686	.1453433	1.069310	.1684965	.3782537	.5535569
#1	.2385367	2.332314	23.46568	.9638001	2.331687	1.180631	4.702937
#2	.2388538	2.342589	23.50183	.9460603	2.339525	1.182226	4.668402
#3	.2372030	2.335946	23.43366	.9462762	2.336226	1.189062	4.652289

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.346975	23.25704	2.339901	1.175463	23.35979	2.344081	2.368635
Stddev	.012890	.04990	.003718	.007068	.15990	.002793	.010350
%RSD	.5492375	.2145799	.1589014	.6012731	.6845043	.1191712	.4369605
#1	2.349728	23.30625	2.336063	1.183610	23.51922	2.347024	2.378700
#2	2.358266	23.25841	2.343486	1.171804	23.36073	2.343752	2.369184
#3	2.332930	23.20647	2.340155	1.170975	23.19943	2.341466	2.358022

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.03185	4.728829	4.739409	4.678525	4.644886	4.583608	4.787429
Stddev	.11492	.013915	.009362	.011624	.015791	.008711	.027510
%RSD	.4989737	.2942607	.1975287	.2484442	.3399703	.1900367	.5746227
#1	23.16452	4.729643	4.740141	4.678569	4.641379	4.588075	4.812032
#2	22.96784	4.742319	4.729703	4.690126	4.662136	4.573571	4.792529
#3	22.96317	4.714524	4.748384	4.666879	4.631143	4.589180	4.757727

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV02 Acquired: 11/14/2024 15:35:51 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.529238	4.636121	4.736352
Stddev	.022455	.004446	.011809
%RSD	.4957811	.0959004	.2493218
#1	4.554169	4.633889	4.741924
#2	4.522944	4.641241	4.722788
#3	4.510602	4.633233	4.744344

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2634.837	60759.80	13414.81	1884.117	4179.734
Stddev	14.467	446.90	50.75	12.123	13.620
%RSD	.5490830	.7355191	.3783445	.6434298	.3258552
#1	2640.073	60246.49	13377.17	1871.098	4188.060
#2	2645.958	60970.65	13394.72	1886.170	4187.125
#3	2618.481	61062.28	13472.53	1895.082	4164.016

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB02 Acquired: 11/14/2024 15:40:02 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000086	-.000903	.0002771	-.001073	-.000240	.0006791	-.001099
Stddev	.002624	.001088	.0013399	.000256	.000573	.0046688	.000229
%RSD	3035.580	120.4980	483.5116	23.80992	238.9174	687.5028	20.86307
#1	-.001254	-.002158	.0008835	-.000779	.000208	.0050784	-.000841
#2	-.001924	-.000229	-.001259	-.001201	-.000885	-.004219	-.001281
#3	.002919	-.000321	.001207	-.001240	-.000043	.001178	-.001174

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000074	-.000047	.0090637	.0000451	.0001535	-.000080	.0007483
Stddev	.0000426	.000033	.0031807	.0002118	.0000666	.000134	.0053492
%RSD	575.1575	69.13147	35.09303	469.4954	43.36617	166.5425	714.8731
#1	.0000405	-.000029	.0096984	.0002739	.0000769	-.000227	.0068586
#2	-.000041	-.000085	.0056135	.0000053	.0001865	.000034	-.001524
#3	.000022	-.000028	.0118792	-.000144	.0001971	-.000048	-.003090

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001549	.0080250	.0002014	-.000049	-.161140	.0006748	.0007903
Stddev	.0001835	.0036847	.0001519	.000090	.016186	.0010013	.0001849
%RSD	118.4612	45.91591	75.41887	185.2809	10.04469	148.3821	23.39724
#1	.0003568	.0044370	.0002670	-.000113	-.178087	.0016168	.0009845
#2	.0001098	.0117994	.0000277	.000055	-.159494	-.000377	.0006164
#3	-.000002	.0078384	.0003094	-.000088	-.145840	.000784	.0007699

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.030424	.0063718	-.000061	.0034216	-.000185	.0012846	-.003629
Stddev	.017926	.0006380	.000083	.0001760	.000320	.0034521	.002030
%RSD	58.92191	10.01284	135.6297	5.143031	172.6994	268.7230	55.94503
#1	-.035506	.0071011	.000027	.0032467	.000184	-.000044	-.005368
#2	-.045261	.0059171	-.000072	.0035987	-.000387	-.001305	-.004121
#3	-.010505	.0060972	-.000139	.0034195	-.000353	.005204	-.001398

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB02 Acquired: 11/14/2024 15:40:02 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000042	.0000065	-.000019
Stddev	.001019	.0002800	.000017
%RSD	2416.101	4308.314	88.62134
#1	-.000612	-.000316	-.000035
#2	.001134	.000192	-.000021
#3	-.000649	.000143	-.000001

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2767.750	62614.25	13387.12	1921.658	4800.170
Stddev	27.134	116.73	168.52	7.825	47.894
%RSD	.9803678	.1864234	1.258848	.4071987	.9977622
#1	2736.581	62748.93	13192.83	1930.508	4745.911
#2	2780.572	62551.50	13474.76	1918.810	4818.039
#3	2786.098	62542.31	13493.76	1915.656	4836.561

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164797BL Acquired: 11/14/2024 15:44:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002346	-.000801	-.000347	-.001623	-.000152	.0011578	-.001470
Stddev	.001848	.001103	.001367	.001024	.000901	.0043951	.000397
%RSD	78.79171	137.6492	394.4156	63.10050	594.1485	379.6103	27.02353
#1	-.002177	-.001533	-.001924	-.000602	-.001093	.0057020	-.001041
#2	-.004273	-.001337	.000481	-.001617	-.000063	.0008426	-.001825
#3	-.000588	.000467	.000403	-.002650	.000701	-.003071	-.001546

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000082	-.000022	.0013396	.0000513	.0001125	-.000196	.0012947
Stddev	.0000564	.000071	.0025347	.0002137	.0000313	.000163	.0021143
%RSD	684.1339	322.5980	189.2066	416.7404	27.85674	83.43192	163.2979
#1	.0000692	.000036	-.000820	.0002901	.0001478	-.000368	.0036228
#2	-.000042	-.000001	.004130	-.000015	.0000880	-.000175	.0007674
#3	-.000002	-.000101	.000709	-.000122	.0001017	-.000043	-.000506

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000084	.0007981	.0002683	.0000945	-.154924	-.000312	.0005389
Stddev	.0001264	.0050394	.0003121	.0000942	.011284	.000944	.0000879
%RSD	1504.517	631.4458	116.3051	99.63352	7.283702	302.5124	16.30758
#1	.0001522	-.003998	.0005089	.0000308	-.166570	-.000209	.0006312
#2	-.000042	.000343	.0003804	.0002027	-.154161	-.001303	.0004562
#3	-.000085	.006050	-.000084	.0000500	-.144040	.000576	.0005294

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.040081	.0027750	-.000001	.0115791	-.000229	.0038849	.0002822
Stddev	.024340	.0003193	.000077	.0008491	.000163	.0031296	.0010525
%RSD	60.72726	11.50717	5521.001	7.332643	71.26038	80.55645	373.0089
#1	-.031538	.0024259	.000045	.0114760	-.000086	.0018296	-.000195
#2	-.021164	.0028467	-.000091	.0107864	-.000407	.0023385	-.000447
#3	-.067541	.0030523	.000041	.0124751	-.000194	.0074867	.001489

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164797BL Acquired: 11/14/2024 15:44:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005355	.0002652	-.000050
Stddev	.0009038	.0001258	.000014
%RSD	168.7759	47.44118	27.39094
#1	-.000234	.0004045	-.000066
#2	.001531	.0002313	-.000041
#3	.000310	.0001598	-.000043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2666.316	61296.26	13300.67	1856.034	4621.101
Stddev	10.178	227.55	51.45	4.465	19.268
%RSD	.3817185	.3712335	.3868437	.2405860	.4169531
#1	2664.880	61512.79	13241.91	1860.266	4612.977
#2	2656.932	61316.89	13322.44	1856.469	4607.226
#3	2677.136	61059.09	13337.66	1851.367	4643.100

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164797BS Acquired: 11/14/2024 15:48:57 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7830254	1.988747	.9617128	1.931158	.7719417	1.969820
Stddev	.0013357	.026930	.0019862	.004094	.0044885	.005606
%RSD	.1705792	1.354109	.2065295	.2119740	.5814599	.2845863
#1	.7842491	2.014312	.9633610	1.930092	.7700147	1.973799
#2	.7832264	1.991294	.9622699	1.927703	.7687385	1.972251
#3	.7816006	1.960633	.9595075	1.935679	.7770720	1.963409

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1943008	.1996699	.1887099	1.017791	.3955685	.1920537
Stddev	.0010571	.0009950	.0000776	.000699	.0017754	.0003988
%RSD	.5440332	.4983196	.0411423	.0687042	.4488267	.2076471
#1	.1930828	.2000973	.1887033	1.018583	.3938269	.1924685
#2	.1948407	.1985326	.1887907	1.017260	.3955027	.1916731
#3	.1949789	.2003797	.1886358	1.017529	.3973758	.1920197

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3067239	2.885043	.1994720	1.939920	.4841101	.0725583
Stddev	.0003607	.024963	.0015236	.013956	.0001665	.0002116
%RSD	.1175927	.8652515	.7637989	.7194243	.0343819	.2916445
#1	.3065766	2.858493	.1981683	1.926826	.4839274	.0725800
#2	.3064602	2.888599	.1991009	1.938333	.4842531	.0723367
#3	.3071349	2.908038	.2011468	1.954602	.4841497	.0727582

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.618294	.2967200	.2042951	9.389033	.2926016	.4023791
Stddev	.024446	.0009828	.0004192	.061492	.0012968	.0009715
%RSD	.9336777	.3312345	.2051844	.6549377	.4431889	.2414360
#1	2.590126	.2961254	.2043399	9.318100	.2917707	.4024393
#2	2.633974	.2961802	.2038553	9.427278	.2919382	.4013789
#3	2.630782	.2978544	.2046901	9.421721	.2940958	.4033190

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164797BS Acquired: 11/14/2024 15:48:57 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6773055	.1942582	F .6890943	5.472664	F -.009678	.2047324
Stddev	.0009343	.0017337	.0080810	.027088	.003668	.0021406
%RSD	.1379435	.8924925	1.172703	.4949611	37.89858	1.045556
#1	.6783504	.1926654	.6950464	5.496537	-.006441	.2025482
#2	.6765507	.1940043	.6798947	5.478228	-.008932	.2068265
#3	.6770154	.1961049	.6923418	5.443226	-.013662	.2048226

Elem	Sr4077
Units	ppm
Avg	.2019256
Stddev	.0006589
%RSD	.3263144
#1	.2012160
#2	.2025181
#3	.2020429

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2605.813	60259.49	12984.78	1831.980	4375.588
Stddev	6.752	41.97	20.52	5.408	5.977
%RSD	.2591046	.0696560	.1580114	.2952061	.1366040
#1	2611.136	60296.52	12962.00	1829.732	4382.414
#2	2608.085	60213.89	13001.82	1828.059	4373.055
#3	2598.218	60268.06	12990.51	1838.150	4371.294

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164935BL Acquired: 11/14/2024 15:52:57 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000761	-.001644	-.000661	-.001231	-.000301	.0100990	-.001435
Stddev	.002834	.000705	.000492	.001399	.001030	.0028370	.000383
%RSD	372.3143	42.85981	74.40833	113.6781	342.7807	28.09222	26.66627
#1	.002486	-.001446	-.001005	-.000913	.000868	.0103792	-.001874
#2	-.002030	-.002426	-.000880	-.000018	-.000693	.0071323	-.001176
#3	-.002740	-.001060	-.000098	-.002762	-.001077	.0127855	-.001255

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000653	-.000008	-.001426	.0001414	.0002285	.0001355	.0058093
Stddev	.0000186	.000037	.006538	.0003033	.0000685	.0002347	.0025291
%RSD	28.48381	437.4133	458.5844	214.5219	29.98228	173.1392	43.53529
#1	.0000732	.000027	-.006064	-.000107	.0001505	.0003353	.0067017
#2	.0000788	-.000005	.006052	.000052	.0002788	.0001942	.0029550
#3	.0000441	-.000046	-.004265	.000479	.0002563	-.000123	.0077713

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000043	.0015661	.0003883	-.000088	-.170316	.0010946	.0007224
Stddev	.000017	.0003942	.0001793	.000106	.001322	.0005067	.0001473
%RSD	39.79790	25.17107	46.17218	120.0044	.7764195	46.28836	20.38389
#1	-.000053	.0018208	.0001935	-.000006	-.169280	.0007817	.0005749
#2	-.000051	.0011120	.0005464	-.000208	-.171806	.0016791	.0007227
#3	-.000023	.0017654	.0004250	-.000051	-.169863	.0008229	.0008695

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.036182	.0017160	-.000118	.0112943	-.000238	.0036826	-.000538
Stddev	.016237	.0006272	.000101	.0005062	.000336	.0031974	.000976
%RSD	44.87635	36.54934	86.03144	4.481824	141.1293	86.82409	181.4594
#1	-.054199	.0011541	-.000229	.0115533	-.000283	.0004166	-.000027
#2	-.031667	.0023927	-.000093	.0116185	-.000549	.0068067	-.001663
#3	-.022680	.0016013	-.000031	.0107110	.000118	.0038246	.000077

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164935BL Acquired: 11/14/2024 15:52:57 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001045	-.000578	-.000057
Stddev	.001907	.000245	.000038
%RSD	182.5384	42.45504	65.54895
#1	.000593	-.000314	-.000027
#2	-.003139	-.000622	-.000046
#3	-.000589	-.000798	-.000099

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2760.031	62300.01	13556.53	1912.947	4778.673
Stddev	7.632	186.76	35.54	12.193	14.840
%RSD	.2765031	.2997685	.2621457	.6374164	.3105387
#1	2768.276	62162.36	13553.74	1911.475	4795.666
#2	2753.215	62225.08	13522.47	1901.557	4768.268
#3	2758.602	62512.60	13593.38	1925.810	4772.084

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164935BS Acquired: 11/14/2024 15:57:18 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7285959	1.859915	.9043858	1.769053	.7132726	1.841085
Stddev	.0017302	.050936	.0044028	.004395	.0028121	.007785
%RSD	.2374758	2.738615	.4868291	.2484628	.3942558	.4228716
#1	.7290107	1.801924	.8999721	1.764492	.7114131	1.834526
#2	.7300810	1.880411	.9044077	1.773262	.7165077	1.839040
#3	.7266959	1.897411	.9087777	1.769405	.7118970	1.849689

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1859134	.1925330	.1773759	.9768529	.3724293	.1807084
Stddev	.0002139	.0008341	.0007585	.0083472	.0006427	.0010900
%RSD	.1150428	.4331997	.4276327	.8544961	.1725674	.6032060
#1	.1857107	.1929437	.1768945	.9672691	.3723733	.1795822
#2	.1861369	.1915732	.1769829	.9825329	.3730981	.1807848
#3	.1858926	.1930820	.1782503	.9807566	.3718164	.1817582

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2855677	2.731195	.1922585	1.840734	.4547732	.0688634
Stddev	.0014714	.015199	.0012770	.010796	.0017289	.0003430
%RSD	.5152432	.5564919	.6642270	.5865093	.3801679	.4981300
#1	.2841197	2.718857	.1910921	1.841676	.4530204	.0692453
#2	.2855220	2.748173	.1920604	1.829497	.4548221	.0685815
#3	.2870613	2.726554	.1936230	1.851028	.4564771	.0687633

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.451721	.2801646	.1920158	8.775131	.2809671	.3742267
Stddev	.012427	.0026900	.0009053	.021990	.0011450	.0006831
%RSD	.5068783	.9601409	.4714928	.2505890	.4075274	.1825270
#1	2.439579	.2785917	.1910387	8.749868	.2821515	.3734619
#2	2.464415	.2786315	.1921824	8.785557	.2798660	.3744421
#3	2.451168	.2832706	.1928263	8.789968	.2808836	.3747761

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164935BS Acquired: 11/14/2024 15:57:18 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6363792	.1848456	F .6389071	5.220821	F -.008649	.1917975
Stddev	.0029954	.0008794	.0084268	.049607	.000476	.0005661
%RSD	.4706969	.4757424	1.318942	.9501822	5.504412	.2951775
#1	.6335315	.1840535	.6301292	5.169023	-.008234	.1917254
#2	.6361027	.1846913	.6396596	5.225538	-.008544	.1923962
#3	.6395032	.1857919	.6469324	5.267901	-.009168	.1912709

Elem	Sr4077
Units	ppm
Avg	.1909789
Stddev	.0004018
%RSD	.2103782
#1	.1912137
#2	.1905149
#3	.1912080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2736.786	62084.48	13180.87	1935.801	4567.860
Stddev	4.580	104.72	24.50	8.684	5.926
%RSD	.1673501	.1686674	.1858664	.4486137	.1297391
#1	2734.462	62156.16	13165.45	1932.885	4574.004
#2	2733.833	61964.31	13209.12	1928.950	4567.398
#3	2742.062	62132.99	13168.05	1945.568	4562.179

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164869TB Acquired: 11/14/2024 16:01:18 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006866	-.007412	-.000477	.0022452	.0004337	.0097454
Stddev	.000668	.001535	.000548	.0015652	.0003305	.0043647
%RSD	9.732947	20.70216	114.7992	69.71477	76.19054	44.78726
#1	-.006933	-.008312	-.000913	.0017621	.0004649	.0049636
#2	-.007498	-.005641	.000138	.0039950	.0000888	.0107575
#3	-.006167	-.008284	-.000657	.0009785	.0007475	.0135151

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001370	-.000181	-.000259	-.003499	.0002340	-.000207
Stddev	.000085	.000044	.000029	.006077	.0001241	.000205
%RSD	6.221877	24.37737	11.35132	173.6889	53.02225	99.48310
#1	-.001453	-.000221	-.000262	-.009974	.0002526	-.000431
#2	-.001283	-.000187	-.000286	-.002602	.0001017	-.000160
#3	-.001375	-.000134	-.000228	.002080	.0003477	-.000029

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005889	.0293935	.0006910	.0004503	.0002159	-.000029
Stddev	.0001704	.0030620	.0002384	.0028777	.0001033	.000248
%RSD	28.93014	10.41724	34.50371	639.0399	47.85106	844.5471
#1	.0007253	.0270539	.0004770	-.002301	.0002298	-.000300
#2	.0006436	.0282676	.0009480	.003439	.0001063	.000022
#3	.0003979	.0328591	.0006480	.000213	.0003115	.000189

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.454273	-.000259	.0003474	-.102242	.0001007	.0002343
Stddev	.003028	.000438	.0001507	.012786	.0001112	.0000590
%RSD	.6664946	169.2028	43.38648	12.50566	110.4063	25.18694
#1	-.451672	-.000046	.0002011	-.110308	.0002288	.0002567
#2	-.453551	.000032	.0003388	-.108919	.0000447	.0002789
#3	-.457597	-.000762	.0005022	-.087500	.0000287	.0001674

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164869TB Acquired: 11/14/2024 16:01:18 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003334	-.000170	.0090624	.0053930	F 13.76595	-.001252
Stddev	.000668	.000139	.0016694	.0009137	.05900	.000346
%RSD	20.03250	81.82247	18.42074	16.94211	.4285607	27.65038
#1	-.004051	-.000302	.0077574	.0064296	13.70853	-.001002
#2	-.003218	-.000184	.0084864	.0047047	13.76291	-.001648
#3	-.002731	-.000025	.0109436	.0050448	13.82640	-.001108

Elem	Sr4077
Units	ppm
Avg	-.000101
Stddev	.000004
%RSD	3.553011
#1	-.000098
#2	-.000101
#3	-.000105

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2717.807	64536.72	13848.55	1928.909	4816.277
Stddev	5.881	193.19	14.54	8.665	8.547
%RSD	.2163974	.2993413	.1049572	.4492334	.1774656
#1	2716.503	64327.17	13862.46	1920.775	4822.526
#2	2724.230	64575.29	13849.74	1938.022	4819.769
#3	2712.687	64707.72	13833.46	1927.929	4806.537

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164869BL Acquired: 11/14/2024 16:05:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000875	-.001124	-.000173	-.000206	-.000586	-.001592	-.001484
Stddev	.001254	.000703	.000613	.000563	.000157	.003801	.000102
%RSD	143.2722	62.51454	354.9280	273.6762	26.75055	238.7159	6.893135
#1	.000297	-.000518	.000340	-.000259	-.000483	.002302	-.001600
#2	-.002197	-.000959	-.000852	-.000740	-.000509	-.001787	-.001450
#3	-.000725	-.001895	-.000006	.000382	-.000766	-.005293	-.001404

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000493	-.000047	-.003006	.0002060	-.000027	-.000347	-.000248
Stddev	.0000457	.000051	.005517	.0001827	.000069	.000197	.001740
%RSD	92.67128	109.8340	183.5181	88.66034	256.1619	56.69561	702.9967
#1	.0000674	-.000039	-.009269	.0003817	-.000067	-.000392	.000464
#2	-.000003	.000001	-.000883	.0002194	-.000066	-.000132	-.002231
#3	.000083	-.000101	.001134	.0000171	.000052	-.000518	.001024

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000100	.0037450	.0002930	-.000184	-.183446	-.001062	.0005035
Stddev	.000139	.0077249	.0000893	.000331	.003893	.000114	.0001124
%RSD	139.2263	206.2713	30.48724	180.2477	2.122077	10.72597	22.33098
#1	.000023	.0104487	.0002760	.000196	-.180503	-.001056	.0004779
#2	-.000250	.0054893	.0003897	-.000415	-.187860	-.001179	.0006265
#3	-.000072	-.004703	.0002135	-.000332	-.181975	-.000951	.0004060

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.046088	-.000376	-.000142	.0115856	.0000584	.0034397	-.000221
Stddev	.011877	.000091	.000229	.0005685	.0004992	.0008962	.000525
%RSD	25.77045	24.14387	160.9415	4.906807	854.7499	26.05353	237.7522
#1	-.056041	-.000272	-.000033	.0118643	.0005342	.0044736	-.000148
#2	-.049281	-.000442	.000011	.0119610	.0001024	.0029609	-.000778
#3	-.032940	-.000413	-.000405	.0109316	-.000461	.0028847	.000264

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164869BL Acquired: 11/14/2024 16:05:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001417	.0002388	-.000062
Stddev	.000939	.0008567	.000013
%RSD	66.25671	358.7076	21.41799
#1	-.001179	-.000716	-.000055
#2	-.002453	.000492	-.000077
#3	-.000620	.000941	-.000054

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2645.880	60793.38	13208.67	1845.703	4611.191
Stddev	10.512	220.92	22.21	12.603	14.024
%RSD	.3973050	.3634013	.1681130	.6828195	.3041302
#1	2645.925	60567.92	13195.20	1836.256	4611.909
#2	2656.369	60802.74	13234.30	1840.842	4624.841
#3	2635.345	61009.47	13196.52	1860.013	4596.821

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164869BS Acquired: 11/14/2024 16:09:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7492995	1.871279	.9207357	1.846756	.7380290	1.915724
Stddev	.0078238	.026637	.0076018	.024333	.0085223	.009941
%RSD	1.044147	1.423459	.8256180	1.317608	1.154736	.5188970
#1	.7537320	1.861908	.9243318	1.855333	.7397080	1.904462
#2	.7539005	1.901335	.9258722	1.865640	.7455868	1.919433
#3	.7402659	1.850595	.9120031	1.819296	.7287921	1.923277

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1892210	.1939375	.1803415	.9922506	.3805152	.1837118
Stddev	.0012151	.0009888	.0015252	.0008881	.0015704	.0017314
%RSD	.6421654	.5098689	.8457315	.0895020	.4126989	.9424407
#1	.1880854	.1947662	.1815076	.9927155	.3819625	.1849809
#2	.1905025	.1942033	.1809014	.9912266	.3807376	.1844151
#3	.1890752	.1928429	.1786154	.9928097	.3788454	.1817395

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2936050	2.771859	.1933642	1.887615	.4628291	.0699215
Stddev	.0030227	.009027	.0008124	.011004	.0036804	.0000573
%RSD	1.029522	.3256489	.4201308	.5829472	.7951968	.0819679
#1	.2951927	2.781915	.1925559	1.876949	.4650861	.0698677
#2	.2955030	2.764458	.1941806	1.886966	.4648191	.0699152
#3	.2901193	2.769204	.1933560	1.898928	.4585821	.0699818

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.483932	.2884042	.1980387	9.058813	.2825362	.3860003
Stddev	.011500	.0024944	.0010050	.040464	.0005489	.0037857
%RSD	.4629883	.8648814	.5074827	.4466776	.1942806	.9807378
#1	2.470691	.2857134	.1974977	9.044573	.2831138	.3863821
#2	2.489685	.2888601	.1974200	9.027395	.2820213	.3895805
#3	2.491421	.2906392	.1991983	9.104472	.2824736	.3820382

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164869BS Acquired: 11/14/2024 16:09:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6476212	.1884551	F .6646789	5.209598	F -.006688	.1989234
Stddev	.0062926	.0010839	.0035895	.044281	.001185	.0006069
%RSD	.9716426	.5751339	.5400356	.8499951	17.71565	.3050868
#1	.6525412	.1872225	.6605401	5.215760	-.008055	.1982778
#2	.6497917	.1888837	.6665538	5.250476	-.006050	.1990100
#3	.6405307	.1892591	.6669426	5.162558	-.005958	.1994823

Elem	Sr4077
Units	ppm
Avg	.1967705
Stddev	.0006918
%RSD	.3515701
#1	.1959735
#2	.1972160
#3	.1971219

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2680.386	62029.93	13228.08	1870.581	4519.095
Stddev	22.899	95.21	19.85	9.314	34.128
%RSD	.8543011	.1534958	.1500417	.4979409	.7551911
#1	2673.731	61961.82	13246.61	1878.289	4503.316
#2	2661.553	62138.72	13207.14	1873.223	4495.712
#3	2705.875	61989.24	13230.48	1860.231	4558.257

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164880TB Acquired: 11/14/2024 16:13:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013384	-.014439	-.000573	.0087745	.0021505	.0020594
Stddev	.001553	.001291	.001290	.0011345	.0004126	.0035758
%RSD	11.60287	8.943599	225.1995	12.92897	19.18659	173.6352
#1	-.013130	-.013783	-.001942	.0091350	.0025373	-.002035
#2	-.011974	-.013607	.000620	.0075036	.0021981	.004568
#3	-.015048	-.015927	-.000396	.0096849	.0017162	.003645

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002570	-.000377	-.000376	.0160242	.0000905	-.000498
Stddev	.000319	.000006	.000034	.0089878	.0002852	.000218
%RSD	12.42429	1.709670	8.918578	56.08891	315.0763	43.74889
#1	-.002623	-.000379	-.000414	.0241100	-.000036	-.000248
#2	-.002859	-.000383	-.000353	.0063470	.000417	-.000646
#3	-.002227	-.000370	-.000360	.0176157	-.000110	-.000599

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004167	.0086650	.0005745	-.002006	.0007237	-.000481
Stddev	.0004524	.0024726	.0000577	.006686	.0002006	.000167
%RSD	108.5678	28.53581	10.03513	333.3164	27.71302	34.74959
#1	-.000095	.0073203	.0005664	-.006249	.0005261	-.000621
#2	.000579	.0071561	.0006358	.005701	.0009271	-.000296
#3	.000765	.0115186	.0005214	-.005469	.0007180	-.000526

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 398.7171	.0000447	.0017955	-.020737	.0000317	.0004033
Stddev	1.0137	.0011213	.0000987	.010670	.0003956	.0002856
%RSD	.2542478	2505.763	5.496737	51.45507	1248.127	70.82311
#1	397.5598	-.000840	.0019021	-.019562	.0004700	.0001564
#2	399.4478	-.000331	.0017074	-.031945	-.000299	.0003374
#3	399.1437	.001306	.0017770	-.010702	-.000076	.0007162

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164880TB Acquired: 11/14/2024 16:13:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000920	-.000210	.0269477	.0041819	.0170842	-.001635
Stddev	.000837	.000430	.0049807	.0025799	.0019610	.000437
%RSD	91.05534	204.5131	18.48287	61.69175	11.47856	26.74654
#1	.000024	.000111	.0321973	.0022711	.0188373	-.001167
#2	-.001209	-.000043	.0263572	.0031581	.0174490	-.001703
#3	-.001575	-.000699	.0222885	.0071166	.0149664	-.002034

Elem	Sr4077
Units	ppm
Avg	-.000070
Stddev	.000032
%RSD	46.45854
#1	-.000106
#2	-.000043
#3	-.000060

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2346.168	52768.39	12534.43	1610.695	3788.829
Stddev	7.513	278.75	28.85	12.933	6.960
%RSD	.3202049	.5282613	.2301573	.8029544	.1837074
#1	2339.350	52668.45	12501.17	1612.510	3781.302
#2	2344.930	52553.39	12552.67	1596.951	3790.155
#3	2354.222	53083.34	12549.45	1622.625	3795.032

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164890TB Acquired: 11/14/2024 16:18:28 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.012861	-.011457	-.001561	.0069781	.0016456	.0054453
Stddev	.003635	.001321	.000235	.0020498	.0004422	.0012610
%RSD	28.26606	11.52691	15.05368	29.37505	26.87371	23.15720
#1	-.009373	-.012431	-.001477	.0046112	.0021470	.0056071
#2	-.012581	-.011986	-.001379	.0081613	.0014791	.0066176
#3	-.016627	-.009954	-.001826	.0081618	.0013109	.0041113

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001168	-.000357	-.000362	.0120589	.0004950	-.000313
Stddev	.000397	.000006	.000021	.0011483	.0001348	.000026
%RSD	34.01285	1.726718	5.723528	9.522440	27.23479	8.214101
#1	-.001619	-.000360	-.000343	.0133699	.0006486	-.000337
#2	-.000871	-.000350	-.000360	.0112317	.0003960	-.000286
#3	-.001013	-.000360	-.000384	.0115749	.0004405	-.000316

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007431	.0074075	.0013368	-.001797	.0009114	-.000346
Stddev	.0002655	.0048935	.0001411	.008816	.0000965	.000169
%RSD	35.72946	66.06101	10.55458	490.5951	10.58560	48.67662
#1	.0004491	.0112269	.0012891	.008175	.0010162	-.000152
#2	.0008147	.0018915	.0012258	-.005010	.0008917	-.000458
#3	.0009655	.0091043	.0014956	-.008556	.0008263	-.000429

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 469.1007	.0009276	.0020002	-.014863	-.000535	.0003957
Stddev	1.9042	.0008125	.0000301	.022228	.000285	.0001197
%RSD	.4059185	87.59603	1.503254	149.5505	53.17196	30.24652
#1	470.7421	.0011396	.0019978	-.032886	-.000518	.0003083
#2	467.0130	.0016132	.0019713	.009974	-.000260	.0005321
#3	469.5470	.0000301	.0020313	-.021676	-.000828	.0003467

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164890TB Acquired: 11/14/2024 16:18:28 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001450	-.000254	.0160272	.0033574	F .0201009	-.001507
Stddev	.000217	.000140	.0040298	.0028394	.0037189	.000180
%RSD	14.99256	55.15484	25.14372	84.57003	18.50090	11.92659
#1	-.001333	-.000382	.0144116	.0065128	.0183500	-.001603
#2	-.001701	-.000276	.0206142	.0010086	.0243720	-.001618
#3	-.001317	-.000104	.0130559	.0025508	.0175807	-.001299

Elem	Sr4077
Units	ppm
Avg	-.000087
Stddev	.000017
%RSD	19.51538
#1	-.000072
#2	-.000084
#3	-.000106

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2392.366	53989.68	12643.74	1674.256	3804.197
Stddev	2.038	95.66	28.19	10.145	6.577
%RSD	.0851809	.1771848	.2229775	.6059423	.1728790
#1	2390.576	53959.40	12669.96	1664.780	3797.031
#2	2391.937	54096.81	12613.92	1684.958	3805.603
#3	2394.583	53912.82	12647.33	1673.029	3809.956

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164926BL Acquired: 11/14/2024 16:22:58 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000429	-.000511	-.000891	-.001402	-.000205	-.003597	-.000499
Stddev	.002496	.000525	.000303	.000684	.000195	.002027	.000177
%RSD	581.3436	102.7262	33.96505	48.77007	95.02761	56.35048	35.43075
#1	.002213	-.000991	-.001228	-.001318	-.000218	-.004727	-.000351
#2	-.002747	-.000590	-.000643	-.002123	-.000004	-.001257	-.000451
#3	-.000753	.000049	-.000801	-.000764	-.000394	-.004806	-.000695

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000372	-.000065	.0135259	-.000306	.0000646	-.000162	.0016795
Stddev	.0000551	.000049	.0065389	.000288	.0001319	.000226	.0028335
%RSD	148.0017	74.66762	48.34341	94.21245	204.2515	139.7966	168.7118
#1	.0000930	-.000081	.0196662	.000011	.0000030	.000010	.0017028
#2	-.000017	-.000011	.0142611	-.000375	-.000025	-.000077	-.001166
#3	.000036	-.000104	.0066505	-.000553	.000216	-.000418	.004501

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000692	.0019191	.0002661	-.000321	-.069626	.0004868	.0008263
Stddev	.0001583	.0080316	.0000758	.000143	.014759	.0007986	.0004772
%RSD	228.5652	418.5100	28.48987	44.55787	21.19716	164.0371	57.75121
#1	.0000670	.0102153	.0001788	-.000205	-.075781	.0002914	.0007354
#2	.0002286	-.005819	.0003049	-.000277	-.080311	-.000196	.0013425
#3	-.000088	.001361	.0003147	-.000480	-.052786	.001365	.0004011

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.043350	-.000688	-.000296	.0028676	-.000152	.0034812	-.000645
Stddev	.014191	.000317	.000154	.0001716	.000466	.0012262	.000916
%RSD	32.73641	46.11857	51.95220	5.983195	306.1412	35.22356	142.0371
#1	-.056512	-.001020	-.000138	.0029193	-.000578	.0043647	-.000200
#2	-.045221	-.000655	-.000445	.0030073	.000345	.0039977	-.001699
#3	-.028316	-.000388	-.000305	.0026761	-.000223	.0020813	-.000036

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164926BL Acquired: 11/14/2024 16:22:58 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0016796	.0001650	-.000065
Stddev	.0029646	.0008382	.000024
%RSD	176.5048	507.9621	35.95875
#1	-.000731	-.000792	-.000092
#2	.004990	.000517	-.000046
#3	.000780	.000770	-.000058

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2705.159	60808.36	13113.77	1885.137	4668.800
Stddev	4.150	258.75	260.28	13.684	10.965
%RSD	.1534225	.4255201	1.984819	.7258730	.2348485
#1	2700.366	60515.84	13413.60	1869.632	4658.528
#2	2707.529	61007.32	12981.88	1895.526	4667.526
#3	2707.580	60901.92	12945.84	1890.251	4680.346

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV03 Acquired: 11/14/2024 16:27:19 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.109043	5.054801	5.087909	5.130269	5.142092	9.842410	9.597232
Stddev	.006316	.071436	.002171	.035962	.008457	.107034	.116617
%RSD	.1236245	1.413226	.0426745	.7009804	.1644637	1.087481	1.215113
#1	5.107431	4.972315	5.089071	5.100492	5.135123	9.753789	9.507682
#2	5.103689	5.095807	5.085404	5.120092	5.139653	9.812114	9.554914
#3	5.116009	5.096283	5.089251	5.170223	5.151501	9.961327	9.729100

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2445045	2.537905	24.27265	1.016440	2.541851	1.296318	4.938351
Stddev	.0023315	.002592	.24977	.017557	.002721	.003560	.083943
%RSD	.9535620	.1021245	1.029018	1.727286	.1070638	.2746421	1.699813
#1	.2428690	2.540843	24.03382	1.006740	2.544609	1.296355	4.878567
#2	.2434704	2.535943	24.25205	1.005874	2.539168	1.292740	4.902170
#3	.2471742	2.536930	24.53209	1.036707	2.541774	1.299860	5.034317

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.397082	24.17755	2.548502	1.246106	24.68918	2.445409	2.540879
Stddev	.025766	.23847	.003361	.020270	.45991	.029062	.053634
%RSD	1.074888	.9863150	.1318975	1.626657	1.862807	1.188412	2.110840
#1	2.372652	23.98425	2.552369	1.236404	24.47948	2.419888	2.509034
#2	2.394592	24.10435	2.546274	1.232511	24.37150	2.439299	2.510802
#3	2.424003	24.44403	2.546864	1.269404	25.21657	2.477040	2.602802

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.74932	4.834572	5.193167	5.090218	4.824172	4.943398	5.146203
Stddev	.46101	.043206	.014662	.006264	.049986	.099458	.018865
%RSD	1.862721	.8936951	.2823377	.1230639	1.036147	2.011929	.3665796
#1	24.48041	4.809662	5.180013	5.083079	4.783456	4.864355	5.151158
#2	24.48590	4.809593	5.190514	5.094796	4.809102	4.910767	5.162097
#3	25.28164	4.884463	5.208975	5.092779	4.879959	5.055072	5.125356

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV03 Acquired: 11/14/2024 16:27:19 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.909779	4.820475	4.935328
Stddev	.008706	.057063	.031068
%RSD	.1773221	1.183754	.6295047
#1	4.900661	4.779128	4.900977
#2	4.918005	4.796718	4.943547
#3	4.910669	4.885578	4.961461

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2416.719	56973.72	13052.30	1716.131	3853.819
Stddev	7.674	829.83	94.20	32.801	6.563
%RSD	.3175260	1.456521	.7216929	1.911357	.1702901
#1	2420.852	57418.27	13126.95	1735.595	3853.391
#2	2421.441	57486.57	13083.48	1734.538	3860.585
#3	2407.865	56016.32	12946.46	1678.260	3847.481

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB03 Acquired: 11/14/2024 16:31:30 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000628	-.001820	.0005265	-.001069	-.000793	-.004015	-.001597
Stddev	.000906	.001069	.0008435	.000637	.000564	.003321	.000656
%RSD	144.2998	58.70879	160.1971	59.62101	71.12829	82.73176	41.08868
#1	-.000903	-.000599	-.000358	-.000518	-.000756	-.000399	-.001607
#2	-.001364	-.002585	.000616	-.001767	-.000249	-.004715	-.000936
#3	.000384	-.002275	.001322	-.000921	-.001375	-.006930	-.002248

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000376	-.000096	.0142641	-.000081	.0001103	-.000382	.0004083
Stddev	.0000647	.000039	.0023321	.000114	.0000151	.000211	.0032464
%RSD	172.0257	41.20998	16.34938	140.0849	13.66479	55.20754	795.0406
#1	.0000248	-.000060	.0129318	-.000206	.0001168	-.000527	-.000270
#2	-.000020	-.000090	.0129036	-.000057	.0000931	-.000478	-.002445
#3	.000108	-.000138	.0169569	.000019	.0001211	-.000140	.003940

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000098	.0035543	.0002714	-.000083	-.153824	.0001834	.0009926
Stddev	.000143	.0081517	.0000883	.000182	.012274	.0005582	.0001033
%RSD	146.2315	229.3466	32.53563	221.0213	7.979147	304.3689	10.40123
#1	-.000051	.0114668	.0003716	-.000101	-.163839	.0008267	.0010708
#2	-.000258	.0040133	.0002050	-.000255	-.157502	-.000173	.0008756
#3	.000016	-.004817	.0002376	.000109	-.140132	-.000103	.0010316

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.049734	.0043653	.0001538	.0034524	-.000160	.0072688	-.000898
Stddev	.002902	.0005353	.0000581	.0006983	.000270	.0015057	.001131
%RSD	5.835078	12.26225	37.79154	20.22719	168.5723	20.71394	125.9768
#1	-.052249	.0046840	.0001226	.0026675	.000142	.0069942	-.002022
#2	-.046559	.0046647	.0001179	.0036848	-.000244	.0059194	-.000911
#3	-.050394	.0037474	.0002209	.0040048	-.000379	.0088929	.000240

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB03 Acquired: 11/14/2024 16:31:30 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0006907	-.000312	.0000159
Stddev	.0032034	.000424	.0000316
%RSD	463.8272	136.1703	199.1166
#1	.0043636	-.000772	.0000456
#2	-.001526	-.000228	.0000193
#3	-.000766	.000065	-.000017

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2575.063	60587.63	13024.16	1821.240	4476.626
Stddev	25.185	122.18	107.96	15.904	44.799
%RSD	.9780366	.2016645	.8289073	.8732271	1.000729
#1	2603.941	60668.79	12901.52	1835.704	4528.236
#2	2557.655	60647.00	13104.83	1823.805	4453.857
#3	2563.592	60447.11	13066.13	1804.209	4447.784

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164926BS Acquired: 11/14/2024 16:41:35 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7146510	1.866741	.8895145	1.745207	.6959969	1.838882
Stddev	.0059098	.030414	.0002891	.010419	.0019767	.007202
%RSD	.8269516	1.629242	.0324993	.5970080	.2840143	.3916458
#1	.7088967	1.832941	.8898371	1.734647	.6957633	1.837167
#2	.7143512	1.891898	.8892790	1.745496	.6941474	1.846787
#3	.7207050	1.875383	.8894274	1.755479	.6980801	1.832693

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1872406	.1939456	.1744813	.9897658	.3669407	.1779459
Stddev	.0004258	.0004810	.0003966	.0033499	.0004900	.0004459
%RSD	.2274308	.2480103	.2273224	.3384553	.1335285	.2505859
#1	.1876643	.1940875	.1740894	.9923778	.3667947	.1778265
#2	.1872449	.1943397	.1744721	.9859890	.3665403	.1775720
#3	.1868126	.1934096	.1748825	.9909306	.3674871	.1784394

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2806301	2.677882	.1927847	1.835464	.4477556	.0680762
Stddev	.0011916	.003233	.0011365	.007118	.0006925	.0000961
%RSD	.4246219	.1207179	.5895090	.3878077	.1546687	.1410848
#1	.2808150	2.676323	.1940950	1.835888	.4476228	.0679925
#2	.2793569	2.675724	.1921934	1.842361	.4471391	.0680549
#3	.2817185	2.681599	.1920659	1.828144	.4485050	.0681811

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.364302	.2816916	.1902067	8.544887	.2820770	.3672375
Stddev	.015263	.0017911	.0013392	.055914	.0022440	.0016460
%RSD	.6455815	.6358523	.7040956	.6543579	.7955389	.4482032
#1	2.359434	.2798788	.1913412	8.539128	.2831527	.3657380
#2	2.352067	.2834603	.1905494	8.492076	.2835806	.3669759
#3	2.381406	.2817357	.1887294	8.603458	.2794976	.3689986

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: PB164926BS Acquired: 11/14/2024 16:41:35 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6138346	.1839949	F .6217354	5.171453	F -.008248	.1918628
Stddev	.0031074	.0000743	.0069100	.024204	.001413	.0011595
%RSD	.5062343	.0403958	1.111405	.4680344	17.12686	.6043535
#1	.6127659	.1839818	.6295916	5.144773	-.009464	.1931980
#2	.6114025	.1839280	.6166000	5.177588	-.008580	.1911089
#3	.6173353	.1840749	.6190146	5.192001	-.006699	.1912816

Elem	Sr4077
Units	ppm
Avg	.1917339
Stddev	.0007512
%RSD	.3917910
#1	.1926013
#2	.1913097
#3	.1912909

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2815.585	64221.74	13275.33	1995.278	4705.524
Stddev	9.637	119.27	29.83	8.806	10.632
%RSD	.3422636	.1857231	.2247191	.4413382	.2259460
#1	2822.494	64192.82	13256.33	1985.615	4712.698
#2	2819.684	64352.81	13259.95	2002.850	4710.564
#3	2804.576	64119.58	13309.71	1997.370	4693.309

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-01 Acquired: 11/14/2024 16:45:36 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1404431	.0011665	.1421614	-.079269	-.002585	290.3102
Stddev	.0045360	.0022848	.0009684	.001407	.001332	7.0793
%RSD	3.229774	195.8634	.6812001	1.775513	51.54948	2.438538
#1	.1445185	-.000211	.1415910	-.079593	-.001339	282.4833
#2	.1355561	.003804	.1416136	-.080486	-.003990	296.2660
#3	.1412545	-.000094	.1432795	-.077727	-.002425	292.1812

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6511971	.0123779	.0493722	338.0562	.7570098	.3021211
Stddev	.0121008	.0003394	.0017727	7.0851	.0163182	.0056413
%RSD	1.858245	2.741771	3.590514	2.095831	2.155616	1.867237
#1	.6382434	.0120060	.0512837	330.1518	.7548463	.3085364
#2	.6622107	.0126708	.0490507	343.8355	.7418812	.2979349
#3	.6531373	.0124569	.0477822	340.1814	.7743018	.2998920

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.220230	411.8003	5.884298	185.6630	.5727332	.0089694
Stddev	.021610	7.2680	.123419	3.9704	.0094979	.0006429
%RSD	1.770961	1.764944	2.097423	2.138502	1.658339	7.167499
#1	1.244223	409.4422	5.747352	181.3121	.5834088	.0089910
#2	1.214170	406.0041	5.986927	189.0900	.5652197	.0096012
#3	1.202297	419.9546	5.918614	186.5868	.5695711	.0083160

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.94205	.6473356	.8875450	19.79238	.9488453	.0065623
Stddev	.51050	.0131786	.0193479	.34731	.0082512	.0004074
%RSD	2.132251	2.035813	2.179937	1.754752	.8696066	6.208751
#1	23.69591	.6327779	.8823863	19.52956	.9425448	.0066895
#2	23.60124	.6584524	.8712994	19.66145	.9458060	.0068911
#3	24.52899	.6507764	.9089495	20.18612	.9581851	.0061065

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-01 Acquired: 11/14/2024 16:45:36 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065072	6.907054	F 14.08008	F 12.12489	4.650621	.1885937
Stddev	.0009245	.126341	.27043	.18933	.061411	.0035941
%RSD	14.20786	1.829155	1.920656	1.561527	1.320497	1.905738
#1	.0074595	6.773874	13.90500	12.33733	4.719970	.1853478
#2	.0064489	7.025212	13.94370	11.97397	4.603122	.1924562
#3	.0056132	6.922075	14.39155	12.06336	4.628773	.1879771

Elem	Sr4077
Units	ppm
Avg	.4826356
Stddev	.0178095
%RSD	3.690051
#1	.4665726
#2	.5017875
#3	.4795467

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2635.375	61136.61	14569.10	1821.622	3323.855
Stddev	27.382	1016.01	199.77	31.791	49.552
%RSD	1.039009	1.661874	1.371194	1.745190	1.490794
#1	2603.852	61445.91	14765.53	1828.646	3267.370
#2	2653.252	61962.04	14366.15	1849.313	3360.004
#3	2649.021	60001.90	14575.61	1786.906	3344.189

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02 Acquired: 11/14/2024 16:50:12 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0494740	.0084793	.2717059	-.035526	.0018549	74.34109
Stddev	.0028822	.0021258	.0034710	.001149	.0019116	1.39439
%RSD	5.825745	25.07075	1.277486	3.235324	103.0536	1.875667
#1	.0463456	.0079218	.2734326	-.036665	.0009014	74.17666
#2	.0500549	.0108284	.2739749	-.035546	.0006077	75.81041
#3	.0520215	.0066878	.2677102	-.034367	.0040557	73.03621

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5435837	.0090907	.0121780	13.38848	.1908561	.0726203
Stddev	.0104277	.0000868	.0007115	.21086	.0009941	.0007831
%RSD	1.918315	.9549254	5.842465	1.574906	.5208508	1.078340
#1	.5413710	.0090969	.0129239	13.34742	.1917092	.0730385
#2	.5549401	.0091741	.0121033	13.61685	.1910947	.0731056
#3	.5344400	.0090009	.0115068	13.20117	.1897645	.0717169

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1955810	228.6678	2.378164	26.46294	.1527327	.0066234
Stddev	.0052444	1.7256	.043031	.37314	.0018896	.0006914
%RSD	2.681464	.7546307	1.809401	1.410041	1.237216	10.43891
#1	.2011183	226.8829	2.361148	26.35263	.1543417	.0058685
#2	.1949357	230.3273	2.427101	26.87880	.1532045	.0067760
#3	.1906891	228.7931	2.346243	26.15739	.1506518	.0072258

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3954442	.2180486	1.085239	8.744094	.0714692	.0051876
Stddev	.0115088	.0030767	.008554	.080961	.0028181	.0002294
%RSD	2.910356	1.411008	.7881815	.9258933	3.943096	4.421607
#1	.3878369	.2166827	1.090219	8.699323	.0693851	.0051668
#2	.4086845	.2215718	1.090136	8.837552	.0703470	.0054267
#3	.3898112	.2158914	1.075362	8.695405	.0746756	.0049694

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02 Acquired: 11/14/2024 16:50:12 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166804	1.646543	F 14.30178	5.476517	.1461564	.1541377
Stddev	.0010217	.030694	.09781	.063290	.0051391	.0037405
%RSD	6.125033	1.864158	.6839204	1.155670	3.516185	2.426694
#1	.0177933	1.639503	14.22381	5.532115	.1513276	.1540287
#2	.0164630	1.680145	14.41153	5.489796	.1460917	.1579315
#3	.0157850	1.619980	14.26999	5.407641	.1410500	.1504530

Elem	Sr4077
Units	ppm
Avg	-.129968
Stddev	.001786
%RSD	1.373950
#1	-.128379
#2	-.129625
#3	-.131901

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2606.651	59838.05	13287.66	1805.074	4005.684
Stddev	31.458	204.99	211.11	5.701	48.824
%RSD	1.206841	.3425666	1.588776	.3158260	1.218879
#1	2579.442	59837.91	13272.18	1811.195	3964.964
#2	2599.414	59633.13	13084.71	1799.915	3992.276
#3	2641.097	60043.10	13506.08	1804.113	4059.811

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02DUP Acquired: 11/14/2024 16:54:18 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0509272	.0085370	.2672797	-.037322	.0021832	72.11731
Stddev	.0008868	.0025397	.0022824	.000370	.0008526	.19170
%RSD	1.741386	29.74966	.8539512	.9921498	39.05378	.2658117
#1	.0512665	.0114504	.2672837	-.037715	.0018241	72.15134
#2	.0499209	.0067900	.2649953	-.036980	.0031566	71.91087
#3	.0515944	.0073706	.2695601	-.037271	.0015689	72.28971

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5301782	.0087951	.0125479	13.34231	.1868270	.0722465
Stddev	.0004735	.0000619	.0009069	.05485	.0040470	.0003922
%RSD	.0893111	.7037915	7.227478	.4110641	2.166176	.5428096
#1	.5296514	.0087236	.0135898	13.28746	.1822333	.0726967
#2	.5305685	.0088303	.0119360	13.39715	.1898665	.0720628
#3	.5303146	.0088314	.0121178	13.34231	.1883812	.0719798

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1963505	227.2628	2.310433	25.58280	.1521447	.0068413
Stddev	.0066960	5.3729	.011460	.08261	.0011362	.0003256
%RSD	3.410244	2.364174	.4960121	.3229042	.7467836	4.758869
#1	.2039533	221.0594	2.297964	25.48947	.1533197	.0065468
#2	.1913305	230.4425	2.320505	25.61240	.1510518	.0067862
#3	.1937677	230.2866	2.312829	25.64653	.1520627	.0071909

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4597811	.2112235	1.085400	8.771163	.0780181	.0047139
Stddev	.0360508	.0007420	.023414	.187541	.0058816	.0001041
%RSD	7.840859	.3512697	2.157174	2.138153	7.538725	2.208913
#1	.4212471	.2114854	1.058378	8.556231	.0712710	.0047649
#2	.4654096	.2103861	1.099653	8.855717	.0820628	.0047827
#3	.4926866	.2117990	1.098169	8.901540	.0807205	.0045941

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02DUP Acquired: 11/14/2024 16:54:18 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173143	1.605703	F 14.37904	5.435653	.1612900	.1499716
Stddev	.0010227	.003254	.28525	.026358	.0060873	.0002795
%RSD	5.906441	.2026564	1.983787	.4849082	3.774106	.1863398
#1	.0174149	1.601961	14.05134	5.466068	.1654194	.1497765
#2	.0162451	1.607282	14.51410	5.421402	.1641514	.1498466
#3	.0182830	1.607867	14.57167	5.419488	.1542993	.1502918

Elem	Sr4077
Units	ppm
Avg	-.130841
Stddev	.005306
%RSD	4.055221
#1	-.124719
#2	-.134111
#3	-.133693

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2606.467	60265.00	13706.01	1839.901	4011.269
Stddev	22.160	1126.41	18.94	39.755	25.802
%RSD	.8502046	1.869087	.1382199	2.160713	.6432342
#1	2586.974	61560.73	13703.32	1885.418	3984.412
#2	2630.569	59519.19	13688.55	1811.983	4035.867
#3	2601.857	59715.07	13726.15	1822.302	4013.527

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02LX5 Acquired: 11/14/2024 16:58:23 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066731	.0000800	.0567157	-.008082	.0003020	15.29930	.1122402
Stddev	.0028239	.0012641	.0016501	.002573	.0004744	.05381	.0000931
%RSD	42.31792	1579.969	2.909400	31.83155	157.0729	.3517205	.0829439
#1	.0096618	-.001059	.0580294	-.007001	.0008327	15.36060	.1122642
#2	.0040494	.001440	.0548637	-.011018	.0001543	15.25983	.1121375
#3	.0063081	-.000141	.0572542	-.006226	-.000081	15.27748	.1123189

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020068	.0019345	2.878390	.0397412	.0148787	.0442656	47.88936
Stddev	.0000401	.0000789	.025888	.0004279	.0000558	.0006714	.24682
%RSD	1.996445	4.080055	.8994047	1.076640	.3753336	1.516669	.5153963
#1	.0019830	.0019349	2.891317	.0400961	.0149341	.0448532	47.79658
#2	.0019843	.0018553	2.848584	.0398614	.0148796	.0435339	48.16913
#3	.0020530	.0020131	2.895269	.0392661	.0148224	.0444098	47.70238

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5100163	5.511209	.0314494	.0010759	-.037591	.0448439	.2348905
Stddev	.0010649	.017201	.0003691	.0001071	.005588	.0015023	.0031123
%RSD	.2087891	.3121043	1.173624	9.951733	14.86558	3.350074	1.325009
#1	.5100121	5.531066	.0316652	.0010814	-.044010	.0437451	.2374677
#2	.5089535	5.501630	.0310232	.0011802	-.033809	.0465558	.2357709
#3	.5110832	5.500930	.0316598	.0009662	-.034955	.0442308	.2314328

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.735109	.0139225	.0006703	.0124080	.3461724	2.950434	1.100990
Stddev	.012300	.0002902	.0000810	.0001207	.0007170	.022750	.008299
%RSD	.7089074	2.084451	12.08384	.9723193	.2071088	.7710758	.7537926
#1	1.748210	.0135883	.0007555	.0125404	.3454795	2.961057	1.093084
#2	1.733311	.0140694	.0006612	.0123043	.3461265	2.965929	1.100251
#3	1.723807	.0141100	.0005942	.0123793	.3469112	2.924315	1.109633

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02LX5 Acquired: 11/14/2024 16:58:23 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0325265	.0313187	-.027225
Stddev	.0024356	.0003573	.000286
%RSD	7.488008	1.140751	1.049983
#1	.0333237	.0314926	-.027048
#2	.0297922	.0315557	-.027555
#3	.0344636	.0309078	-.027073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2680.949	60921.74	13218.12	1872.884	4384.856
Stddev	11.750	375.66	41.23	15.641	17.626
%RSD	.4382871	.6166295	.3118867	.8351087	.4019657
#1	2667.427	60723.90	13192.26	1865.315	4364.693
#2	2686.733	60686.34	13265.66	1862.468	4397.337
#3	2688.685	61354.97	13196.44	1890.869	4392.537

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02MS Acquired: 11/14/2024 17:02:36 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7503537	1.709886	1.134773	1.592864	.6867538	74.07293
Stddev	.0074715	.016149	.006718	.004989	.0047681	.65480
%RSD	.9957270	.9444747	.5919906	.3132113	.6943003	.8839904
#1	.7421706	1.721336	1.127035	1.587555	.6812820	74.58979
#2	.7568118	1.716907	1.138175	1.597456	.6889607	73.33658
#3	.7520787	1.691414	1.139109	1.593581	.6900186	74.29240

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7219186	.1863331	.1912202	14.19433	.5360188	.2559824
Stddev	.0069624	.0016889	.0013555	.14279	.0020309	.0020134
%RSD	.9644272	.9063606	.7088653	1.005937	.3788843	.7865269
#1	.7291841	.1876867	.1897068	14.28911	.5374490	.2537148
#2	.7153053	.1844406	.1916311	14.03011	.5336942	.2566725
#3	.7212664	.1868721	.1923227	14.26379	.5369131	.2575600

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4502441	220.1807	2.522436	27.66979	.6065100	.0724656
Stddev	.0069998	1.1716	.024391	.25472	.0043742	.0002659
%RSD	1.554661	.5321025	.9669640	.9205860	.7212000	.3669393
#1	.4422434	221.4287	2.543687	27.77398	.6016502	.0727651
#2	.4532507	219.1046	2.495804	27.37948	.6077483	.0722573
#3	.4552384	220.0087	2.527818	27.85590	.6101315	.0723743

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.063122	.4883768	1.204588	17.08850	.3081942	.3759701
Stddev	.023638	.0049237	.006811	.14067	.0027674	.0011616
%RSD	.7716981	1.008184	.5654151	.8232092	.8979345	.3089568
#1	3.090187	.4920479	1.212387	17.25022	.3112377	.3746321
#2	3.052649	.4827815	1.201560	17.02074	.3058292	.3765583
#3	3.046529	.4903009	1.199815	16.99452	.3075155	.3767199

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02MS Acquired: 11/14/2024 17:02:36 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6439327	1.804121	F 14.62386	F 10.76627	.1391940	.3414241
Stddev	.0040299	.015318	.08749	.04767	.0011669	.0032765
%RSD	.6258292	.8490290	.5982997	.4427794	.8383111	.9596560
#1	.6393539	1.820310	14.69704	10.71124	.1379055	.3448137
#2	.6455036	1.789856	14.52695	10.79282	.1401794	.3382738
#3	.6469405	1.802198	14.64759	10.79476	.1394971	.3411850

Elem	Sr4077
Units	ppm
Avg	.0693784
Stddev	.0015671
%RSD	2.258717
#1	.0709702
#2	.0678373
#3	.0693276

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2685.485	62135.46	13299.37	1895.873	4086.845
Stddev	12.218	394.86	122.51	23.298	18.760
%RSD	.4549804	.6354861	.9211364	1.228865	.4590336
#1	2699.450	61679.53	13176.18	1870.046	4108.145
#2	2680.237	62366.27	13421.18	1902.270	4079.612
#3	2676.767	62360.59	13300.76	1915.305	4072.778

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02MSD Acquired: 11/14/2024 17:06:34 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7409566	1.677503	1.112079	1.583125	.6759040	73.79692
Stddev	.0133875	.044816	.019898	.032745	.0129387	1.76290
%RSD	1.806790	2.671616	1.789230	2.068393	1.914275	2.388852
#1	.7563420	1.714819	1.135051	1.620696	.6906467	75.22090
#2	.7345643	1.627794	1.100238	1.560659	.6706294	74.34469
#3	.7319634	1.689896	1.100949	1.568020	.6664358	71.82516

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7161386	.1858010	.1879048	13.91930	.5445918	.2507995
Stddev	.0187226	.0040703	.0043447	.26665	.0067623	.0051376
%RSD	2.614376	2.190654	2.312161	1.915699	1.241721	2.048509
#1	.7292458	.1888505	.1929202	14.10792	.5367885	.2567276
#2	.7244740	.1873734	.1854972	14.03574	.5487383	.2480337
#3	.6946959	.1811791	.1852970	13.61423	.5482486	.2476374

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4374180	220.9682	2.487897	27.35035	.5957452	.0733894
Stddev	.0135273	2.1199	.059347	.49358	.0111215	.0008247
%RSD	3.092541	.9593644	2.385417	1.804640	1.866816	1.123724
#1	.4530221	218.6003	2.531158	27.70749	.6085703	.0725021
#2	.4302250	222.6895	2.512292	27.55643	.5899035	.0735336
#3	.4290067	221.6148	2.420240	26.78713	.5887620	.0741325

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.113749	.4845254	1.212620	17.40718	.3107956	.3695091
Stddev	.026594	.0072250	.010820	.13833	.0019425	.0073087
%RSD	.8540856	1.491141	.8923178	.7946935	.6250041	1.977953
#1	3.097776	.4911079	1.200553	17.26574	.3094857	.3779182
#2	3.144449	.4856729	1.221459	17.54218	.3130274	.3646853
#3	3.099024	.4767954	1.215847	17.41361	.3098738	.3659239

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02MSD Acquired: 11/14/2024 17:06:34 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6289180	1.822514	F 15.61616	F 10.50533	.1319256	.3390407
Stddev	.0108676	.051573	.07401	.22382	.0073734	.0093249
%RSD	1.727982	2.829773	.4739060	2.130567	5.589036	2.750364
#1	.6414269	1.870169	15.53119	10.76023	.1404169	.3464068
#2	.6217972	1.829613	15.66653	10.34090	.1282188	.3421589
#3	.6235300	1.767759	15.65076	10.41486	.1271412	.3285563

Elem	Sr4077
Units	ppm
Avg	.0668761
Stddev	.0085353
%RSD	12.76284
#1	.0748600
#2	.0678885
#3	.0578798

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2710.850	61681.20	13459.63	1875.970	4146.997
Stddev	50.885	526.25	307.26	15.131	80.195
%RSD	1.877087	.8531784	2.282814	.8065817	1.933805
#1	2652.512	62273.54	13225.61	1891.707	4054.637
#2	2733.956	61267.61	13345.69	1861.527	4187.402
#3	2746.082	61502.45	13807.58	1874.675	4198.953

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02A Acquired: 11/14/2024 17:10:32 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7624924	1.751069	1.138119	1.639644	.6955641	72.81348
Stddev	.0024880	.012895	.006063	.004632	.0024764	1.37829
%RSD	.3263007	.7363817	.5327269	.2824862	.3560270	1.892899
#1	.7602254	1.765953	1.131490	1.634296	.6931366	71.64330
#2	.7620974	1.743269	1.143384	1.642282	.6980867	72.46440
#3	.7651542	1.743986	1.139482	1.642354	.6954691	74.33274

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6846933	.1789446	.1937202	13.65308	.5471232	.2575020
Stddev	.0122842	.0030745	.0007620	.32429	.0010352	.0012375
%RSD	1.794120	1.718122	.3933291	2.375237	.1892052	.4805626
#1	.6748690	.1762666	.1932162	13.36488	.5459545	.2561385
#2	.6807446	.1782653	.1945968	13.59013	.5479248	.2585539
#3	.6984662	.1823019	.1933477	14.00424	.5474904	.2578136

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4576053	219.3329	2.377030	26.86213	.6118587	.0722747
Stddev	.0027354	1.2654	.054830	.71437	.0034786	.0004554
%RSD	.5977699	.5769190	2.306672	2.659409	.5685285	.6301425
#1	.4557868	218.0736	2.330295	26.28662	.6086871	.0718197
#2	.4607512	219.3208	2.363407	26.63812	.6155791	.0722738
#3	.4562780	220.6043	2.437387	27.66167	.6113099	.0727305

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.050542	.4698186	1.224109	17.47606	.3023249	.3814567
Stddev	.006867	.0100921	.005144	.05134	.0027983	.0012601
%RSD	.2250917	2.148076	.4202368	.2937802	.9255765	.3303259
#1	3.045459	.4595620	1.222761	17.42355	.3002706	.3800903
#2	3.058354	.4701561	1.229793	17.47848	.3011921	.3825727
#3	3.047815	.4797377	1.219773	17.52615	.3055119	.3817073

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-02A Acquired: 11/14/2024 17:10:32 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6472952	1.775624	F 16.41802	F 10.82925	.1436771	.3257351
Stddev	.0028301	.031697	.07764	.05581	.0010464	.0055943
%RSD	.4372182	1.785105	.4729144	.5153519	.7282907	1.717423
#1	.6450154	1.749805	16.33678	10.87072	.1446443	.3213260
#2	.6504627	1.766068	16.42579	10.85123	.1438207	.3238511
#3	.6464074	1.810999	16.49149	10.76580	.1425664	.3320281

Elem	Sr4077
Units	ppm
Avg	.0563886
Stddev	.0039815
%RSD	7.060896
#1	.0534685
#2	.0547733
#3	.0609240

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2603.425	61000.62	13795.89	1819.365	3994.725
Stddev	17.856	184.14	227.37	8.550	26.437
%RSD	.6858743	.3018679	1.648105	.4699708	.6617951
#1	2622.402	60993.26	14000.20	1820.735	4022.666
#2	2586.954	60820.28	13836.53	1810.212	3970.106
#3	2600.920	61188.34	13550.94	1827.148	3991.402

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-03 Acquired: 11/14/2024 17:14:30 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0563244	-.002053	.2971814	-.053924	-.000569	210.8176
Stddev	.0017736	.001609	.0029679	.001202	.001084	1.3294
%RSD	3.148938	78.35894	.9986754	2.228212	190.4867	.6306053
#1	.0547627	-.001211	.2964637	-.053453	.000435	209.4765
#2	.0582527	-.001040	.2946382	-.055290	-.000424	212.1350
#3	.0559580	-.003908	.3004423	-.053030	-.001719	210.8414

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7900744	.0096600	.0240416	168.8986	.4763419	.1442504
Stddev	.0014846	.0000897	.0003401	.9976	.0021192	.0009618
%RSD	.1878998	.9288597	1.414758	.5906632	.4448923	.6667876
#1	.7899468	.0095637	.0244181	167.8783	.4782184	.1446483
#2	.7916187	.0096748	.0237565	169.8718	.4740435	.1431535
#3	.7886579	.0097413	.0239502	168.9458	.4767638	.1449495

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4786257	293.2932	3.941912	91.54587	.3549377	.0083356
Stddev	.0034629	.6863	.021780	.53736	.0026569	.0005502
%RSD	.7235196	.2339959	.5525162	.5869877	.7485654	6.601197
#1	.4812954	292.5048	3.922363	90.94816	.3561666	.0077096
#2	.4747127	293.6178	3.965388	91.98901	.3518887	.0085543
#3	.4798690	293.7570	3.937985	91.70044	.3567577	.0087428

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.069398	.4387093	.9476995	17.72351	.3031947	.0193899
Stddev	.019726	.0014110	.0044725	.07662	.0015118	.0001926
%RSD	.2444491	.3216167	.4719304	.4322895	.4986274	.9931612
#1	8.092001	.4371318	.9528125	17.80532	.3014542	.0191903
#2	8.060535	.4398509	.9445138	17.65344	.3041816	.0194047
#3	8.055659	.4391451	.9457721	17.71176	.3039483	.0195746

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-03 Acquired: 11/14/2024 17:14:30 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130421	5.022212	F 15.49862	6.021373	2.148459	.2318241
Stddev	.0001064	.015923	.02858	.052385	.009104	.0005473
%RSD	.8160224	.3170451	.1844033	.8699863	.4237556	.2360938
#1	.0130983	5.010659	15.46615	6.021235	2.153536	.2324176
#2	.0129193	5.040375	15.50975	5.969057	2.137949	.2317155
#3	.0131086	5.015603	15.51996	6.073827	2.153893	.2313393

Elem	Sr4077
Units	ppm
Avg	.4972648
Stddev	.0004821
%RSD	.0969423
#1	.4967732
#2	.4972844
#3	.4977368

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2567.375	59460.46	13923.21	1763.466	3662.625
Stddev	12.211	142.92	38.48	12.605	20.274
%RSD	.4756045	.2403647	.2763926	.7148018	.5535420
#1	2553.685	59295.87	13927.40	1750.165	3645.158
#2	2577.139	59553.10	13882.81	1764.999	3684.857
#3	2571.303	59532.43	13959.43	1775.235	3657.859

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-04 Acquired: 11/14/2024 17:18:53 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0858161	.0108464	.1653971	-.061416	.0032983	144.8747
Stddev	.0032171	.0022891	.0019875	.000206	.0021815	.2381
%RSD	3.748874	21.10501	1.201672	.3351607	66.13858	.1643355
#1	.0826447	.0092904	.1676216	-.061179	.0014328	145.1031
#2	.0857265	.0097739	.1647741	-.061534	.0056969	144.6280
#3	.0890771	.0134748	.1637958	-.061537	.0027653	144.8931

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5208862	.0126032	.0267717	12.36662	.2124105	.1642096
Stddev	.0016441	.0000809	.0012250	.03413	.0012376	.0013014
%RSD	.3156291	.6420708	4.575733	.2759706	.5826237	.7925281
#1	.5217161	.0126553	.0280374	12.32765	.2137778	.1656379
#2	.5189926	.0125100	.0266858	12.39120	.2120868	.1638999
#3	.5219500	.0126444	.0255919	12.38100	.2113670	.1630910

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2693580	331.7000	8.966606	62.60205	.3127822	.0073096
Stddev	.0079813	3.8030	.040102	.24958	.0024318	.0010718
%RSD	2.963087	1.146530	.4472353	.3986722	.7774783	14.66289
#1	.2780682	327.6350	8.920369	62.31501	.3154354	.0060909
#2	.2676106	332.2937	8.987537	62.76775	.3122519	.0077326
#3	.2623951	335.1713	8.991912	62.72340	.3106593	.0081054

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.058941	.2774491	.7926809	11.61910	.0689768	.0040217
Stddev	.036224	.0005379	.0037845	.03981	.0065049	.0001060
%RSD	3.420732	.1938789	.4774319	.3425872	9.430586	2.634971
#1	1.027326	.2780668	.7961295	11.57383	.0615522	.0040346
#2	1.051030	.2770834	.7932810	11.64864	.0717036	.0041206
#3	1.098466	.2771972	.7886322	11.63482	.0736745	.0039098

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-04 Acquired: 11/14/2024 17:18:53 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109310	2.260247	F 10.23180	5.132279	.0847467	.3362046
Stddev	.0003654	.002427	.08695	.033940	.0010624	.0013739
%RSD	3.342771	.1073841	.8497735	.6613128	1.253629	.4086509
#1	.0108940	2.260546	10.13162	5.166070	.0843429	.3372044
#2	.0113135	2.257683	10.27610	5.132577	.0859518	.3346380
#3	.0105855	2.262510	10.28766	5.098191	.0839454	.3367716

Elem	Sr4077
Units	ppm
Avg	-.238569
Stddev	.003816
%RSD	1.599721
#1	-.234396
#2	-.239429
#3	-.241881

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2882.372	65539.12	14412.06	2008.698	3980.261
Stddev	28.258	215.35	114.76	3.778	37.109
%RSD	.9803793	.3285866	.7962647	.1881052	.9323276
#1	2856.582	65508.26	14286.95	2004.478	3946.423
#2	2877.958	65340.87	14436.79	2009.848	3974.414
#3	2912.578	65768.24	14512.43	2011.767	4019.947

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV04 Acquired: 11/14/2024 17:23:07 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.725482	4.924895	4.770997	4.712743	4.716513	9.510084	9.468745
Stddev	.021100	.071855	.011769	.019465	.020857	.058940	.081584
%RSD	.4465079	1.459009	.2466795	.4130268	.4422131	.6197612	.8616103
#1	4.701304	4.849313	4.760941	4.692177	4.693263	9.510734	9.406936
#2	4.734963	4.933046	4.768108	4.715172	4.733577	9.450822	9.438082
#3	4.740177	4.992327	4.783942	4.730879	4.722699	9.568696	9.561218

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2430715	2.383852	23.93048	.9623803	2.377246	1.193049	4.723325
Stddev	.0014357	.005241	.18683	.0020494	.005917	.003182	.027978
%RSD	.5906551	.2198638	.7807074	.2129535	.2488821	.2666763	.5923436
#1	.2431167	2.380267	23.83254	.9612268	2.372488	1.189474	4.692563
#2	.2416137	2.381422	23.81299	.9611675	2.375379	1.195572	4.730159
#3	.2444841	2.389867	24.14592	.9647465	2.383871	1.194100	4.747254

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.365125	23.72122	2.385512	1.192478	23.47773	2.381391	2.411103
Stddev	.017975	.19578	.005078	.000939	.03849	.010813	.000751
%RSD	.7600030	.8253501	.2128482	.0787546	.1639245	.4540810	.0311440
#1	2.355530	23.65580	2.381551	1.191604	23.45088	2.375710	2.411601
#2	2.353983	23.56652	2.383748	1.192358	23.52182	2.374602	2.410240
#3	2.385861	23.94134	2.391236	1.193471	23.46047	2.393861	2.411470

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.17893	4.813585	4.800355	4.783417	4.701501	4.710563	4.923967
Stddev	.07107	.026188	.018050	.014425	.027917	.023471	.033282
%RSD	.3065967	.5440490	.3760053	.3015640	.5937985	.4982531	.6759240
#1	23.10302	4.816301	4.779534	4.770380	4.689305	4.688101	4.894617
#2	23.24387	4.786145	4.811581	4.780958	4.681757	4.734927	4.917157
#3	23.18992	4.838310	4.809950	4.798914	4.733442	4.708661	4.960128

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV04 Acquired: 11/14/2024 17:23:07 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.636372	4.658728	4.789001
Stddev	.013379	.020382	.033915
%RSD	.2885719	.4375116	.7081769
#1	4.629812	4.650937	4.791458
#2	4.651765	4.643390	4.753924
#3	4.627539	4.681857	4.821620

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2658.631	60456.39	13318.02	1876.603	4188.213
Stddev	13.441	53.12	66.90	4.602	17.676
%RSD	.5055639	.0878620	.5022909	.2452064	.4220371
#1	2673.375	60400.89	13299.94	1881.403	4208.557
#2	2647.060	60461.53	13392.10	1876.175	4179.463
#3	2655.458	60506.75	13262.02	1872.230	4176.619

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB04 Acquired: 11/14/2024 17:27:18 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000167	-.001051	-.000235	-.000929	-.000225	.0020903	.0000440
Stddev	.001152	.000300	.000624	.000432	.000208	.0034646	.0001206
%RSD	689.5420	28.53342	266.0191	46.54042	92.28238	165.7476	273.8467
#1	.000744	-.000711	.000472	-.001089	.000013	.0005654	.0001282
#2	-.001463	-.001277	-.000710	-.000439	-.000323	.0060557	-.000094
#3	.000217	-.001164	-.000466	-.001257	-.000366	-.000350	.000098

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000059	-.000079	.0125116	.0001238	.0001022	-.000179	.0049873
Stddev	.0000212	.000080	.0062278	.0001308	.0000403	.000125	.0041061
%RSD	360.8000	100.3860	49.77630	105.6139	39.49437	69.92195	82.33099
#1	.0000073	-.000125	.0142323	-.000005	.0001053	-.000035	.0033645
#2	.0000263	.000013	.0176982	.000121	.0001409	-.000239	.0096567
#3	-.000016	-.000125	.0056044	.000256	.0000604	-.000263	.0019406

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000085	-.001854	.0003032	-.000361	-.186782	-.000405	.0006986
Stddev	.000119	.016626	.0001291	.000154	.011872	.000689	.0000886
%RSD	139.6187	896.6380	42.58062	42.60160	6.356011	170.0327	12.68820
#1	-.000221	-.016045	.0004373	-.000505	-.199944	-.000234	.0006255
#2	.000002	.016439	.0001798	-.000381	-.176882	-.001164	.0006731
#3	-.000036	-.005956	.0002923	-.000199	-.183520	.000182	.0007972

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.047628	.0049649	-.000003	.0030313	.0001903	.0091471	.0003232
Stddev	.013313	.0004809	.000295	.0008679	.0000512	.0005731	.0016674
%RSD	27.95216	9.685464	11491.62	28.62949	26.93140	6.265606	515.9662
#1	-.053875	.0050473	.000238	.0024976	.0002279	.0086668	-.000097
#2	-.056669	.0044481	.000086	.0025637	.0002110	.0097815	-.001094
#3	-.032340	.0053992	-.000332	.0040327	.0001319	.0089929	.002161

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB04 Acquired: 11/14/2024 17:27:18 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000226	.0000221	.0000087
Stddev	.004516	.0005776	.0000494
%RSD	1998.776	2611.366	569.1558
#1	.001634	-.000292	-.000023
#2	.003063	-.000330	.000066
#3	-.005375	.000689	-.000016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2724.893	61774.81	13197.58	1930.104	4690.011
Stddev	20.846	141.80	114.94	5.386	30.335
%RSD	.7650364	.2295398	.8709454	.2790735	.6468051
#1	2747.696	61613.40	13303.66	1924.710	4723.068
#2	2720.168	61879.35	13213.63	1935.483	4683.516
#3	2706.815	61831.67	13075.46	1930.119	4663.449

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-05 Acquired: 11/14/2024 17:31:38 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093529	-.001520	.1407731	-.039132	-.001654	214.3552
Stddev	.0004860	.002824	.0005744	.001672	.001240	1.8594
%RSD	5.196228	185.7588	.4080020	4.273447	74.98168	.8674507
#1	.0096617	.001189	.1414177	-.038401	-.002761	215.5606
#2	.0096042	-.001304	.1403158	-.037949	-.000314	215.2913
#3	.0087927	-.004446	.1405857	-.041045	-.001886	212.2138

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.282261	.0097378	.0208393	7.899765	.3175857	.1359981
Stddev	.006987	.0000567	.0002867	.009416	.0017681	.0007445
%RSD	.5448757	.5827543	1.375930	.1191891	.5567343	.5474725
#1	1.289436	.0097664	.0208711	7.907729	.3159375	.1355631
#2	1.281866	.0097746	.0205379	7.889373	.3173665	.1355735
#3	1.275479	.0096725	.0211087	7.902194	.3194533	.1368579

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2464021	239.2534	2.862572	57.91627	.3931491	.0070978
Stddev	.0013804	.9018	.011544	.21102	.0013058	.0001746
%RSD	.5602222	.3769080	.4032913	.3643459	.3321299	2.459407
#1	.2462969	238.3571	2.865989	57.67734	.3926727	.0069827
#2	.2450773	239.2425	2.872021	58.07711	.3921484	.0072987
#3	.2478321	240.1606	2.849704	57.99436	.3946262	.0070120

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.118553	.2971922	.8532625	16.57812	.0804727	.0043534
Stddev	.019719	.0006121	.0024859	.04709	.0016376	.0002716
%RSD	.2770055	.2059744	.2913462	.2840581	2.034954	6.239285
#1	7.140372	.2965151	.8503971	16.54810	.0795875	.0040525
#2	7.102006	.2977065	.8545464	16.55387	.0794682	.0044273
#3	7.113281	.2973552	.8548440	16.63239	.0823623	.0045805

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-05 Acquired: 11/14/2024 17:31:38 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084924	4.283621	F 18.96610	2.628127	.1661539	.3023060
Stddev	.0007845	.013509	.11406	.027829	.0023881	.0009389
%RSD	9.237669	.3153524	.6013745	1.058880	1.437312	.3105778
#1	.0081663	4.292947	18.84054	2.613359	.1639365	.3033597
#2	.0079235	4.289786	18.99446	2.610796	.1686823	.3019999
#3	.0093874	4.268130	19.06330	2.660227	.1658427	.3015583

Elem	Sr4077
Units	ppm
Avg	-.153845
Stddev	.001245
%RSD	.8090263
#1	-.152642
#2	-.153767
#3	-.155127

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2864.205	66427.65	15225.25	2012.782	3820.336
Stddev	10.051	112.71	80.83	8.255	12.543
%RSD	.3509274	.1696765	.5308622	.4101453	.3283292
#1	2864.063	66540.10	15178.12	2022.186	3816.917
#2	2874.326	66428.17	15179.05	2006.727	3834.235
#3	2854.225	66314.67	15318.58	2009.434	3809.857

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-06 Acquired: 11/14/2024 17:35:53 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0845223	.0057796	1.482908	-.041344	.0062128	93.63191
Stddev	.0041353	.0021984	.009047	.000700	.0004803	.31365
%RSD	4.892536	38.03622	.6100958	1.694261	7.730382	.3349793
#1	.0828802	.0067025	1.479476	-.040570	.0056805	93.84611
#2	.0814603	.0073661	1.476079	-.041935	.0066136	93.77773
#3	.0892264	.0032703	1.493169	-.041527	.0063443	93.27190

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.686244	.0075098	.0179278	37.32284	.2462803	.1144552
Stddev	.011935	.0001157	.0003147	.06590	.0021058	.0005812
%RSD	.7077819	1.541243	1.755367	.1765807	.8550326	.5077947
#1	1.692647	.0076268	.0176367	37.27119	.2474994	.1146520
#2	1.693610	.0075071	.0178851	37.39707	.2438488	.1138012
#3	1.672474	.0073954	.0182618	37.30026	.2474928	.1149125

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6260148	230.8601	5.750173	43.09163	.2242517	.0067451
Stddev	.0028861	1.6518	.014431	.13774	.0004394	.0003278
%RSD	.4610318	.7154948	.2509606	.3196411	.1959631	4.860425
#1	.6235228	231.1098	5.744170	42.96425	.2237633	.0063743
#2	.6253444	229.0977	5.766636	43.07283	.2243767	.0068642
#3	.6291771	232.3728	5.739712	43.23780	.2246151	.0069967

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.956055	.2476166	2.137308	9.308548	.1111052	.0367640
Stddev	.013675	.0020674	.020578	.052538	.0007954	.0005902
%RSD	.3456785	.8349304	.9627816	.5644060	.7158906	1.605424
#1	3.970471	.2453268	2.140145	9.364076	.1115000	.0362951
#2	3.943266	.2481769	2.115459	9.259624	.1101897	.0365700
#3	3.954427	.2493461	2.156320	9.301944	.1116260	.0374268

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-06 Acquired: 11/14/2024 17:35:53 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1489413	1.188938	F 16.90743	5.612723	1.516674	.2056835
Stddev	.0008369	.005156	.12918	.041866	.010457	.0018871
%RSD	.5619228	.4336548	.7640151	.7459077	.6894637	.9174639
#1	.1482140	1.191900	16.95659	5.566796	1.505159	.2060479
#2	.1487538	1.191929	16.76089	5.622619	1.519286	.2073618
#3	.1498561	1.182984	17.00480	5.648754	1.525577	.2036408

Elem	Sr4077
Units	ppm
Avg	.0613746
Stddev	.0032420
%RSD	5.282366
#1	.0622643
#2	.0640790
#3	.0577807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2765.369	63463.30	14533.19	1901.556	4020.636
Stddev	13.227	598.55	35.27	20.172	18.856
%RSD	.4783098	.9431495	.2426953	1.060842	.4689868
#1	2765.552	63070.39	14492.55	1895.487	4020.648
#2	2778.504	64152.18	14551.28	1924.066	4039.486
#3	2752.052	63167.34	14555.76	1885.114	4001.773

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-07 Acquired: 11/14/2024 17:39:58 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0882756	.0081267	1.420229	-.043695	.0062207	104.1162
Stddev	.0044804	.0021996	.007899	.002274	.0011415	.6984
%RSD	5.075409	27.06659	.5562079	5.204266	18.35023	.6708246
#1	.0923622	.0088303	1.428546	-.042637	.0051142	104.8191
#2	.0834849	.0098885	1.419315	-.046305	.0073943	104.1071
#3	.0889796	.0056614	1.412827	-.042142	.0061536	103.4224

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.479136	.0085891	.0209996	43.74834	.2297204	.1605259
Stddev	.007386	.0000687	.0004776	.27990	.0005086	.0009951
%RSD	.4993494	.8003018	2.274227	.6398049	.2214099	.6199324
#1	1.487050	.0085511	.0212563	44.06963	.2292018	.1616142
#2	1.477933	.0086684	.0212939	43.61817	.2297409	.1603013
#3	1.472426	.0085477	.0204486	43.55724	.2302184	.1596622

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5425983	257.3978	7.076352	45.88605	.2602458	.0070800
Stddev	.0036246	.7220	.037075	.30255	.0018476	.0000901
%RSD	.6680080	.2805036	.5239330	.6593588	.7099452	1.272878
#1	.5454838	257.4295	7.118408	46.23302	.2618045	.0070066
#2	.5437810	256.6605	7.048394	45.74785	.2607279	.0071806
#3	.5385301	258.1035	7.062253	45.67727	.2582049	.0070527

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.322171	.2823258	1.828861	10.09389	.1433814	.0286579
Stddev	.010591	.0008567	.006510	.04743	.0005285	.0002844
%RSD	.3187895	.3034554	.3559715	.4698390	.3685798	.9925161
#1	3.312802	.2831472	1.834943	10.04434	.1436544	.0285665
#2	3.333662	.2823925	1.829645	10.13886	.1427723	.0289768
#3	3.320049	.2814376	1.821994	10.09846	.1437176	.0284304

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4768-07 Acquired: 11/14/2024 17:39:58 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1028491	1.392332	F 17.07452	6.689713	2.408985	.2423511
Stddev	.0007546	.010871	.00686	.038024	.015429	.0015478
%RSD	.7336589	.7807483	.0402037	.5683898	.6404706	.6386702
#1	.1034831	1.404855	17.06715	6.677428	2.414476	.2432788
#2	.1020145	1.386818	17.08072	6.732361	2.420917	.2432102
#3	.1030496	1.385324	17.07570	6.659351	2.391562	.2405643

Elem	Sr4077
Units	ppm
Avg	.1100261
Stddev	.0023033
%RSD	2.093413
#1	.1121525
#2	.1103465
#3	.1075794

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2805.156	64705.39	14687.56	1948.728	3972.837
Stddev	17.112	205.53	123.70	14.646	27.085
%RSD	.6100169	.3176426	.8422021	.7515630	.6817666
#1	2788.394	64472.70	14545.53	1931.990	3945.602
#2	2804.478	64862.16	14745.48	1955.002	3973.140
#3	2822.597	64781.32	14771.68	1959.191	3999.770

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4771-05 Acquired: 11/14/2024 17:44:04 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071065	-.004403	.0381862	-.004290	.0013674	36.21158
Stddev	.0005230	.000492	.0016756	.001782	.0010671	.27344
%RSD	7.359892	11.18261	4.387899	41.53863	78.03969	.7551053
#1	.0066963	-.004664	.0400969	-.006329	.0006387	35.89633
#2	.0076955	-.004711	.0374945	-.003033	.0025922	36.38438
#3	.0069276	-.003835	.0369673	-.003507	.0008712	36.35403

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1703436	.0018078	.0023210	13.13904	.0843756	.0083177
Stddev	.0003704	.0001036	.0000788	.07876	.0001209	.0001697
%RSD	.2174631	5.731867	3.395252	.5993976	.1432966	2.040294
#1	.1699660	.0016882	.0022337	13.05034	.0845056	.0083200
#2	.1707065	.0018674	.0023423	13.20075	.0842666	.0084862
#3	.1703582	.0018679	.0023869	13.16604	.0843546	.0081468

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0403370	53.09663	.3128740	6.797348	.0181548	.0021577
Stddev	.0005029	.08694	.0004955	.032361	.0001619	.0001142
%RSD	1.246833	.1637486	.1583817	.4760890	.8916918	5.290898
#1	.0403042	53.09933	.3123053	6.775484	.0179683	.0022318
#2	.0408556	53.00837	.3131042	6.782036	.0182584	.0022151
#3	.0398513	53.18220	.3132126	6.834524	.0182378	.0020262

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.063185	.1282932	.2367042	3.660251	.0274512	.0103140
Stddev	.012994	.0018211	.0008582	.018966	.0001293	.0001370
%RSD	20.56574	1.419442	.3625730	.5181529	.4710899	1.328171
#1	-.075528	.1265092	.2357759	3.642573	.0275987	.0104614
#2	-.064402	.1282213	.2374687	3.657894	.0273574	.0102900
#3	-.049624	.1301492	.2368680	3.680285	.0273975	.0101906

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4771-05 Acquired: 11/14/2024 17:44:04 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033541	1.528854	F 15.58978	2.174230	1.036640	.0162843
Stddev	.0004187	.007999	.02224	.010954	.013082	.0004376
%RSD	12.48347	.5232211	.1426577	.5037968	1.261941	2.687544
#1	.0029569	1.520221	15.60864	2.186839	1.040497	.0158518
#2	.0033139	1.536014	15.59544	2.167061	1.022064	.0167269
#3	.0037915	1.530329	15.56526	2.168789	1.047360	.0162743

Elem	Sr4077
Units	ppm
Avg	.0092881
Stddev	.0004904
%RSD	5.279544
#1	.0087849
#2	.0097645
#3	.0093147

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2638.259	59619.58	13449.53	1815.519	4306.430
Stddev	17.685	329.61	52.15	10.092	17.239
%RSD	.6703244	.5528512	.3877333	.5558530	.4003131
#1	2619.826	59313.51	13465.91	1806.064	4287.734
#2	2639.864	59576.71	13391.16	1814.347	4309.858
#3	2655.087	59968.53	13491.52	1826.145	4321.697

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4771-07 Acquired: 11/14/2024 17:48:17 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080098	-.007365	.0527005	-.006792	.0003803	42.31581
Stddev	.0008718	.002660	.0001332	.002676	.0007894	.06605
%RSD	10.88434	36.11304	.2527314	39.39823	207.5896	.1560856
#1	.0076414	-.005538	.0527378	-.006994	.0005591	42.38920
#2	.0073826	-.010416	.0528110	-.009361	.0010649	42.29708
#3	.0090053	-.006140	.0525526	-.004021	-.000483	42.26114

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1989703	.0019097	.0032013	61.12998	.0917717	.0160112
Stddev	.0011546	.0001065	.0001171	.18391	.0002056	.0001982
%RSD	.5802842	5.578961	3.659019	.3008574	.2239763	1.238214
#1	.2002342	.0020300	.0030800	61.20628	.0915344	.0158790
#2	.1987055	.0018717	.0033138	61.26345	.0918880	.0159154
#3	.1979711	.0018273	.0032100	60.92019	.0918927	.0162391

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0681953	56.80058	.5505309	10.71734	.0293574	.0021964
Stddev	.0015880	.09511	.0018612	.02940	.0002409	.0001299
%RSD	2.328611	.1674529	.3380812	.2742973	.8205652	5.914251
#1	.0663618	56.82711	.5508786	10.68898	.0294128	.0023210
#2	.0690921	56.69502	.5521938	10.74767	.0295657	.0020618
#3	.0691320	56.87961	.5485204	10.71537	.0290936	.0022062

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3011101	.1284339	.2171550	4.127143	.0277328	.0094151
Stddev	.0038133	.0012515	.0006205	.028475	.0002132	.0000244
%RSD	1.266405	.9744060	.2857559	.6899463	.7688124	.2588527
#1	.3048229	.1298217	.2164433	4.136290	.0277767	.0094308
#2	.2972037	.1280888	.2175827	4.095219	.0279206	.0094275
#3	.3013036	.1273912	.2174390	4.149921	.0275010	.0093870

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4771-07 Acquired: 11/14/2024 17:48:17 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025732	1.881563	F 13.66727	1.869780	1.618280	.0098847
Stddev	.0002073	.009540	.06031	.022487	.012909	.0006220
%RSD	8.054663	.5070059	.4412872	1.202637	.7976919	6.292231
#1	.0027694	1.891830	13.63438	1.843818	1.603666	.0097438
#2	.0025937	1.879884	13.63055	1.882385	1.628129	.0093453
#3	.0023564	1.872974	13.73688	1.883136	1.623045	.0105650

Elem	Sr4077
Units	ppm
Avg	.1701022
Stddev	.0010625
%RSD	.6246503
#1	.1712670
#2	.1698536
#3	.1691860

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2598.486	60313.69	13238.38	1842.503	4129.445
Stddev	22.050	19.29	57.40	14.227	32.763
%RSD	.8485620	.0319892	.4336078	.7721687	.7933976
#1	2623.914	60323.51	13208.48	1839.363	4166.678
#2	2586.881	60326.09	13202.11	1858.038	4116.635
#3	2584.662	60291.46	13304.56	1830.108	4105.023

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4821-01 Acquired: 11/14/2024 17:52:28 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0446733	-.006438	.1693706	-.044920	-.000599	107.0122
Stddev	.0014774	.001730	.0010535	.000704	.000840	.9723
%RSD	3.307134	26.86568	.6220167	1.567955	140.1956	.9085748
#1	.0435278	-.008125	.1690024	-.044380	.000175	105.8924
#2	.0463408	-.006522	.1685507	-.045717	-.001492	107.6415
#3	.0441512	-.004668	.1705588	-.044664	-.000481	107.5028

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.211630	.0127586	.0279290	36.27837	.2372590	.1775468
Stddev	.013009	.0001558	.0000772	.30609	.0006842	.0005156
%RSD	1.073674	1.221316	.2764473	.8437388	.2883812	.2904274
#1	1.196676	.0125790	.0279744	35.93487	.2365414	.1769751
#2	1.220343	.0128588	.0278398	36.52225	.2379041	.1776887
#3	1.217869	.0128379	.0279728	36.37797	.2373316	.1779767

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.229118	236.1435	10.49194	63.97912	.3615367	.0063209
Stddev	.003132	.4379	.10030	.44797	.0015672	.0001948
%RSD	.2548278	.1854369	.9559891	.7001890	.4334796	3.081218
#1	1.228351	235.6933	10.37722	63.46199	.3615193	.0060979
#2	1.226440	236.1693	10.56312	64.24861	.3599782	.0064575
#3	1.232562	236.5680	10.53546	64.22675	.3631125	.0064073

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.833876	.3163662	.6604579	19.83170	.1023378	-.000116
Stddev	.014071	.0030815	.0013622	.07266	.0005317	.000137
%RSD	.2910968	.9740312	.2062562	.3663908	.5195588	117.9534
#1	4.820030	.3128361	.6588853	19.75522	.1029138	.000039
#2	4.833436	.3177441	.6612734	19.84007	.1018658	-.000219
#3	4.848163	.3185183	.6612150	19.89982	.1022338	-.000167

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4821-01 Acquired: 11/14/2024 17:52:28 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066136	3.849322	F 10.50396	F 10.24930	.3235306	.2177177
Stddev	.0005353	.037578	.03228	.03040	.0045078	.0025208
%RSD	8.094365	.9762131	.3072834	.2965808	1.393310	1.157807
#1	.0062079	3.806272	10.47378	10.26400	.3248065	.2148354
#2	.0064125	3.875547	10.50011	10.21435	.3185224	.2195102
#3	.0072204	3.866147	10.53798	10.26956	.3272629	.2188075

Elem	Sr4077
Units	ppm
Avg	-.105326
Stddev	.000962
%RSD	.9136223
#1	-.106407
#2	-.104563
#3	-.105008

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3177.182	73634.58	16825.00	2250.490	3775.923
Stddev	5.593	218.04	77.73	5.646	8.845
%RSD	.1760422	.2961119	.4619754	.2508595	.2342443
#1	3179.219	73383.98	16902.48	2244.969	3779.398
#2	3181.471	73780.90	16747.03	2250.250	3782.503
#3	3170.856	73738.86	16825.48	2256.253	3765.868

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4821-05 Acquired: 11/14/2024 17:56:32 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0556148	-.016809	.3601646	-.039406	-.001889	106.5102
Stddev	.0029368	.002324	.0033132	.000246	.000195	1.4504
%RSD	5.280683	13.82389	.9199166	.6250237	10.33532	1.361746
#1	.0588623	-.019485	.3607489	-.039226	-.001788	105.4013
#2	.0531454	-.015640	.3565981	-.039306	-.001766	105.9778
#3	.0548365	-.015301	.3631467	-.039687	-.002115	108.1516

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.247563	.0126563	.0249020	41.70476	.2383277	.1550561
Stddev	.009593	.0000601	.0003252	.55241	.0004566	.0008852
%RSD	.7689240	.4748061	1.305736	1.324568	.1915778	.5708764
#1	1.237640	.0126176	.0251932	41.23440	.2382510	.1560181
#2	1.248262	.0126257	.0245511	41.56682	.2388178	.1542760
#3	1.256787	.0127255	.0249616	42.31307	.2379143	.1548741

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2404042	205.1576	7.856265	74.21996	.3098402	.0061327
Stddev	.0024313	1.3789	.083591	1.07682	.0002306	.0002375
%RSD	1.011349	.6720947	1.064004	1.450854	.0744249	3.873314
#1	.2418195	203.9436	7.770653	73.26547	.3096467	.0061092
#2	.2375968	206.6567	7.860464	74.00707	.3097785	.0063812
#3	.2417962	204.8725	7.937677	75.38732	.3100954	.0059078

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.545797	.3645926	.8313322	25.44776	.1032553	.0027450
Stddev	.058798	.0041193	.0009623	.11583	.0023509	.0002637
%RSD	.7792138	1.129837	.1157537	.4551522	2.276782	9.606004
#1	7.554878	.3608182	.8323756	25.38784	.1023103	.0027346
#2	7.599526	.3639730	.8304797	25.58127	.1059316	.0024866
#3	7.482987	.3689866	.8311413	25.37417	.1015239	.0030137

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4821-05 Acquired: 11/14/2024 17:56:32 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081590	5.857287	F 16.29107	9.565255	.8406927	.2580521
Stddev	.0010631	.057371	.06539	.059203	.0097303	.0028430
%RSD	13.02924	.9794802	.4014109	.6189422	1.157414	1.101700
#1	.0092097	5.805188	16.21849	9.633409	.8516080	.2550999
#2	.0070840	5.847901	16.34540	9.526560	.8375415	.2582848
#3	.0081832	5.918772	16.30932	9.535796	.8329285	.2607715

Elem	Sr4077
Units	ppm
Avg	-.049293
Stddev	.001572
%RSD	3.188527
#1	-.049295
#2	-.050864
#3	-.047721

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3099.158	72198.51	16665.81	2161.262	3746.443
Stddev	7.782	317.79	117.14	11.595	11.197
%RSD	.2511044	.4401681	.7028766	.5364800	.2988814
#1	3103.407	71986.90	16714.65	2154.043	3743.294
#2	3103.892	72044.68	16750.62	2155.106	3758.878
#3	3090.176	72563.94	16532.15	2174.636	3737.157

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02 Acquired: 11/14/2024 18:00:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1321024	-.027687	1.574424	-.046539	.0014708	148.3061
Stddev	.0024779	.000375	.007893	.001963	.0005132	.3540
%RSD	1.875750	1.353299	.5012985	4.217702	34.89415	.2386714
#1	.1345206	-.028113	1.582202	-.044652	.0019795	147.8992
#2	.1295689	-.027410	1.574648	-.046396	.0014798	148.4761
#3	.1322176	-.027536	1.566421	-.048570	.0009532	148.5430

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9012368	.0138156	.0369627	60.08221	.3558778	.1852920
Stddev	.0025475	.0001086	.0002787	.06515	.0010837	.0011832
%RSD	.2826698	.7858010	.7539857	.1084418	.3045235	.6385318
#1	.9011715	.0138730	.0372570	60.06382	.3549533	.1863968
#2	.9038164	.0138834	.0369283	60.02823	.3570705	.1854357
#3	.8987226	.0136904	.0367028	60.15459	.3556097	.1840436

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5580407	251.5914	6.538672	105.1109	.2976504	.0090846
Stddev	.0027386	.4782	.013485	.3399	.0014563	.0000789
%RSD	.4907505	.1900590	.2062378	.3233950	.4892566	.8683262
#1	.5611265	252.1383	6.552386	104.8427	.2991429	.0091265
#2	.5570963	251.2523	6.525428	104.9967	.2975752	.0091336
#3	.5558993	251.3835	6.538204	105.4932	.2962333	.0089936

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.993785	.6292809	2.742902	53.59459	.1157443	.0098018
Stddev	.008376	.0020585	.002483	.15560	.0005763	.0002495
%RSD	.2797742	.3271154	.0905247	.2903259	.4979332	2.544949
#1	2.986279	.6302863	2.742994	53.55477	.1163628	.0100852
#2	3.002820	.6269129	2.745337	53.76624	.1152223	.0097045
#3	2.992254	.6306435	2.740373	53.46278	.1156477	.0096156

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02 Acquired: 11/14/2024 18:00:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0428009	F 10.00351	F 20.33827	F 11.42170	1.995818	.3112160
Stddev	.0002369	.00484	.06134	.05105	.007602	.0012980
%RSD	.5535153	.0483559	.3016187	.4469367	.3809206	.4170744
#1	.0430376	10.00841	20.26803	11.47518	2.004324	.3103529
#2	.0425638	10.00336	20.36543	11.37350	1.993445	.3127087
#3	.0428014	9.99874	20.38134	11.41641	1.989685	.3105863

Elem	Sr4077
Units	ppm
Avg	.0478352
Stddev	.0008296
%RSD	1.734348
#1	.0474945
#2	.0487810
#3	.0472302

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2928.878	67563.68	15797.70	2027.888	3577.175
Stddev	13.408	154.20	47.15	17.346	19.096
%RSD	.4577791	.2282237	.2984870	.8553631	.5338273
#1	2913.634	67420.87	15748.10	2014.059	3557.607
#2	2934.156	67542.99	15803.04	2022.256	3578.158
#3	2938.843	67727.17	15841.96	2047.350	3595.760

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02DUP Acquired: 11/14/2024 18:04:40 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1315589	-.025993	1.557842	-.046226	.0027243	144.7722
Stddev	.0023041	.003152	.003462	.001975	.0013716	1.0646
%RSD	1.751365	12.12728	.2222326	4.273134	50.34767	.7353732
#1	.1298677	-.028049	1.555915	-.044040	.0011448	144.4717
#2	.1341832	-.022364	1.555772	-.047883	.0036150	145.9548
#3	.1306259	-.027565	1.561838	-.046755	.0034130	143.8902

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8890705	.0134385	.0371391	58.43282	.3444687	.1821974
Stddev	.0053099	.0000939	.0005358	.48619	.0073328	.0009442
%RSD	.5972373	.6988107	1.442666	.8320446	2.128737	.5182157
#1	.8863092	.0133475	.0372580	58.16263	.3459148	.1821727
#2	.8951921	.0135350	.0376054	58.99409	.3365206	.1812658
#3	.8857102	.0134329	.0365538	58.14174	.3509708	.1831537

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5569640	243.5241	6.411486	102.2579	.2926602	.0085724
Stddev	.0041629	4.3363	.040906	.7982	.0013163	.0001342
%RSD	.7474249	1.780625	.6380146	.7805986	.4497810	1.565714
#1	.5543582	244.1272	6.386138	101.8260	.2919040	.0086245
#2	.5617651	238.9179	6.458677	103.1790	.2918965	.0086728
#3	.5547688	247.5273	6.389644	101.7687	.2941802	.0084200

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.835440	.6185518	2.641845	52.02467	.1088449	.0105095
Stddev	.072635	.0062628	.056726	.97412	.0048092	.0002481
%RSD	2.561698	1.012488	2.147226	1.872414	4.418423	2.360415
#1	2.859792	.6154080	2.664552	52.26642	.1096484	.0102874
#2	2.753758	.6257637	2.577282	50.95244	.1036845	.0104640
#3	2.892771	.6144837	2.683700	52.85515	.1132017	.0107772

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02DUP Acquired: 11/14/2024 18:04:40 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0422060	9.855545	F 19.69288	F 11.24836	1.930721	.3057409
Stddev	.0008736	.067359	.34993	.04612	.018201	.0013126
%RSD	2.069751	.6834648	1.776936	.4100219	.9426840	.4293085
#1	.0432114	9.829001	19.75930	11.25793	1.933621	.3054031
#2	.0417743	9.932132	19.31450	11.19820	1.911244	.3071893
#3	.0416323	9.805501	20.00485	11.28894	1.947297	.3046301

Elem	Sr4077
Units	ppm
Avg	.0502527
Stddev	.0062066
%RSD	12.35073
#1	.0491091
#2	.0569515
#3	.0446974

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2951.377	69999.98	16137.68	2092.728	3626.160
Stddev	7.793	1248.07	114.21	41.175	2.919
%RSD	.2640595	1.782960	.7077408	1.967546	.0805018
#1	2954.146	69473.95	16128.02	2065.124	3627.206
#2	2942.577	71424.95	16028.61	2140.055	3628.412
#3	2957.408	69101.02	16256.42	2073.004	3622.862

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02LX5 Acquired: 11/14/2024 18:08:44 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0300355	-.004701	.3384949	-.011940	-.000521	33.62526	.2057921
Stddev	.0030270	.000282	.0013956	.001785	.000929	.85759	.0050317
%RSD	10.07806	5.990489	.4122955	14.95141	178.4609	2.550431	2.445047
#1	.0310639	-.004890	.3369638	-.012471	-.000061	33.96069	.2078752
#2	.0324144	-.004835	.3388249	-.013399	-.001590	32.65065	.2000533
#3	.0266283	-.004377	.3396959	-.009949	.000089	34.26444	.2094477

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035273	.0050660	14.45699	.0871589	.0372338	.1463113	59.90784
Stddev	.0000414	.0000791	.35312	.0005751	.0002496	.0014704	.74507
%RSD	1.172264	1.562265	2.442553	.6598196	.6703147	1.004979	1.243690
#1	.0035669	.0051031	14.58168	.0869835	.0369458	.1454624	59.81220
#2	.0034844	.0051197	14.05844	.0866920	.0373682	.1480092	59.21521
#3	.0035306	.0049751	14.73084	.0878013	.0373872	.1454624	60.69611

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.585239	24.35206	.0612335	.0019248	.5003574	.1487047	.6765919
Stddev	.039388	.54378	.0004296	.0001073	.0213605	.0028285	.0073365
%RSD	2.484694	2.233010	.7015488	5.574789	4.269058	1.902068	1.084332
#1	1.600069	24.50925	.0612059	.0018575	.4889382	.1501162	.6749684
#2	1.540588	23.74700	.0616763	.0018685	.4871336	.1454483	.6702032
#3	1.615060	24.79993	.0608184	.0020486	.5250004	.1505496	.6846042

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.79051	.0263916	.0022890	.0176909	2.351433	4.587571	2.279513
Stddev	.12726	.0004969	.0001784	.0002801	.061553	.052618	.008446
%RSD	1.079325	1.882745	7.794350	1.583075	2.617695	1.146979	.3704967
#1	11.80372	.0260584	.0024570	.0179869	2.377186	4.574240	2.286475
#2	11.65716	.0269627	.0021018	.0174300	2.281185	4.542900	2.270118
#3	11.91065	.0261537	.0023082	.0176559	2.395927	4.645573	2.281947

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02LX5 Acquired: 11/14/2024 18:08:44 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3897535	.0699188	.0092733
Stddev	.0039582	.0018843	.0012390
%RSD	1.015575	2.695014	13.36063
#1	.3942381	.0706235	.0101314
#2	.3867469	.0677837	.0078529
#3	.3882755	.0713492	.0098356

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2694.180	61780.64	13863.87	1911.803	4103.838
Stddev	13.446	464.04	297.67	20.358	11.099
%RSD	.4990595	.7511071	2.147087	1.064844	.2704659
#1	2698.945	61834.87	13729.86	1913.257	4109.961
#2	2704.595	62215.18	14204.99	1931.395	4110.527
#3	2679.001	61291.87	13656.77	1890.757	4091.026

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV05 Acquired: 11/14/2024 18:12:54 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.897859	4.932296	4.957454	4.855596	4.894221	9.907487	9.973608
Stddev	.063167	.124076	.060992	.066353	.067020	.011708	.030974
%RSD	1.289681	2.515591	1.230303	1.366536	1.369370	.1181744	.3105602
#1	4.853933	4.837638	4.924388	4.800023	4.844579	9.901454	10.00862
#2	4.869395	4.886486	4.920136	4.837705	4.867628	9.900026	9.94977
#3	4.970250	5.072764	5.027838	4.929061	4.970457	9.920981	9.96244

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2529287	2.470522	24.92830	.9964469	2.469876	1.241115	4.941354
Stddev	.0019278	.030089	.06225	.0045939	.031213	.015487	.044257
%RSD	.7622077	1.217928	.2497075	.4610272	1.263763	1.247799	.8956409
#1	.2544970	2.455181	24.86569	.9985067	2.452609	1.231685	4.890251
#2	.2507764	2.451196	24.92905	.9911835	2.451111	1.232672	4.967217
#3	.2535127	2.505190	24.99017	.9996503	2.505907	1.258989	4.966593

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.493356	24.44298	2.476560	1.241256	24.81403	2.482338	2.496760
Stddev	.014529	.08387	.031729	.001860	.25494	.003292	.000991
%RSD	.5827102	.3431381	1.281159	.1498230	1.027404	.1326320	.0396826
#1	2.477027	24.37149	2.459993	1.240862	24.54999	2.478585	2.496261
#2	2.498187	24.42213	2.456545	1.239624	25.05878	2.484738	2.496118
#3	2.504854	24.53530	2.513143	1.243281	24.83333	2.483691	2.497901

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.29245	5.029141	4.962067	4.942856	4.938393	4.894923	5.066351
Stddev	.18534	.025834	.065684	.067533	.013917	.031533	.083341
%RSD	.7629698	.5136767	1.323720	1.366268	.2818040	.6441920	1.644981
#1	24.08752	5.057225	4.917511	4.913410	4.922634	4.861655	5.013196
#2	24.44834	5.006391	4.931190	4.895045	4.943549	4.924372	5.023454
#3	24.34149	5.023806	5.037500	5.020111	4.948996	4.898742	5.162402

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV05 Acquired: 11/14/2024 18:12:54 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.780519	4.905483	5.043886
Stddev	.077882	.013706	.021502
%RSD	1.629155	.2794113	.4262982
#1	4.735008	4.889777	5.021321
#2	4.736103	4.915027	5.046200
#3	4.870448	4.911645	5.064138

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2571.276	58105.51	12776.85	1822.941	4047.086
Stddev	30.893	173.82	30.55	8.354	49.059
%RSD	1.201476	.2991413	.2390893	.4582619	1.212202
#1	2593.469	58274.69	12742.95	1829.933	4075.813
#2	2584.366	57927.40	12802.24	1813.690	4075.004
#3	2535.993	58114.45	12785.37	1825.200	3990.439

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB05 Acquired: 11/14/2024 18:17:05 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001313	-.000827	-.000053	.0006302	-.000120	.0003192	.0001059
Stddev	.0021603	.000202	.000456	.0002480	.000464	.0014470	.0001515
%RSD	1645.028	24.40551	867.9738	39.34625	388.2862	453.3182	143.0323
#1	.0023709	-.001041	-.000514	.0003441	.000405	-.000303	.0002180
#2	-.001940	-.000640	.000398	.0007640	-.000476	.001973	.0001663
#3	-.000037	-.000800	-.000041	.0007825	-.000288	-.000713	-.000066

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000390	-.000036	.0166305	.0000013	.0001087	-.000187	.0003597
Stddev	.0000632	.000054	.0080975	.0001436	.0001707	.000159	.0021601
%RSD	162.1291	152.5984	48.69094	11522.34	157.0584	84.99526	600.4772
#1	.0000283	-.000096	.0152641	-.000055	.0000424	-.000254	-.001329
#2	.0001068	.000007	.0253242	-.000106	.0003025	-.000302	.002794
#3	-.000018	-.000017	.0093030	.000164	-.000019	-.000006	-.000386

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000006	.0009847	.0002402	-.000226	-.217395	-.000398	.0007030
Stddev	.000197	.0102860	.0001559	.000162	.005281	.001171	.0000089
%RSD	3049.360	1044.581	64.91155	71.60765	2.429052	294.1705	1.261570
#1	.000204	.0012400	.0002328	-.000263	-.214834	-.000018	.0007078
#2	-.000185	.0111407	.0003997	-.000049	-.223468	.000536	.0007083
#3	-.000039	-.009427	.0000881	-.000366	-.213883	-.001713	.0006927

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.064759	.0041725	-.000035	.0029980	-.000030	.0064944	-.000316
Stddev	.011310	.0002575	.000085	.0002684	.000267	.0023147	.001254
%RSD	17.46471	6.170619	241.1801	8.953754	901.6446	35.64099	396.1757
#1	-.075641	.0040040	.000061	.0028885	.000278	.0059091	-.001737
#2	-.065571	.0044689	-.000100	.0033038	-.000168	.0045286	.000153
#3	-.053065	.0040447	-.000068	.0028016	-.000199	.0090456	.000635

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB05 Acquired: 11/14/2024 18:17:05 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001906	.0000104	-.000020
Stddev	.001781	.0005287	.000022
%RSD	93.45052	5087.203	108.1845
#1	-.002508	-.000354	-.000029
#2	.000098	-.000231	-.000035
#3	-.003308	.000617	.000005

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2734.017	62370.90	13201.46	1910.510	4728.660
Stddev	4.947	1392.05	230.42	47.248	9.807
%RSD	.1809392	2.231893	1.745442	2.473082	.2073861
#1	2736.056	60770.35	13376.15	1856.280	4736.753
#2	2737.618	63299.57	13287.92	1932.454	4731.472
#3	2728.376	63042.79	12940.31	1942.796	4717.755

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02MS Acquired: 11/14/2024 18:21:26 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7489217	1.696357	2.422174	1.416407	.5999779	149.2889
Stddev	.0041457	.028467	.005937	.008606	.0025571	.8625
%RSD	.5535616	1.678107	.2451137	.6075894	.4261979	.5777681
#1	.7536859	1.727878	2.423654	1.426293	.6024251	148.3130
#2	.7469438	1.688669	2.415637	1.410594	.6001851	149.6047
#3	.7461353	1.672524	2.427231	1.412333	.5973235	149.9491

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.066228	.1611109	.2195706	60.20522	.6430350	.3691260
Stddev	.003850	.0010096	.0007274	.55626	.0060276	.0011941
%RSD	.3610608	.6266566	.3312769	.9239475	.9373624	.3234809
#1	1.061801	.1600469	.2198773	59.56833	.6484611	.3693480
#2	1.068790	.1620555	.2187400	60.45149	.6440968	.3678365
#3	1.068092	.1612304	.2200943	60.59583	.6365470	.3701935

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7660792	246.8651	6.687021	105.5860	.7557688	.0665936
Stddev	.0048655	1.5466	.049009	1.1319	.0024322	.0008922
%RSD	.6351221	.6264835	.7328945	1.071990	.3218116	1.339764
#1	.7679886	247.9938	6.630672	104.3162	.7557327	.0672828
#2	.7605486	247.4992	6.719713	105.9529	.7533549	.0669122
#3	.7697004	245.1023	6.710678	106.4889	.7582188	.0655859

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.284667	.8577692	2.815447	60.17952	.3121608	.3205741
Stddev	.070165	.0079867	.026844	.55384	.0017241	.0015791
%RSD	1.327716	.9311034	.9534593	.9203195	.5523063	.4925887
#1	5.342080	.8490490	2.832255	60.70808	.3117678	.3223855
#2	5.305468	.8595299	2.829599	60.22702	.3140475	.3194877
#3	5.206453	.8647287	2.784488	59.60345	.3106672	.3198491

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02MS Acquired: 11/14/2024 18:21:26 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6785039	F 10.23158	F 20.12117	F 16.83302	1.903231	.4777854
Stddev	.0022604	.06023	.11326	.05147	.013528	.0021752
%RSD	.3331478	.5886925	.5629063	.3057570	.7108051	.4552603
#1	.6789819	10.16205	20.24487	16.87997	1.918147	.4754278
#2	.6760426	10.26800	20.09612	16.77799	1.891755	.4797143
#3	.6804870	10.26468	20.02253	16.84110	1.899790	.4782142

Elem	Sr4077
Units	ppm
Avg	.2158898
Stddev	.0031695
%RSD	1.468100
#1	.2124027
#2	.2166711
#3	.2185956

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2925.493	68441.47	15530.68	2034.941	3592.164
Stddev	15.263	691.14	67.12	23.264	16.244
%RSD	.5217117	1.009829	.4321475	1.143235	.4522057
#1	2908.042	67795.37	15604.42	2017.846	3573.816
#2	2932.082	68358.84	15473.17	2025.543	3604.711
#3	2936.354	69170.22	15514.45	2061.434	3597.966

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02MSD Acquired: 11/14/2024 18:25:22 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7485457	1.696148	2.396768	1.425367	.6037924	145.3795
Stddev	.0044948	.026727	.013532	.005173	.0057420	.8014
%RSD	.6004783	1.575748	.5646021	.3629154	.9509959	.5512719
#1	.7508879	1.687371	2.400512	1.431310	.6071430	144.7655
#2	.7433634	1.674913	2.408033	1.421882	.6070721	145.0869
#3	.7513857	1.726160	2.381758	1.422908	.5971622	146.2861

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.035952	.1595602	.2188445	58.58955	.6345590	.3650555
Stddev	.005406	.0007343	.0017724	.71449	.0044634	.0024014
%RSD	.5218120	.4601909	.8098864	1.219485	.7033794	.6578275
#1	1.030921	.1590639	.2201077	58.12456	.6294263	.3665727
#2	1.035268	.1592131	.2196075	58.23184	.6367219	.3663070
#3	1.041667	.1604037	.2168184	59.41224	.6375289	.3622868

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7616876	241.6381	6.483661	103.1458	.7481632	.0660943
Stddev	.0094914	3.0961	.076113	1.3582	.0050526	.0007408
%RSD	1.246100	1.281295	1.173918	1.316781	.6753295	1.120835
#1	.7702486	238.5119	6.428811	102.1793	.7512735	.0653229
#2	.7633332	241.6992	6.451615	102.5595	.7508826	.0661599
#3	.7514810	244.7032	6.570557	104.6987	.7423333	.0668002

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.171350	.8380758	2.762964	59.07939	.3095594	.3216731
Stddev	.034620	.0082978	.016781	.53663	.0030978	.0015647
%RSD	.6694661	.9901014	.6073389	.9083197	1.000699	.4864387
#1	5.131568	.8316196	2.753128	58.46117	.3061239	.3231917
#2	5.194648	.8351728	2.753425	59.42482	.3104144	.3217616
#3	5.187835	.8474351	2.782340	59.35219	.3121398	.3200660

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02MSD Acquired: 11/14/2024 18:25:22 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6805783	9.994430	F 19.81795	F 16.53572	1.878186	.4651261
Stddev	.0039206	.080204	.16112	.00786	.010711	.0015621
%RSD	.5760726	.8024821	.8130122	.0475420	.5702731	.3358404
#1	.6829761	9.934494	19.64854	16.53936	1.889220	.4634429
#2	.6827050	9.963256	19.83604	16.54109	1.877507	.4654064
#3	.6760539	10.08554	19.96926	16.52669	1.867830	.4665291

Elem	Sr4077
Units	ppm
Avg	.2091956
Stddev	.0005444
%RSD	.2602244
#1	.2096681
#2	.2086003
#3	.2093183

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2958.174	69434.49	15891.84	2078.536	3650.457
Stddev	24.175	355.64	79.62	20.490	28.805
%RSD	.8172419	.5121918	.5010340	.9858006	.7890855
#1	2931.884	69844.01	15914.02	2088.767	3621.916
#2	2963.192	69256.14	15958.03	2091.896	3649.937
#3	2979.447	69203.31	15803.49	2054.945	3679.519

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02A Acquired: 11/14/2024 18:29:19 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7517740	1.740225	2.411519	1.440545	.6100757	145.0494
Stddev	.0034032	.020781	.016806	.007903	.0035723	.4886
%RSD	.4526914	1.194146	.6968897	.5485834	.5855572	.3368540
#1	.7497835	1.725540	2.392121	1.431443	.6066045	144.6518
#2	.7498350	1.731132	2.420732	1.444535	.6098813	144.9015
#3	.7557036	1.764002	2.421703	1.445658	.6137412	145.5948

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.030660	.1594875	.2207731	58.19011	.6388009	.3682062
Stddev	.002856	.0002171	.0014767	.11440	.0050338	.0025836
%RSD	.2771433	.1361358	.6688673	.1965908	.7880053	.7016728
#1	1.028610	.1594634	.2190689	58.06873	.6360874	.3652230
#2	1.029448	.1597156	.2216729	58.20567	.6446092	.3696799
#3	1.033923	.1592834	.2215775	58.29593	.6357060	.3697156

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7658275	242.4850	6.428657	102.6166	.7549320	.0668669
Stddev	.0038514	.9247	.009523	.2029	.0045821	.0003342
%RSD	.5029063	.3813304	.1481412	.1977660	.6069601	.4998655
#1	.7613907	241.5646	6.420100	102.4021	.7497380	.0664822
#2	.7677833	243.4139	6.426953	102.6423	.7584026	.0670325
#3	.7683086	242.4766	6.438917	102.8055	.7566553	.0670860

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.191701	.8355456	2.763679	59.42060	.3111305	.3249724
Stddev	.025308	.0009584	.022283	.26120	.0015739	.0016867
%RSD	.4874750	.1147017	.8062944	.4395806	.5058749	.5190372
#1	5.163391	.8345360	2.738882	59.13659	.3093162	.3232070
#2	5.212134	.8356579	2.782025	59.65053	.3119454	.3251426
#3	5.199578	.8364429	2.770131	59.47468	.3121299	.3265676

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-02A Acquired: 11/14/2024 18:29:19 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6839903	9.980844	F 20.18794	F 16.66014	1.891477	.4624673
Stddev	.0029053	.016776	.10998	.16982	.016502	.0011948
%RSD	.4247525	.1680785	.5447913	1.019322	.8724513	.2583520
#1	.6809144	9.966439	20.06544	16.48579	1.874737	.4618149
#2	.6843685	9.976831	20.27820	16.66958	1.891965	.4617407
#3	.6866879	9.999262	20.22017	16.82504	1.907730	.4638462

Elem	Sr4077
Units	ppm
Avg	.2056614
Stddev	.0010732
%RSD	.5218121
#1	.2054990
#2	.2046787
#3	.2068065

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2942.511	69173.25	15992.14	2062.822	3629.757
Stddev	4.151	208.13	20.82	17.823	11.926
%RSD	.1410611	.3008890	.1301842	.8640309	.3285646
#1	2947.300	69383.53	15982.14	2083.382	3643.526
#2	2940.281	68967.33	16016.07	2053.352	3623.074
#3	2939.951	69168.88	15978.20	2051.733	3622.671

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-04 Acquired: 11/14/2024 18:33:15 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1491290	-.039377	2.114430	-.052754	.0012267	174.2180
Stddev	.0032188	.001976	.002630	.002561	.0009215	2.3204
%RSD	2.158419	5.017621	.1243915	4.853650	75.11819	1.331889
#1	.1518552	-.041577	2.116413	-.055706	.0014837	171.8142
#2	.1455781	-.038801	2.111446	-.051133	.0019924	174.3949
#3	.1499538	-.037753	2.115431	-.051424	.0002040	176.4448

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9898708	.0164988	.0486136	101.4414	.3699691	.2223862
Stddev	.0144629	.0002756	.0009903	1.6088	.0072192	.0009669
%RSD	1.461091	1.670465	2.037106	1.585948	1.951289	.4348083
#1	.9771490	.0162121	.0496400	99.8134	.3616967	.2233326
#2	.9868620	.0165227	.0485369	101.4804	.3732156	.2224262
#3	1.005602	.0167618	.0476639	103.0303	.3749951	.2213999

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7071542	265.6038	7.839906	141.1372	.3970783	.0095792
Stddev	.0080307	5.8363	.119760	2.4151	.0003860	.0002941
%RSD	1.135636	2.197366	1.527564	1.711187	.0972168	3.070513
#1	.7164111	258.9076	7.721348	138.8241	.3970763	.0092868
#2	.7029989	268.2940	7.837537	140.9449	.3966933	.0098751
#3	.7020525	269.6098	7.960832	143.6428	.3974653	.0095758

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.904907	.7163275	3.841867	52.86605	.1180335	.0145345
Stddev	.066255	.0120796	.070218	.98975	.0051777	.0003847
%RSD	2.280813	1.686319	1.827697	1.872184	4.386661	2.646443
#1	2.829305	.7056237	3.763919	51.74849	.1121376	.0149122
#2	2.932556	.7139343	3.861512	53.21769	.1201225	.0141433
#3	2.952859	.7294245	3.900170	53.63196	.1218403	.0145479

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-04 Acquired: 11/14/2024 18:33:15 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0938081	F 11.07304	F 21.93679	F 12.43351	1.783421	.3381103
Stddev	.0011188	.15335	.44030	.03107	.010659	.0049205
%RSD	1.192620	1.384871	2.007112	.2498960	.5976680	1.455281
#1	.0950991	10.92680	21.43148	12.42789	1.792627	.3339336
#2	.0932032	11.05969	22.14088	12.46701	1.785892	.3368628
#3	.0931220	11.23262	22.23801	12.40564	1.771743	.3435344

Elem	Sr4077
Units	ppm
Avg	.0413660
Stddev	.0032129
%RSD	7.766956
#1	.0441768
#2	.0378636
#3	.0420576

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3111.357	72971.84	16661.25	2218.480	3523.354
Stddev	12.875	1255.84	169.32	32.781	9.965
%RSD	.4138185	1.720994	1.016228	1.477622	.2828216
#1	3097.596	74421.26	16838.90	2256.327	3512.919
#2	3123.112	72208.06	16643.12	2199.062	3532.770
#3	3113.363	72286.20	16501.72	2200.050	3524.373

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-06 Acquired: 11/14/2024 18:37:27 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1423400	-.032572	1.898340	-.049634	.0070373	160.8770
Stddev	.0014028	.004437	.005177	.003069	.0017425	3.8641
%RSD	.9855582	13.62083	.2727171	6.183560	24.76018	2.401894
#1	.1439338	-.035254	1.898698	-.052543	.0051006	156.5962
#2	.1417938	-.027451	1.892993	-.049933	.0075334	161.9277
#3	.1412924	-.035012	1.903329	-.046427	.0084780	164.1070

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9175140	.0149432	.0428419	69.26612	.3832662	.1950160
Stddev	.0179599	.0002150	.0003546	1.76165	.0004217	.0008303
%RSD	1.957453	1.438823	.8276339	2.543313	.1100171	.4257356
#1	.8968027	.0146956	.0432409	67.23558	.3833812	.1956058
#2	.9269538	.0150829	.0425630	70.38683	.3827990	.1940666
#3	.9287855	.0150512	.0427216	70.17595	.3836184	.1953757

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6709657	249.7008	7.268839	109.4971	.3516727	.0084430
Stddev	.0028315	1.9154	.171552	2.7783	.0004876	.0003236
%RSD	.4220076	.7670869	2.360101	2.537345	.1386410	3.833100
#1	.6740531	247.5120	7.070793	106.3027	.3520443	.0080693
#2	.6684902	250.5201	7.371482	111.3509	.3511206	.0086264
#3	.6703536	251.0703	7.364244	110.8378	.3518532	.0086332

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.610373	.6877506	3.197182	47.55832	.1063201	.0162065
Stddev	.015907	.0163447	.009117	.14156	.0027959	.0004441
%RSD	.6093605	2.376545	.2851467	.2976455	2.629736	2.740458
#1	2.598639	.6688775	3.200900	47.42791	.1063467	.0165477
#2	2.604003	.6972361	3.203853	47.53818	.1035110	.0163674
#3	2.628477	.6971383	3.186794	47.70886	.1091027	.0157043

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-06 Acquired: 11/14/2024 18:37:27 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0807461	F 10.08177	F 18.99742	F 11.64039	3.062835	.3031869
Stddev	.0019178	.22277	.08677	.03291	.010989	.0057088
%RSD	2.375060	2.209596	.4567383	.2827497	.3587816	1.882920
#1	.0812896	9.82454	18.89759	11.67802	3.074914	.2966142
#2	.0823334	10.21086	19.03998	11.62620	3.060162	.3060377
#3	.0786152	10.20991	19.05469	11.61695	3.053429	.3069088

Elem	Sr4077
Units	ppm
Avg	.0508991
Stddev	.0041601
%RSD	8.173238
#1	.0461037
#2	.0535403
#3	.0530533

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3077.827	71885.05	16265.66	2194.137	3567.109
Stddev	3.944	165.82	249.58	1.659	7.750
%RSD	.1281579	.2306750	1.534405	.0756333	.2172651
#1	3076.639	71722.98	16549.46	2194.970	3563.700
#2	3082.229	71877.79	16080.37	2192.226	3575.979
#3	3074.614	72054.38	16167.14	2195.214	3561.647

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-08 Acquired: 11/14/2024 18:41:40 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1450244	-.027283	2.025177	-.050470	.0063339	166.0689
Stddev	.0028378	.004254	.002536	.000914	.0011783	.7835
%RSD	1.956810	15.59299	.1252062	1.810678	18.60307	.4717904
#1	.1446496	-.025851	2.022284	-.050439	.0067809	165.1877
#2	.1480310	-.032068	2.027011	-.049571	.0049976	166.3318
#3	.1423925	-.023929	2.026237	-.051398	.0072234	166.6871

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.027011	.0152605	.0443995	93.26761	.3778441	.2076763
Stddev	.003025	.0001500	.0004729	.57114	.0009298	.0004516
%RSD	.2945432	.9831006	1.065067	.6123698	.2460659	.2174305
#1	1.025751	.0154256	.0449369	92.62014	.3787437	.2071776
#2	1.024819	.0152232	.0442146	93.48276	.3779016	.2077937
#3	1.030462	.0151326	.0440470	93.69993	.3768869	.2080575

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7155326	262.0883	7.135035	114.3442	.3809989	.0085322
Stddev	.0028012	2.0198	.037005	.5848	.0010937	.0007837
%RSD	.3914886	.7706540	.5186424	.5114277	.2870487	9.185075
#1	.7187319	259.8547	7.097868	113.6767	.3809115	.0077406
#2	.7143454	262.6237	7.135361	114.7661	.3799516	.0085481
#3	.7135205	263.7864	7.171876	114.5898	.3821336	.0093077

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.115566	.6798164	3.706843	53.78164	.1313991	.0156143
Stddev	.014393	.0043197	.014954	.17305	.0014042	.0002313
%RSD	.4619707	.6354143	.4034120	.3217551	1.068625	1.481390
#1	3.098951	.6758263	3.711685	53.58306	.1297970	.0155975
#2	3.123523	.6792193	3.718776	53.86169	.1324161	.0153918
#3	3.124223	.6844035	3.690068	53.90017	.1319843	.0158535

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-08 Acquired: 11/14/2024 18:41:40 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1000202	9.894756	F 18.35171	F 13.22481	3.728047	.3315314
Stddev	.0028384	.033686	.14182	.07837	.027745	.0010904
%RSD	2.837840	.3404443	.7728056	.5925792	.7442133	.3288987
#1	.1022704	9.858554	18.18915	13.30073	3.759348	.3324273
#2	.0968314	9.900536	18.45010	13.22948	3.706483	.3318497
#3	.1009589	9.925179	18.41589	13.14421	3.718310	.3303173

Elem	Sr4077
Units	ppm
Avg	.1731337
Stddev	.0014976
%RSD	.8650087
#1	.1748210
#2	.1719619
#3	.1726181

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3125.517	72777.78	16942.57	2188.704	3650.103
Stddev	6.620	229.26	46.83	15.202	12.775
%RSD	.2117941	.3150174	.2764235	.6945712	.3499950
#1	3118.431	72905.56	16925.37	2193.957	3639.337
#2	3131.542	72513.10	16906.76	2171.572	3664.220
#3	3126.578	72914.67	16995.57	2200.583	3646.753

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-10 Acquired: 11/14/2024 18:45:51 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1503382	-.031874	1.462022	-.045527	.0012034	173.5326
Stddev	.0020389	.002471	.001836	.002212	.0008575	.3655
%RSD	1.356245	7.753171	.1255903	4.859541	71.25520	.2106503
#1	.1486487	-.029643	1.460559	-.044076	.0002933	173.9529
#2	.1497629	-.031449	1.461423	-.044433	.0019961	173.2891
#3	.1526030	-.034531	1.464082	-.048074	.0013209	173.3558

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8674859	.0159703	.0427957	62.67720	.3588300	.2061196
Stddev	.0066549	.0001238	.0003539	.21066	.0011323	.0003133
%RSD	.7671529	.7748843	.8270413	.3360990	.3155637	.1519921
#1	.8729218	.0160642	.0424489	62.91470	.3601332	.2060115
#2	.8694718	.0160165	.0427818	62.60398	.3580857	.2058746
#3	.8600641	.0158301	.0431564	62.51293	.3582712	.2064726

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5165227	256.0518	7.305463	120.3483	.3430457	.0087793
Stddev	.0019811	1.0118	.038707	.3138	.0009014	.0002471
%RSD	.3835443	.3951638	.5298334	.2607270	.2627618	2.814668
#1	.5142934	257.1664	7.345762	120.7079	.3422157	.0088879
#2	.5171934	255.1912	7.302053	120.1303	.3429168	.0089535
#3	.5180814	255.7978	7.268574	120.2066	.3440046	.0084965

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.017431	.7055129	2.731858	52.79926	.0991274	.0139223
Stddev	.022541	.0030116	.007773	.15181	.0009622	.0001358
%RSD	.7470301	.4268592	.2845354	.2875144	.9706472	.9753162
#1	3.032095	.7089144	2.738871	52.96717	.0992416	.0138467
#2	3.028723	.7044380	2.723501	52.75887	.0981132	.0140791
#3	2.991476	.7031863	2.733202	52.67173	.1000274	.0138412

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-10 Acquired: 11/14/2024 18:45:51 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0396887	F 10.89081	F 25.09638	F 12.26436	2.065589	.3431772
Stddev	.0010325	.05756	.06027	.02980	.010542	.0031020
%RSD	2.601394	.5285071	.2401623	.2429985	.5103629	.9039012
#1	.0389162	10.94564	25.13487	12.23084	2.057709	.3459669
#2	.0392886	10.89591	25.02692	12.27437	2.061493	.3437281
#3	.0408613	10.83086	25.12735	12.28786	2.077564	.3398367

Elem	Sr4077
Units	ppm
Avg	.0324786
Stddev	.0018607
%RSD	5.728988
#1	.0331064
#2	.0339441
#3	.0303852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3171.177	74052.87	17189.31	2227.526	3607.093
Stddev	10.463	194.66	77.11	5.966	8.499
%RSD	.3299311	.2628651	.4486082	.2678121	.2356259
#1	3174.980	73845.34	17113.02	2224.278	3612.747
#2	3179.206	74231.41	17187.67	2234.411	3611.213
#3	3159.344	74081.85	17267.22	2223.890	3597.319

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-12 Acquired: 11/14/2024 18:50:03 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1656589	-.030311	1.479675	-.055518	.0029345	191.8692
Stddev	.0021368	.006718	.019374	.002965	.0022363	.9804
%RSD	1.289901	22.16350	1.309321	5.340030	76.20834	.5109670
#1	.1631968	-.023943	1.457356	-.052142	.0016675	190.9439
#2	.1667500	-.029659	1.489521	-.056714	.0016194	191.7671
#3	.1670299	-.037331	1.492149	-.057698	.0055167	192.8966

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.049349	.0172124	.0515921	151.8494	.4185068	.2311318
Stddev	.003157	.0000981	.0012080	.7163	.0002640	.0035940
%RSD	.3008878	.5701418	2.341448	.4717359	.0630919	1.554945
#1	1.046956	.0171339	.0502912	151.0758	.4183558	.2271258
#2	1.048165	.0171809	.0518066	151.9829	.4183529	.2321964
#3	1.052928	.0173224	.0526785	152.4897	.4188117	.2340732

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5580274	286.4243	7.550095	128.5077	.3871422	.0101756
Stddev	.0073788	1.0783	.044332	.4091	.0056510	.0002805
%RSD	1.322300	.3764634	.5871673	.3183528	1.459668	2.756807
#1	.5497358	285.4925	7.502802	128.1288	.3806176	.0099394
#2	.5604753	287.6054	7.556775	128.4528	.3903289	.0104856
#3	.5638712	286.1750	7.590708	128.9415	.3904801	.0101017

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.248437	.7637819	2.919169	63.83724	.1259974	.0123119
Stddev	.008985	.0040280	.007965	.15975	.0008615	.0003904
%RSD	.2765885	.5273816	.2728658	.2502518	.6837502	3.170704
#1	3.238819	.7600919	2.919732	63.77504	.1250035	.0118637
#2	3.256614	.7631748	2.926839	64.01874	.1265309	.0125779
#3	3.249879	.7680790	2.910938	63.71795	.1264578	.0124940

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4822-12 Acquired: 11/14/2024 18:50:03 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0346623	F 11.38953	F 17.52364	F 13.81610	3.551545	.3721716
Stddev	.0014455	.02889	.05133	.16177	.042896	.0005227
%RSD	4.170084	.2536683	.2928953	1.170873	1.207821	.1404463
#1	.0351490	11.36430	17.51743	13.63492	3.502382	.3719978
#2	.0330364	11.38325	17.57778	13.86731	3.570899	.3717580
#3	.0358017	11.42105	17.47569	13.94606	3.581354	.3727591

Elem	Sr4077
Units	ppm
Avg	.4709532
Stddev	.0014129
%RSD	.3000063
#1	.4724617
#2	.4696608
#3	.4707371

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3024.783	72142.23	16858.70	2155.032	3408.308
Stddev	19.111	220.43	18.89	19.360	34.370
%RSD	.6318115	.3055466	.1120523	.8983669	1.008421
#1	3046.658	72029.66	16846.86	2142.246	3447.979
#2	3011.323	72000.82	16880.48	2145.544	3387.477
#3	3016.369	72396.21	16848.75	2177.306	3389.469

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4823-01 Acquired: 11/14/2024 18:54:29 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0489826	-.007909	.4271313	-.024103	.0028259	86.51171
Stddev	.0017616	.001100	.0020612	.001057	.0006435	.28051
%RSD	3.596456	13.90989	.4825709	4.386033	22.77202	.3242399
#1	.0490690	-.007454	.4272999	-.024454	.0035582	86.24761
#2	.0506995	-.009163	.4249910	-.024939	.0025684	86.48137
#3	.0471794	-.007109	.4291030	-.022914	.0023510	86.80615

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5314983	.0075340	.0142581	41.44309	.1423347	.0952852
Stddev	.0021182	.0000371	.0001638	.19715	.0003265	.0006551
%RSD	.3985327	.4923111	1.148676	.4757155	.2293639	.6874942
#1	.5290524	.0075556	.0144462	41.21580	.1426233	.0950392
#2	.5327198	.0075552	.0141476	41.54567	.1419804	.0947888
#3	.5327227	.0074911	.0141804	41.56779	.1424005	.0960277

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4379494	152.7274	4.525997	34.07564	.1576226	.0046864
Stddev	.0026369	.5091	.017881	.15717	.0006557	.0003707
%RSD	.6021107	.3333147	.3950810	.4612340	.4159952	7.910941
#1	.4371010	152.1541	4.505868	33.89446	.1572354	.0042932
#2	.4358411	153.1263	4.540043	34.17528	.1572527	.0050296
#3	.4409061	152.9019	4.532079	34.15718	.1583797	.0047365

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.92727	.2805130	.5201636	14.95297	.2866639	.0062510
Stddev	.01692	.0018813	.0011585	.04923	.0000656	.0003921
%RSD	.0894084	.6706640	.2227257	.3292162	.0228906	6.273058
#1	18.91001	.2783413	.5189134	14.89996	.2866298	.0064596
#2	18.92797	.2816424	.5212009	14.96170	.2866224	.0057987
#3	18.94383	.2815554	.5203767	14.99725	.2867396	.0064947

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4823-01 Acquired: 11/14/2024 18:54:29 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0281980	4.031022	F 21.07828	7.350700	1.649113	.1140577
Stddev	.0009423	.013262	.04124	.020170	.010844	.0004268
%RSD	3.341833	.3289877	.1956297	.2743927	.6575875	.3741838
#1	.0283299	4.015899	21.03214	7.330120	1.638894	.1135705
#2	.0271967	4.036498	21.11152	7.370433	1.647955	.1142371
#3	.0290675	4.040668	21.09118	7.351547	1.660490	.1143655

Elem	Sr4077
Units	ppm
Avg	.0453247
Stddev	.0003565
%RSD	.7864302
#1	.0450399
#2	.0452099
#3	.0457245

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2908.030	67547.90	15330.98	2038.177	3840.983
Stddev	12.789	212.73	42.37	8.971	17.451
%RSD	.4397718	.3149285	.2763819	.4401675	.4543360
#1	2908.633	67378.40	15303.72	2035.129	3837.864
#2	2920.507	67478.69	15309.43	2031.127	3859.783
#3	2894.951	67786.61	15379.80	2048.275	3825.302

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-05 Acquired: 11/14/2024 18:58:33 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038722	-.009703	.0136650	-.000664	.0066877	.3105432
Stddev	.0005139	.001520	.0004881	.002541	.0007615	.0096062
%RSD	13.27199	15.66220	3.571806	382.6823	11.38684	3.093357
#1	.0037045	-.010793	.0140661	-.003598	.0064673	.3214992
#2	.0044490	-.010349	.0138073	.000778	.0060607	.3035640
#3	.0034631	-.007967	.0131215	.000828	.0075351	.3065664

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2179540	-.000197	.0004202	315.2588	.0092655	.0035064
Stddev	.0009601	.000032	.0000926	1.6253	.0000950	.0001201
%RSD	.4404840	16.45612	22.04907	.5155453	1.025038	3.424205
#1	.2170530	-.000168	.0004392	315.9401	.0092411	.0033800
#2	.2178452	-.000190	.0003195	313.4037	.0091852	.0036190
#3	.2189638	-.000232	.0005018	316.4325	.0093703	.0035203

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157327	.7254187	.6421302	12.39735	.0059848	-.000502
Stddev	.0002925	.0083955	.0020007	.04364	.0002104	.000092
%RSD	1.858945	1.157325	.3115763	.3520038	3.515944	18.36281
#1	.0157970	.7216575	.6411824	12.42071	.0058436	-.000401
#2	.0154134	.7195615	.6407795	12.34700	.0062267	-.000582
#3	.0159876	.7350371	.6444287	12.42434	.0058842	-.000522

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.86677	.0044719	.1358129	8.367224	.0787634	.0302419
Stddev	.19763	.0007548	.0001540	.032075	.0010890	.0006443
%RSD	.9471030	16.87923	.1133981	.3833448	1.382580	2.130445
#1	20.65240	.0048229	.1359676	8.330264	.0798565	.0301875
#2	20.90616	.0036055	.1358116	8.387778	.0776786	.0296265
#3	21.04173	.0049873	.1356595	8.383630	.0787551	.0309116

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-05 Acquired: 11/14/2024 18:58:33 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005759	.0077362	6.489744	.0727078	F 122.5358	-.037858
Stddev	.000780	.0000775	.041458	.0011811	2.0652	.000604
%RSD	13.54892	1.002031	.6388206	1.624424	1.685370	1.596647
#1	-.005654	.0076780	6.458671	.0721979	121.3291	-.038185
#2	-.005037	.0077064	6.473743	.0740582	121.3580	-.037161
#3	-.006587	.0078242	6.536818	.0718674	124.9204	-.038230

Elem	Sr4077
Units	ppm
Avg	1.443807
Stddev	.017422
%RSD	1.206645
#1	1.462926
#2	1.439662
#3	1.428831

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2409.170	56776.18	12834.96	1723.319	3901.057
Stddev	34.679	95.90	47.96	4.311	57.791
%RSD	1.439469	.1689059	.3736938	.2501549	1.481418
#1	2425.621	56764.94	12781.19	1719.642	3933.176
#2	2432.561	56877.20	12873.36	1728.063	3935.655
#3	2369.326	56686.39	12850.32	1722.250	3834.341

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV06 Acquired: 11/14/2024 19:03:05 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.766101	4.958053	4.821432	4.724869	4.753076	9.672029	9.916254
Stddev	.018578	.099481	.008672	.016992	.015634	.024873	.062609
%RSD	.3898023	2.006445	.1798533	.3596223	.3289211	.2571592	.6313820
#1	4.747009	4.847538	4.824398	4.707438	4.741013	9.654594	9.939548
#2	4.767175	5.040444	4.828231	4.725786	4.747476	9.700512	9.963878
#3	4.784119	4.986176	4.811666	4.741384	4.770739	9.660982	9.845337

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2501826	2.403829	24.47551	.9710637	2.401760	1.206727	4.839234
Stddev	.0014110	.006008	.16128	.0022333	.004604	.003352	.028858
%RSD	.5639720	.2499291	.6589414	.2299876	.1917133	.2778047	.5963278
#1	.2501725	2.407927	24.34206	.9685061	2.405251	1.203302	4.814372
#2	.2515986	2.406627	24.65472	.9720564	2.403487	1.206877	4.832450
#3	.2487767	2.396932	24.42975	.9726286	2.396541	1.210001	4.870879

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.460393	23.85664	2.410919	1.212853	24.97771	2.429935	2.421314
Stddev	.011450	.15190	.003371	.001832	.11459	.013478	.005737
%RSD	.4653848	.6367278	.1398335	.1510303	.4587715	.5546848	.2369199
#1	2.453752	23.70149	2.413140	1.211335	25.10954	2.416422	2.420637
#2	2.473614	24.00507	2.412578	1.212336	24.92168	2.443378	2.415946
#3	2.453812	23.86335	2.407040	1.214888	24.90191	2.430005	2.427359

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.76996	4.968005	4.828048	4.814036	4.848478	4.785095	4.935766
Stddev	.09568	.031415	.012311	.016568	.017358	.040029	.027884
%RSD	.4025081	.6323533	.2549915	.3441663	.3579991	.8365321	.5649424
#1	23.80334	4.968627	4.814846	4.812717	4.840269	4.748797	4.903676
#2	23.66206	4.999105	4.830083	4.831225	4.868418	4.778464	4.954097
#3	23.84447	4.936283	4.839214	4.798167	4.836748	4.828026	4.949523

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV06 Acquired: 11/14/2024 19:03:05 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.685086	4.826857	4.986644
Stddev	.012379	.029011	.015648
%RSD	.2642246	.6010429	.3137988
#1	4.673172	4.855561	4.982011
#2	4.697883	4.827464	5.004086
#3	4.684204	4.797547	4.973836

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2645.412	59285.85	12933.88	1883.818	4157.429
Stddev	8.863	174.93	55.73	7.477	3.137
%RSD	.3350318	.2950617	.4308995	.3968803	.0754650
#1	2652.992	59412.10	12944.85	1887.440	4161.003
#2	2647.576	59359.28	12873.48	1888.793	4155.132
#3	2635.667	59086.17	12983.31	1875.220	4156.151

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB06 Acquired: 11/14/2024 19:07:16 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004898	-.001381	-.000179	-.001858	.0001344	.0001972	-.000003
Stddev	.0011988	.000696	.000978	.001806	.0009894	.0022844	.000069
%RSD	244.7342	50.41647	546.4810	97.15562	736.4172	1158.618	2197.793
#1	-.000602	-.000960	-.000945	-.003795	-.000026	-.000024	-.000067
#2	.000298	-.000998	.000922	-.001558	-.000765	-.001969	-.000012
#3	.001773	-.002185	-.000514	-.000222	.001194	.002584	.000070

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000466	-.000039	.0116620	-.000212	.0001630	-.000060	.0022306
Stddev	.0000614	.000050	.0075414	.000195	.0000535	.000194	.0010711
%RSD	131.7180	128.5614	64.66622	91.95815	32.81948	322.7970	48.01745
#1	-.000000	-.000094	.0201853	-.000094	.0001776	-.000177	.0021879
#2	.000116	-.000024	.0089458	-.000105	.0002076	.000164	.0033225
#3	.000024	.000002	.0058550	-.000437	.0001037	-.000167	.0011816

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000622	.0052607	.0001345	-.000129	-.249474	.0004923	.0006838
Stddev	.0000475	.0016797	.0001941	.000152	.012531	.0002773	.0001563
%RSD	76.37918	31.92894	144.3485	118.4798	5.022849	56.32671	22.85252
#1	.0000599	.0068171	-.000024	.000022	-.263277	.0003051	.0007008
#2	.0001107	.0034802	.000077	-.000126	-.246330	.0003610	.0008310
#3	.0000158	.0054849	.000351	-.000283	-.238814	.0008109	.0005198

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.066983	.0033812	.0000012	.0029739	.0000912	.0050167	.0002904
Stddev	.018473	.0005732	.0001574	.0004609	.0003371	.0030120	.0018852
%RSD	27.57835	16.95319	13430.58	15.49715	369.4615	60.03873	649.1109
#1	-.066892	.0029565	-.000157	.0025550	.0004102	.0031147	-.001582
#2	-.048556	.0040332	.000003	.0028992	-.000261	.0034461	.000265
#3	-.085501	.0031539	.000157	.0034676	.000125	.0084894	.002188

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB06 Acquired: 11/14/2024 19:07:16 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0027895	-.000535	.0000124
Stddev	.0009730	.000384	.0000278
%RSD	34.88137	71.71603	223.9562
#1	.0033383	-.000244	.0000359
#2	.0016661	-.000392	.0000197
#3	.0033641	-.000970	-.000018

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2767.528	63507.72	13235.80	1960.929	4747.008
Stddev	6.615	179.00	10.31	15.060	6.174
%RSD	.2390061	.2818622	.0779201	.7679936	.1300537
#1	2766.123	63481.45	13242.79	1966.730	4739.887
#2	2774.732	63698.41	13240.66	1972.226	4750.868
#3	2761.729	63343.31	13223.96	1943.831	4750.268

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-10 Acquired: 11/14/2024 19:11:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000675	-.007285	.0284293	-.000761	.0068219	.0119192
Stddev	.002205	.002667	.0014253	.002016	.0008473	.0060072
%RSD	326.4618	36.60865	5.013667	265.0376	12.42062	50.39964
#1	.001319	-.004717	.0295678	.000938	.0059468	.0171755
#2	-.003044	-.007097	.0288894	-.002989	.0076384	.0132108
#3	-.000301	-.010040	.0268307	-.000231	.0068804	.0053712

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1553567	-.000120	.0006383	288.4599	.0045126	-.000147
Stddev	.0009414	.000036	.0000133	1.3037	.0001639	.000213
%RSD	.6059682	29.73360	2.081731	.4519464	3.633003	145.4205
#1	.1564136	-.000121	.0006484	289.3809	.0046063	-.000111
#2	.1550483	-.000156	.0006433	289.0306	.0046081	-.000376
#3	.1546081	-.000084	.0006233	286.9682	.0043233	.000047

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163383	.0764369	.0293051	7.643848	.0024213	-.000611
Stddev	.0001690	.0040613	.0001959	.048811	.0002868	.000154
%RSD	1.034251	5.313243	.6684232	.6385622	11.84344	25.18032
#1	.0164203	.0766010	.0294939	7.692414	.0025906	-.000703
#2	.0161440	.0722960	.0291029	7.644335	.0020902	-.000697
#3	.0164506	.0804136	.0293186	7.594796	.0025831	-.000433

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.63346	.0050251	.3135310	6.533266	.0697045	.0044725
Stddev	.05590	.0010038	.0008493	.008975	.0001274	.0001226
%RSD	.1614082	19.97640	.2708682	.1373747	.1827905	2.740152
#1	34.56902	.0061417	.3136410	6.523172	.0698215	.0043577
#2	34.66252	.0041972	.3143199	6.536281	.0695687	.0044582
#3	34.66885	.0047365	.3126321	6.540346	.0697232	.0046015

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-10 Acquired: 11/14/2024 19:11:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006150	-.004870	6.546345	.0976982	F 112.9625	-.022737
Stddev	.001156	.000493	.014075	.0007428	1.3065	.000149
%RSD	18.79453	10.12789	.2150099	.7603215	1.156592	.6568776
#1	-.005306	-.004359	6.535546	.0982839	112.7171	-.022907
#2	-.005677	-.004907	6.541226	.0979480	111.7961	-.022625
#3	-.007468	-.005343	6.562264	.0968627	114.3743	-.022680

Elem	Sr4077
Units	ppm
Avg	1.167732
Stddev	.003655
%RSD	.3129799
#1	1.167484
#2	1.171505
#3	1.164208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2407.868	55743.06	12912.53	1665.081	3912.432
Stddev	25.950	93.42	55.50	3.477	43.722
%RSD	1.077704	.1675892	.4298043	.2087890	1.117524
#1	2414.032	55797.85	12881.13	1668.170	3922.734
#2	2430.180	55635.19	12879.84	1661.316	3950.084
#3	2379.391	55796.14	12976.61	1665.758	3864.479

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15 Acquired: 11/14/2024 19:16:08 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001933	-.009558	.0256600	.0019118	.0053964	.0589247
Stddev	.001751	.002326	.0006894	.0014517	.0014162	.0038206
%RSD	90.59993	24.33216	2.686556	75.93285	26.24292	6.483875
#1	-.002441	-.008167	.0254418	.0003186	.0063241	.0632964
#2	.000016	-.008265	.0251062	.0031597	.0037663	.0562260
#3	-.003374	-.012243	.0264321	.0022570	.0060986	.0572516

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1532017	-.000142	.0006297	334.1873	.0025531	-.000623
Stddev	.0012869	.000029	.0000373	1.5967	.0002594	.000117
%RSD	.8399872	20.28244	5.929665	.4777831	10.16065	18.85944
#1	.1545862	-.000109	.0006065	335.8092	.0022658	-.000626
#2	.1520421	-.000163	.0006098	332.6171	.0027702	-.000504
#3	.1529767	-.000153	.0006727	334.1355	.0026233	-.000738

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208241	.1924781	.0433505	13.82130	.0077084	-.000781
Stddev	.0001746	.0008974	.0003648	.08682	.0001964	.000190
%RSD	.8384294	.4662284	.8413932	.6281752	2.548149	24.30752
#1	.0206997	.1935138	.0435362	13.91524	.0078309	-.000832
#2	.0207490	.1919870	.0429303	13.80466	.0078125	-.000571
#3	.0210237	.1919334	.0435849	13.74400	.0074818	-.000940

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.25715	.0042971	.1102145	6.655439	.0853202	.0086213
Stddev	.53952	.0009120	.0013808	.063988	.0008194	.0000724
%RSD	1.374315	21.22476	1.252785	.9614402	.9603259	.8398902
#1	39.06247	.0033420	.1094473	6.619998	.0861321	.0086996
#2	38.84199	.0043903	.1093877	6.617012	.0853350	.0085568
#3	39.86699	.0051590	.1118085	6.729306	.0844936	.0086073

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15 Acquired: 11/14/2024 19:16:08 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003315	-.002816	6.515511	.1200243	F 146.8813	-.048895
Stddev	.000329	.001034	.069897	.0034631	1.0855	.000097
%RSD	9.937554	36.71172	1.072776	2.885324	.7390076	.1991916
#1	-.003695	-.003467	6.466996	.1233904	146.1534	-.049005
#2	-.003143	-.003356	6.483910	.1164718	146.3617	-.048819
#3	-.003108	-.001624	6.595629	.1202108	148.1289	-.048862

Elem	Sr4077
Units	ppm
Avg	1.573659
Stddev	.017165
%RSD	1.090761
#1	1.584139
#2	1.582987
#3	1.553850

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2353.644	54263.21	12667.97	1616.134	3829.777
Stddev	4.606	442.44	88.44	9.732	9.735
%RSD	.1957101	.8153541	.6981246	.6021517	.2541864
#1	2358.960	54418.26	12570.88	1618.937	3839.463
#2	2350.845	54607.26	12689.14	1624.157	3829.872
#3	2351.126	53764.12	12743.91	1605.309	3819.995

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15DUP Acquired: 11/14/2024 19:20:41 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002814	-.007538	.0265463	.0032712	.0065352	.0582189
Stddev	.003852	.000885	.0007394	.0024221	.0010374	.0015604
%RSD	136.9139	11.73747	2.785374	74.04318	15.87350	2.680303
#1	-.000055	-.008476	.0273456	.0005012	.0062258	.0594743
#2	-.007215	-.006718	.0258868	.0043220	.0076921	.0564718
#3	-.001171	-.007422	.0264065	.0049904	.0056877	.0587107

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1531537	-.000112	.0007228	333.6213	.0028213	-.000531
Stddev	.0019129	.000008	.0000595	.4512	.0000902	.000240
%RSD	1.249016	7.578932	8.237962	.1352460	3.198514	45.25610
#1	.1535861	-.000103	.0006541	333.2890	.0029168	-.000764
#2	.1548135	-.000111	.0007550	333.4400	.0028097	-.000546
#3	.1510616	-.000120	.0007593	334.1350	.0027374	-.000284

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211984	.1904134	.0434993	13.67933	.0076120	-.000584
Stddev	.0004794	.0053297	.0002732	.05244	.0005579	.000187
%RSD	2.261390	2.799009	.6281057	.3833853	7.328506	32.07913
#1	.0216541	.1849410	.0432330	13.70465	.0073411	-.000511
#2	.0212428	.1955879	.0437790	13.71430	.0082536	-.000444
#3	.0206984	.1907112	.0434859	13.61903	.0072413	-.000797

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.07176	.0040463	.1084778	6.627059	.0853081	.0085537
Stddev	.16832	.0003990	.0003255	.029924	.0005729	.0001935
%RSD	.4308048	9.860083	.3000633	.4515403	.6715482	2.261829
#1	39.09050	.0042254	.1084390	6.629873	.0855809	.0083850
#2	39.22993	.0035892	.1081735	6.655476	.0856937	.0087649
#3	38.89485	.0043244	.1088210	6.595828	.0846498	.0085114

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15DUP Acquired: 11/14/2024 19:20:41 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003346	-.003346	6.427119	.1180302	F 147.9627	-.049306
Stddev	.000629	.000336	.036037	.0008179	.1637	.000917
%RSD	18.78704	10.03919	.5607047	.6929221	.1106349	1.859588
#1	-.004042	-.003693	6.387301	.1171605	147.7995	-.049316
#2	-.003179	-.003322	6.457496	.1187837	148.1269	-.048384
#3	-.002818	-.003023	6.436560	.1181465	147.9616	-.050217

Elem	Sr4077
Units	ppm
Avg	1.559537
Stddev	.020530
%RSD	1.316405
#1	1.564235
#2	1.577311
#3	1.537066

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2343.401	55044.17	12737.88	1640.977	3811.596
Stddev	6.240	78.10	107.89	4.824	9.619
%RSD	.2662994	.1418892	.8469653	.2939944	.2523714
#1	2346.318	55132.43	12676.69	1639.026	3813.306
#2	2347.648	55016.07	12674.50	1637.433	3820.245
#3	2336.236	54984.00	12862.45	1646.471	3801.236

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15LX5 Acquired: 11/14/2024 19:25:14 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000626	-.001723	.0045930	-.000493	.0008630	-.007106
Stddev	.001977	.002052	.0011107	.000861	.0006214	.003982
%RSD	315.8920	119.1291	24.18284	174.4563	72.00516	56.03596
#1	-.001532	-.002709	.0045192	.000227	.0003338	-.006755
#2	.001642	.000636	.0057388	-.000261	.0007080	-.003311
#3	-.001987	-.003095	.0035210	-.001446	.0015473	-.011252

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0316295	-.000005	.0001195	70.62874	.0002509	-.000003
Stddev	.0004054	.000022	.0000531	.39166	.0001494	.000171
%RSD	1.281734	419.3142	44.46202	.5545339	59.55194	6299.444
#1	.0311763	.000010	.0000845	70.34705	.0003107	.000183
#2	.0319576	-.000030	.0001807	71.07599	.0000809	-.000038
#3	.0317547	.000005	.0000934	70.46318	.0003612	-.000153

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043233	.0436615	.0093872	2.920055	.0019099	-.000484
Stddev	.0003597	.0030771	.0002299	.028870	.0002396	.000069
%RSD	8.321067	7.047529	2.448617	.9886772	12.54629	14.22263
#1	.0043244	.0410730	.0094331	2.892511	.0021643	-.000458
#2	.0039630	.0428479	.0095906	2.950090	.0016885	-.000433
#3	.0046825	.0470636	.0091378	2.917564	.0018770	-.000562

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.958910	.0009763	.0221951	1.260058	.0197210	.0016782
Stddev	.041791	.0006992	.0002701	.015919	.0008551	.0001878
%RSD	.6005413	71.62009	1.217000	1.263324	4.335901	11.18780
#1	6.986048	.0011769	.0222744	1.241914	.0187350	.0016291
#2	6.979898	.0001987	.0224166	1.266578	.0202585	.0018856
#3	6.910785	.0015534	.0218942	1.271682	.0201696	.0015198

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15LX5 Acquired: 11/14/2024 19:25:14 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065230	-.000517	1.280937	.0238219	F 30.10694	-.010955
Stddev	.0000218	.000308	.005972	.0022375	.20832	.000159
%RSD	.3347524	59.55454	.4661888	9.392671	.6919393	1.450696
#1	.0065106	-.000872	1.281211	.0214180	30.34740	-.010948
#2	.0065102	-.000353	1.286767	.0258439	29.98089	-.010799
#3	.0065482	-.000326	1.274834	.0242037	29.99253	-.011116

Elem	Sr4077
Units	ppm
Avg	.3295326
Stddev	.0018586
%RSD	.5640236
#1	.3298161
#2	.3312332
#3	.3275485

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2621.336	59925.32	13213.65	1848.953	4333.358
Stddev	12.783	107.64	57.15	16.216	14.156
%RSD	.4876453	.1796235	.4324748	.8770638	.3266759
#1	2631.789	59890.02	13235.59	1852.099	4342.473
#2	2625.135	59839.76	13148.79	1831.394	4340.551
#3	2607.085	60046.17	13256.58	1863.366	4317.050

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15MS Acquired: 11/14/2024 19:29:33 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7918398	1.738134	.9024207	1.853295	.7802304	1.966195
Stddev	.0055953	.056897	.0030724	.010579	.0019349	.024858
%RSD	.7066193	3.273476	.3404571	.5708389	.2479951	1.264277
#1	.7886363	1.673016	.8988803	1.841517	.7782154	1.939719
#2	.7885824	1.763141	.9039948	1.856376	.7804022	1.969830
#3	.7983006	1.778245	.9043871	1.861991	.7820738	1.989035

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3446446	.1876970	.1796493	329.6725	.3769091	.1829600
Stddev	.0024820	.0006497	.0006411	2.0728	.0008594	.0009810
%RSD	.7201742	.3461625	.3568632	.6287507	.2280219	.5361736
#1	.3417880	.1871888	.1789173	327.3637	.3763996	.1818379
#2	.3462744	.1874732	.1801111	330.2803	.3764262	.1836551
#3	.3458713	.1884291	.1799194	331.3735	.3779013	.1833869

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2976428	3.022863	.2315062	15.21665	.4628255	.0714326
Stddev	.0016802	.010058	.0012054	.09424	.0016859	.0001016
%RSD	.5645113	.3327152	.5206612	.6192934	.3642596	.1422743
#1	.2957618	3.011303	.2301543	15.13293	.4609313	.0715464
#2	.2981717	3.027674	.2318957	15.19831	.4641616	.0714008
#3	.2989950	3.029611	.2324687	15.31871	.4633835	.0713507

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.66878	.2907928	.3031237	16.22704	.3437562	.4107965
Stddev	.15893	.0040100	.0013457	.07148	.0009815	.0015208
%RSD	.3907906	1.378994	.4439508	.4405023	.2855341	.3701948
#1	40.48671	.2863162	.3018569	16.18558	.3430113	.4092271
#2	40.77970	.2920063	.3045365	16.30958	.3433889	.4108988
#3	40.73994	.2940559	.3029779	16.18597	.3448684	.4122634

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15MS Acquired: 11/14/2024 19:29:33 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6422520	.1882239	6.844135	5.949127	F 145.1073	.1555016
Stddev	.0022996	.0015922	.029247	.079014	1.2564	.0015975
%RSD	.3580577	.8458785	.4273249	1.328165	.8658616	1.027289
#1	.6396256	.1864574	6.810981	5.858207	143.6594	.1536679
#2	.6439045	.1895483	6.866278	6.001182	145.9112	.1565918
#3	.6432258	.1886660	6.855147	5.987990	145.7512	.1562452

Elem	Sr4077
Units	ppm
Avg	1.728603
Stddev	.017707
%RSD	1.024332
#1	1.710749
#2	1.728901
#3	1.746159

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2414.117	56243.48	12623.97	1716.792	3878.940
Stddev	6.612	152.35	69.58	11.962	9.618
%RSD	.2739090	.2708768	.5511827	.6967420	.2479571
#1	2420.861	56419.35	12701.31	1728.852	3889.711
#2	2413.847	56159.08	12604.18	1704.931	3871.209
#3	2407.644	56152.00	12566.44	1716.592	3875.899

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15MSD Acquired: 11/14/2024 19:33:48 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8289168	1.850143	.9367740	1.964274	.8107441	2.029459
Stddev	.0043988	.022622	.0013952	.001601	.0020951	.003536
%RSD	.5306735	1.222730	.1489386	.0815218	.2584143	.1742511
#1	.8274152	1.866903	.9381297	1.964918	.8131268	2.029044
#2	.8338698	1.859115	.9353423	1.965454	.8091903	2.026148
#3	.8254653	1.824411	.9368499	1.962451	.8099153	2.033184

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3521609	.1919649	.1869676	334.3519	.3902776	.1898662
Stddev	.0009530	.0010541	.0001244	1.5070	.0034548	.0001005
%RSD	.2706033	.5491149	.0665604	.4507305	.8852174	.0529197
#1	.3510930	.1921093	.1871106	334.9346	.3886550	.1897561
#2	.3529246	.1908461	.1868846	332.6405	.3879329	.1899529
#3	.3524651	.1929394	.1869074	335.4805	.3942451	.1898895

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3108628	3.151548	.2385436	15.47525	.4795325	.0741917
Stddev	.0001692	.038722	.0013983	.06849	.0009217	.0003145
%RSD	.0544286	1.228655	.5861630	.4425462	.1921992	.4239745
#1	.3109185	3.111379	.2369388	15.40649	.4805825	.0740883
#2	.3109971	3.154626	.2391927	15.47580	.4788575	.0739418
#3	.3106727	3.188639	.2394994	15.54346	.4791574	.0745449

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.89684	.3002971	.3146518	16.81438	.3493525	.4272796
Stddev	.30166	.0011373	.0026036	.11404	.0020971	.0010006
%RSD	.7199960	.3787375	.8274464	.6782356	.6002667	.2341792
#1	41.54927	.3012145	.3125416	16.68318	.3491464	.4273712
#2	42.05076	.2990246	.3138525	16.88980	.3473661	.4282312
#3	42.09048	.3006522	.3175613	16.87015	.3515450	.4262363

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15MSD Acquired: 11/14/2024 19:33:48 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6627295	.1924736	7.018165	6.211078	F 148.6303	.1614399
Stddev	.0036288	.0008684	.058730	.019598	.6641	.0011261
%RSD	.5475539	.4512055	.8368238	.3155320	.4467941	.6975506
#1	.6650819	.1914711	6.950404	6.224503	149.1674	.1602058
#2	.6645563	.1929549	7.049687	6.220143	148.8357	.1624118
#3	.6585503	.1929948	7.054403	6.188589	147.8878	.1617020

Elem	Sr4077
Units	ppm
Avg	1.754188
Stddev	.012285
%RSD	.7003102
#1	1.750103
#2	1.744467
#3	1.767995

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2335.249	55065.84	12526.76	1662.338	3775.457
Stddev	2.821	413.67	38.26	17.489	4.208
%RSD	.1208036	.7512357	.3054553	1.052076	.1114587
#1	2338.486	55503.75	12550.94	1681.211	3779.094
#2	2333.949	55012.14	12546.70	1659.123	3776.429
#3	2333.313	54681.64	12482.65	1646.679	3770.848

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15A Acquired: 11/14/2024 19:38:03 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8249944	1.834646	.9194041	1.959432	.8052042	2.037155
Stddev	.0024344	.015481	.0015702	.010426	.0031998	.014702
%RSD	.2950870	.8438378	.1707796	.5320970	.3973844	.7216888
#1	.8225184	1.827609	.9177497	1.962869	.8074024	2.038606
#2	.8273850	1.823933	.9195888	1.947722	.8015333	2.021782
#3	.8250799	1.852396	.9208737	1.967706	.8066770	2.051078

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3424096	.1896683	.1845012	331.1626	.3911715	.1871137
Stddev	.0008569	.0012316	.0007668	.4664	.0015089	.0004083
%RSD	.2502714	.6493540	.4155913	.1408299	.3857499	.2181907
#1	.3416880	.1886088	.1838027	331.5956	.3911495	.1871015
#2	.3433568	.1893765	.1843792	330.6688	.3896736	.1867117
#3	.3421840	.1910196	.1853216	331.2232	.3926913	.1875280

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3083937	3.106397	.2321286	15.63619	.4727406	.0736536
Stddev	.0007156	.005121	.0008137	.08514	.0013158	.0004370
%RSD	.2320556	.1648402	.3505262	.5445224	.2783252	.5932576
#1	.3083476	3.111486	.2327842	15.66835	.4727973	.0736761
#2	.3077022	3.106458	.2323837	15.70057	.4713975	.0740789
#3	.3091313	3.101246	.2312180	15.53965	.4740272	.0732059

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.04042	.2988611	.3121393	16.76771	.3431824	.4247917
Stddev	.16577	.0017884	.0008950	.07819	.0023072	.0009353
%RSD	.4039125	.5984175	.2867358	.4662966	.6722845	.2201720
#1	40.98500	.3005275	.3131447	16.74793	.3405681	.4252294
#2	41.22679	.2990843	.3114294	16.85389	.3440457	.4237178
#3	40.90945	.2969716	.3118439	16.70131	.3449335	.4254278

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4722-15A Acquired: 11/14/2024 19:38:03 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6532969	.1891511	7.113175	6.107990	F 147.1563	.1600384
Stddev	.0008916	.0009709	.027783	.033342	.7304	.0004232
%RSD	.1364767	.5132808	.3905897	.5458735	.4963681	.2644095
#1	.6525092	.1885964	7.135751	6.084175	146.7348	.1595530
#2	.6531167	.1902721	7.121628	6.093700	146.7345	.1602326
#3	.6542648	.1885847	7.082147	6.146095	147.9998	.1603295

Elem	Sr4077
Units	ppm
Avg	1.737836
Stddev	.008644
%RSD	.4973926
#1	1.742725
#2	1.742928
#3	1.727855

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2317.166	54640.65	12549.31	1615.124	3772.688
Stddev	8.243	200.76	30.73	13.719	8.696
%RSD	.3557299	.3674227	.2448579	.8493853	.2304994
#1	2310.882	54592.11	12559.02	1605.755	3767.977
#2	2326.499	54468.61	12514.90	1608.746	3782.723
#3	2314.118	54861.24	12574.01	1630.870	3767.364

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03 Acquired: 11/14/2024 19:42:18 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006158	-.010215	-.000391	.0047725	.0013452	.1091433
Stddev	.001776	.002342	.000827	.0019488	.0004285	.0051376
%RSD	28.84071	22.92703	211.6937	40.83286	31.85314	4.707247
#1	-.004178	-.012918	.000354	.0055121	.0008741	.1080733
#2	-.007609	-.008772	-.001281	.0062432	.0014498	.1046249
#3	-.006687	-.008957	-.000245	.0025622	.0017117	.1147316

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0380881	-.000119	-.000210	181.0051	.0038178	.0002922
Stddev	.0002833	.000017	.000051	1.1817	.0002806	.0000613
%RSD	.7437599	14.55774	24.38890	.6528619	7.349079	20.98516
#1	.0377767	-.000128	-.000196	179.7244	.0036917	.0002267
#2	.0383305	-.000099	-.000167	182.0533	.0036224	.0003482
#3	.0381571	-.000130	-.000267	181.2375	.0041393	.0003017

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073408	.0801421	.0062301	.5609730	.0056549	-.000439
Stddev	.0004350	.0015611	.0000809	.0162986	.0000874	.000299
%RSD	5.925705	1.947870	1.299128	2.905419	1.545523	68.21090
#1	.0070292	.0812249	.0062733	.5524740	.0057457	-.000706
#2	.0078377	.0783527	.0062804	.5797645	.0056475	-.000494
#3	.0071554	.0808487	.0061368	.5506805	.0055714	-.000116

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	462.1472	.0166575	.0050069	4.266517	.0297574	.0044194
Stddev	3.3413	.0004459	.0005281	.023422	.0003170	.0001293
%RSD	.7230026	2.676892	10.54703	.5489697	1.065421	2.924896
#1	466.0051	.0171705	.0055802	4.291474	.0301080	.0043699
#2	460.2664	.0163633	.0045403	4.245014	.0296731	.0045661
#3	460.1702	.0164386	.0049003	4.263064	.0294910	.0043223

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03 Acquired: 11/14/2024 19:42:18 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005130	-.000942	2.461661	.0095212	F 11.88309	-.025068
Stddev	.000838	.000354	.014952	.0009145	.07204	.000236
%RSD	16.33026	37.59788	.6074092	9.604615	.6062065	.9412759
#1	-.005193	-.001278	2.477381	.0092599	11.96512	-.025236
#2	-.004263	-.000975	2.459982	.0105378	11.83016	-.024798
#3	-.005935	-.000572	2.447618	.0087657	11.85397	-.025169

Elem	Sr4077
Units	ppm
Avg	.7383555
Stddev	.0057560
%RSD	.7795712
#1	.7317151
#2	.7414285
#3	.7419227

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2237.780	51859.37	12671.76	1540.879	3525.140
Stddev	9.797	390.04	51.29	17.251	14.519
%RSD	.4378146	.7521018	.4047429	1.119561	.4118686
#1	2228.168	51409.14	12728.94	1522.511	3508.820
#2	2237.418	52094.46	12629.82	1543.386	3529.976
#3	2247.753	52074.51	12656.52	1556.739	3536.623

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03DUP Acquired: 11/14/2024 19:46:43 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007595	-.009357	-.000734	.0040789	.0023141	.1077311
Stddev	.001736	.002130	.001391	.0011069	.0028044	.0102857
%RSD	22.85944	22.75865	189.4760	27.13767	121.1873	9.547555
#1	-.006582	-.011307	-.000467	.0051288	.0048293	.0983455
#2	-.009599	-.009681	.000504	.0041852	-.000710	.1061209
#3	-.006603	-.007084	-.002239	.0029227	.002823	.1187269

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0380529	-.000132	-.000166	181.5010	.0036282	.0002325
Stddev	.0006350	.000033	.000064	1.5684	.0004707	.0002886
%RSD	1.668630	25.04574	38.76068	.8641367	12.97434	124.1494
#1	.0373757	-.000170	-.000109	179.8947	.0040288	.0001167
#2	.0386348	-.000117	-.000153	181.5798	.0031097	.0000198
#3	.0381482	-.000110	-.000236	183.0285	.0037461	.0005610

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074543	.0789895	.0058724	.5570359	.0054659	-.000531
Stddev	.0001097	.0024016	.0001165	.0030545	.0003972	.000231
%RSD	1.471092	3.040387	1.984054	.5483548	7.267314	43.42789
#1	.0075803	.0792428	.0060060	.5557330	.0057935	-.000774
#2	.0073805	.0764713	.0057917	.5605259	.0050241	-.000315
#3	.0074020	.0812543	.0058196	.5548490	.0055800	-.000505

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	464.3428	.0170244	.0047198	4.265788	.0293464	.0043682
Stddev	3.5959	.0011217	.0002523	.023204	.0004898	.0003534
%RSD	.7743996	6.588564	5.344656	.5439637	1.669124	8.090805
#1	460.6460	.0159233	.0050030	4.240112	.0290522	.0039609
#2	464.5538	.0169843	.0046369	4.285260	.0290752	.0045938
#3	467.8285	.0181656	.0045194	4.271990	.0299119	.0045498

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03DUP Acquired: 11/14/2024 19:46:43 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005119	.0007170	2.452982	.0118168	F 11.76650	-.025046
Stddev	.000488	.0023726	.010500	.0033341	.02694	.000300
%RSD	9.536200	330.9154	.4280474	28.21479	.2289245	1.196550
#1	-.005578	.0034385	2.443668	.0091605	11.79673	-.025309
#2	-.004607	-.000916	2.464361	.0107316	11.75772	-.024719
#3	-.005174	-.000371	2.450919	.0155583	11.74504	-.025109

Elem	Sr4077
Units	ppm
Avg	.7450060
Stddev	.0043027
%RSD	.5775342
#1	.7411210
#2	.7442665
#3	.7496305

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2236.227	52087.93	12629.75	1533.038	3525.876
Stddev	9.876	107.13	67.16	3.968	13.008
%RSD	.4416364	.2056627	.5317887	.2588177	.3689346
#1	2225.965	52122.75	12670.03	1533.215	3511.273
#2	2237.049	52173.32	12667.00	1536.914	3530.133
#3	2245.666	51967.73	12552.21	1528.984	3536.223

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03LX5 Acquired: 11/14/2024 19:51:08 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001464	-.002385	-.000508	.0014434	.0009177	.0131789	.0075290
Stddev	.002499	.000888	.000121	.0005761	.0013896	.0025898	.0003568
%RSD	170.7176	37.24322	23.80071	39.90864	151.4185	19.65116	4.739376
#1	.000723	-.001534	-.000605	.0009947	.0018540	.0151585	.0071855
#2	-.000927	-.002314	-.000373	.0012426	.0015782	.0141303	.0078978
#3	-.004188	-.003307	-.000545	.0020930	-.000679	.0102480	.0075037

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000017	-.000027	36.91291	.0005416	.0000746	.0014022	.0152667
Stddev	.000021	.000071	.29084	.0003864	.0000787	.0002156	.0019786
%RSD	119.4160	268.6298	.7878966	71.35590	105.5823	15.37637	12.96028
#1	-.000041	-.000097	37.03200	.0003226	.0000833	.0012230	.0175512
#2	-.000007	-.000028	37.12530	.0009878	.0001486	.0013421	.0141000
#3	-.000003	.000046	36.58143	.0003144	-.000008	.0016415	.0141488

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014819	.1244208	.0013015	-.000297	84.67419	.0031790	.0013236
Stddev	.0002766	.0099077	.0001700	.000292	.73637	.0015323	.0002142
%RSD	18.66261	7.963035	13.05751	98.48702	.8696478	48.19861	16.18276
#1	.0017134	.1322119	.0011362	.000040	84.30202	.0019815	.0012687
#2	.0011757	.1132702	.0014758	-.000487	85.52235	.0049057	.0015599
#3	.0015567	.1277804	.0012925	-.000443	84.19818	.0026498	.0011422

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7689472	.0058998	.0007968	.0006760	-.000175	.4563639	.0015590
Stddev	.0103784	.0003538	.0001654	.0002787	.000296	.0030752	.0031878
%RSD	1.349692	5.996276	20.75855	41.23508	169.7073	.6738439	204.4789
#1	.7647070	.0062837	.0009610	.0008437	-.000474	.4543751	.0037472
#2	.7613603	.0058288	.0006302	.0008300	-.000169	.4548107	.0030282
#3	.7807744	.0055869	.0007991	.0003542	.000119	.4599059	-.002098

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03LX5 Acquired: 11/14/2024 19:51:08 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.283748	-.004947	.1475499
Stddev	.008045	.000119	.0014540
%RSD	.3522819	2.400525	.9854461
#1	2.290694	-.004866	.1479725
#2	2.285617	-.005083	.1487458
#3	2.274932	-.004891	.1459314

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2600.650	57563.33	12993.55	1789.841	4187.066
Stddev	17.118	165.95	111.52	9.013	20.787
%RSD	.6582305	.2882865	.8582578	.5035818	.4964589
#1	2583.937	57532.37	12897.26	1785.191	4164.412
#2	2599.867	57415.04	12967.67	1784.103	4191.521
#3	2618.147	57742.58	13115.74	1800.230	4205.264

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV07 Acquired: 11/14/2024 19:55:27 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.842609	4.991929	4.851436	4.848830	4.850332	9.685220	9.804213
Stddev	.012686	.017836	.003889	.004076	.002833	.016600	.088161
%RSD	.2619655	.3572965	.0801576	.0840595	.0584144	.1713988	.8992181
#1	4.847463	5.012381	4.855775	4.853323	4.848681	9.676176	9.706080
#2	4.852151	4.983805	4.850265	4.845370	4.853603	9.675105	9.829833
#3	4.828212	4.979601	4.848266	4.847797	4.848711	9.704378	9.876727

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2473759	2.418741	24.28188	.9804254	2.415295	1.226817	4.816873
Stddev	.0006305	.000852	.04787	.0039526	.003078	.001209	.017088
%RSD	.2548891	.0352313	.1971558	.4031514	.1274535	.0985756	.3547611
#1	.2466519	2.419716	24.28983	.9758616	2.418367	1.225499	4.797334
#2	.2478045	2.418141	24.23053	.9827498	2.415307	1.227875	4.824260
#3	.2476712	2.418366	24.32529	.9826648	2.412211	1.227079	4.829025

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.418625	23.81907	2.423098	1.218031	25.25929	2.429444	2.454253
Stddev	.003846	.10900	.001019	.003266	.06372	.006125	.005990
%RSD	.1590045	.4576254	.0420587	.2681572	.2522513	.2521128	.2440517
#1	2.414250	23.84402	2.424252	1.214267	25.19403	2.430345	2.451720
#2	2.421470	23.69976	2.422322	1.219712	25.32135	2.422918	2.449946
#3	2.420156	23.91344	2.422719	1.220115	25.26248	2.435068	2.461093

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.01757	4.911648	4.901657	4.851784	4.813784	4.769680	5.024501
Stddev	.08810	.007564	.002116	.002925	.003507	.037746	.005965
%RSD	.3668034	.1539995	.0431775	.0602786	.0728498	.7913747	.1187173
#1	23.91787	4.902975	4.902481	4.850292	4.810148	4.732483	5.031375
#2	24.04993	4.915097	4.903238	4.855154	4.817145	4.768605	5.020685
#3	24.08491	4.916873	4.899252	4.849906	4.814061	4.807952	5.021444

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV07 Acquired: 11/14/2024 19:55:27 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.737101	4.815410	4.863493
Stddev	.013601	.004354	.097884
%RSD	.2871100	.0904106	2.012634
#1	4.751043	4.810597	4.777805
#2	4.736392	4.819074	4.842504
#3	4.723869	4.816559	4.970169

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2571.639	58680.03	12977.33	1823.035	4072.579
Stddev	4.078	87.29	24.33	13.323	7.945
%RSD	.1585596	.1487511	.1875057	.7308011	.1950926
#1	2568.393	58690.16	12951.88	1810.369	4063.555
#2	2570.308	58761.81	13000.37	1836.929	4075.654
#3	2576.215	58588.12	12979.72	1821.806	4078.527

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB07 Acquired: 11/14/2024 19:59:39 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000641	-.000787	.0004233	.0005873	-.000695	-.003602	-.001000
Stddev	.001469	.000829	.0010439	.0001778	.001147	.001958	.000272
%RSD	229.3200	105.2582	246.5817	30.26735	164.9122	54.35050	27.17605
#1	-.000958	.000128	-.000382	.0005014	.000068	-.004376	-.000730
#2	.000961	-.001486	.001603	.0007917	-.002014	-.001376	-.001273
#3	-.001926	-.001004	.000050	.0004688	-.000140	-.005054	-.000997

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000150	.0000111	.0143400	.0001942	.0000535	-.000167	.0008503
Stddev	.0000154	.0000696	.0055489	.0001375	.0000837	.000061	.0038637
%RSD	103.1093	625.0327	38.69513	70.82693	156.4611	36.43786	454.3643
#1	.0000265	-.000030	.0207448	.0002829	.0000709	-.000236	.0047644
#2	-.000003	-.000028	.0112940	.0002639	-.000038	-.000120	-.002961
#3	.000021	.000092	.0109813	.0000358	.000127	-.000146	.000747

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000020	.0040200	.0002453	-.000073	-.190181	-.000147	.0009064
Stddev	.0001178	.0038054	.0000608	.000045	.007696	.000638	.0002063
%RSD	5854.001	94.66111	24.78407	62.51987	4.046550	432.8241	22.75621
#1	.0001076	.0007816	.0001878	-.000099	-.196765	-.000717	.0011016
#2	-.000125	.0082113	.0003089	-.000098	-.192058	.000542	.0006906
#3	.000024	.0030671	.0002391	-.000020	-.181720	-.000267	.0009271

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.024597	.0036493	.0001286	.0027023	-.000141	.0048912	-.000476
Stddev	.006028	.0001025	.0000579	.0006779	.000255	.0026409	.002752
%RSD	24.50664	2.809690	45.00596	25.08550	181.5079	53.99244	577.7687
#1	-.030856	.0036119	.0001466	.0021314	.000153	.0050178	.001991
#2	-.024105	.0035707	.0001753	.0034515	-.000269	.0021892	-.003444
#3	-.018831	.0037653	.0000638	.0025239	-.000307	.0074664	.000024

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB07 Acquired: 11/14/2024 19:59:39 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0046865	-.000104	.0000734
Stddev	.0015141	.000525	.0001248
%RSD	32.30750	503.1174	169.9424
#1	.0045192	.000467	.0002168
#2	.0062773	-.000214	.0000146
#3	.0032630	-.000566	-.000011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2704.313	61504.49	13169.12	1874.375	4689.217
Stddev	5.228	193.67	18.45	6.117	5.938
%RSD	.1933279	.3148920	.1401100	.3263332	.1266246
#1	2700.849	61427.82	13148.75	1870.371	4682.679
#2	2710.326	61360.88	13173.89	1871.338	4694.274
#3	2701.762	61724.76	13184.71	1881.416	4690.699

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03MS Acquired: 11/14/2024 20:03:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8184497	1.709048	.8857886	1.972310	.7865521	2.046060
Stddev	.0068881	.010457	.0069516	.011635	.0039374	.007795
%RSD	.8416065	.6118613	.7847973	.5899310	.5005936	.3809952
#1	.8134510	1.697709	.8794647	1.960792	.7847110	2.051297
#2	.8263069	1.711122	.8932321	1.984059	.7910728	2.037101
#3	.8155912	1.718312	.8846689	1.972079	.7838724	2.049781

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2251506	.1868320	.1856048	179.6097	.3890926	.1878669
Stddev	.0012588	.0014902	.0011301	1.0180	.0060734	.0014046
%RSD	.5590954	.7975891	.6088961	.5667852	1.560925	.7476516
#1	.2265299	.1877760	.1846597	180.4887	.3917430	.1869933
#2	.2248582	.1876059	.1868566	179.8460	.3933904	.1894871
#3	.2240637	.1851141	.1852980	178.4943	.3821444	.1871203

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2862054	2.993722	.1883412	2.323604	.4701666	.0702433
Stddev	.0017308	.042424	.0006562	.008574	.0033740	.0005421
%RSD	.6047328	1.417112	.3484231	.3690139	.7176180	.7718010
#1	.2851280	3.019921	.1890002	2.332527	.4671701	.0707118
#2	.2882018	3.016470	.1876877	2.322859	.4738211	.0703687
#3	.2852863	2.944775	.1883356	2.315426	.4695085	.0696495

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	444.3215	.3048954	.2146455	14.61951	.2778842	.4075945
Stddev	8.5150	.0011702	.0012846	.13545	.0016975	.0026497
%RSD	1.916401	.3837996	.5984760	.9265237	.6108583	.6500826
#1	450.8595	.3056488	.2155127	14.72505	.2792181	.4056444
#2	447.4121	.3054901	.2152541	14.66671	.2784611	.4106113
#3	434.6928	.3035472	.2131697	14.46677	.2759735	.4065278

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03MS Acquired: 11/14/2024 20:03:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6424867	.1875316	3.148664	6.184158	F 11.58074	.1776799
Stddev	.0035680	.0017672	.027202	.043614	.05109	.0003737
%RSD	.5553372	.9423713	.8639327	.7052518	.4411565	.2102980
#1	.6401456	.1873272	3.159738	6.154023	11.53148	.1780445
#2	.6465932	.1893922	3.168582	6.234170	11.63348	.1776975
#3	.6407214	.1858755	3.117671	6.164282	11.57726	.1772978

Elem	Sr4077
Units	ppm
Avg	.9232223
Stddev	.0048652
%RSD	.5269795
#1	.9256726
#2	.9263753
#3	.9176192

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2251.773	52356.86	12522.87	1544.504	3550.927
Stddev	15.505	453.07	55.76	6.948	22.158
%RSD	.6885721	.8653410	.4452945	.4498422	.6240086
#1	2262.196	52069.03	12464.52	1537.183	3568.223
#2	2233.955	52122.46	12528.45	1545.323	3525.951
#3	2259.169	52879.11	12575.63	1551.006	3558.608

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03MSD Acquired: 11/14/2024 20:08:15 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8386979	1.751464	.9018822	2.019354	.8057197	2.097881
Stddev	.0013315	.015451	.0047766	.003919	.0004901	.008096
%RSD	.1587619	.8822004	.5296299	.1940477	.0608335	.3859331
#1	.8399402	1.735595	.8972001	2.023657	.8060515	2.106656
#2	.8388613	1.766461	.9016983	2.015992	.8059510	2.090701
#3	.8372922	1.752335	.9067481	2.018413	.8051567	2.096286

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2326287	.1922897	.1887323	183.2257	.3954114	.1914526
Stddev	.0002846	.0004569	.0001286	.4938	.0014772	.0002595
%RSD	.1223572	.2376143	.0681598	.2695189	.3735949	.1355711
#1	.2324833	.1919767	.1887264	183.3806	.3946732	.1913877
#2	.2329566	.1928140	.1886067	182.6729	.3971122	.1912317
#3	.2324460	.1920783	.1888638	183.6234	.3944487	.1917385

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2910619	3.072305	.1941273	2.401148	.4792094	.0713208
Stddev	.0003253	.012124	.0004037	.029682	.0006813	.0002986
%RSD	.1117472	.3946108	.2079703	1.236152	.1421707	.4187214
#1	.2909275	3.063800	.1939992	2.408521	.4784234	.0715842
#2	.2914328	3.086187	.1938031	2.368474	.4796296	.0713818
#3	.2908253	3.066928	.1945795	2.426447	.4795753	.0709964

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	450.5021	.3154064	.2190486	14.99706	.2849836	.4174659
Stddev	6.4164	.0011050	.0014169	.08396	.0003004	.0002446
%RSD	1.424266	.3503350	.6468503	.5598646	.1053962	.0585947
#1	457.2467	.3141720	.2205274	14.99585	.2847453	.4173535
#2	449.7853	.3163032	.2189155	15.08162	.2848845	.4172978
#3	444.4743	.3157441	.2177029	14.91371	.2853210	.4177465

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03MSD Acquired: 11/14/2024 20:08:15 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6544104	.1931168	3.201638	6.273062	F 11.61958	.1836759
Stddev	.0006496	.0011461	.018179	.007189	.02192	.0007783
%RSD	.0992627	.5934505	.5678013	.1146068	.1886148	.4237338
#1	.6538456	.1925858	3.214897	6.281342	11.61990	.1837379
#2	.6551202	.1923325	3.209103	6.269441	11.59750	.1844214
#3	.6542652	.1944320	3.180915	6.268403	11.64133	.1828685

Elem	Sr4077
Units	ppm
Avg	.9427507
Stddev	.0027045
%RSD	.2868701
#1	.9433420
#2	.9397995
#3	.9451106

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2231.422	51876.79	12321.63	1537.554	3525.684
Stddev	3.113	190.85	31.36	15.736	4.972
%RSD	.1394998	.3678995	.2545105	1.023432	.1410248
#1	2227.909	51721.51	12288.43	1520.094	3524.737
#2	2233.837	51819.01	12350.75	1541.931	3531.062
#3	2232.520	52089.86	12325.70	1550.639	3521.254

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03A Acquired: 11/14/2024 20:12:31 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8289116	1.739457	.9055424	1.996037	.7974004	2.072603
Stddev	.0079571	.051560	.0034148	.012664	.0056656	.033739
%RSD	.9599404	2.964127	.3771032	.6344368	.7105098	1.627854
#1	.8358991	1.717340	.9079364	2.002015	.8013266	2.102042
#2	.8202510	1.702646	.9016320	1.981491	.7909054	2.079982
#3	.8305845	1.798386	.9070588	2.004605	.7999692	2.035786

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2327470	.1924335	.1893330	182.5303	.3951815	.1921884
Stddev	.0033616	.0021598	.0010380	1.9496	.0019198	.0013594
%RSD	1.444325	1.122356	.5482592	1.068081	.4858009	.7073277
#1	.2359553	.1944940	.1899615	184.3745	.3946582	.1932474
#2	.2330351	.1926199	.1881349	182.7262	.3935777	.1906555
#3	.2292506	.1901865	.1899027	180.4901	.3973087	.1926622

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2900260	3.060995	.1951061	2.367770	.4813499	.0712946
Stddev	.0020485	.018480	.0028936	.030931	.0026659	.0005202
%RSD	.7063179	.6037297	1.483093	1.306321	.5538412	.7296025
#1	.2915559	3.042798	.1978856	2.390623	.4831922	.0716313
#2	.2876987	3.060441	.1953221	2.380115	.4782929	.0706955
#3	.2908232	3.079745	.1921105	2.332574	.4825644	.0715570

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	454.9901	.3112623	.2183064	14.71869	.2870185	.4155749
Stddev	5.0759	.0032458	.0005660	.05436	.0036463	.0034373
%RSD	1.115616	1.042783	.2592482	.3693034	1.270404	.8271245
#1	452.6200	.3150059	.2189243	14.75988	.2900341	.4181666
#2	451.5327	.3095459	.2178132	14.65708	.2880554	.4116757
#3	460.8175	.3092351	.2181816	14.73911	.2829661	.4168824

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-03A Acquired: 11/14/2024 20:12:31 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6576142	.1930336	3.133851	6.262929	F 11.62090	.1814303
Stddev	.0030828	.0042345	.009254	.056362	.08347	.0039808
%RSD	.4687879	2.193649	.2952786	.8999328	.7183108	2.194111
#1	.6574999	.1978538	3.144083	6.280734	11.63214	.1848874
#2	.6545901	.1913344	3.131401	6.199815	11.53238	.1823255
#3	.6607525	.1899127	3.126069	6.308239	11.69819	.1770782

Elem	Sr4077
Units	ppm
Avg	.9322561
Stddev	.0077984
%RSD	.8365099
#1	.9410886
#2	.9263212
#3	.9293588

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2273.871	52588.24	12391.64	1578.316	3566.369
Stddev	17.896	252.75	155.06	13.292	18.682
%RSD	.7870439	.4806226	1.251340	.8421572	.5238319
#1	2257.532	52641.04	12228.89	1568.425	3546.819
#2	2292.997	52810.42	12408.38	1593.425	3584.040
#3	2271.085	52313.26	12537.65	1573.097	3568.247

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-07 Acquired: 11/14/2024 20:16:46 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007519	-.007631	.0000744	.0039397	.0010159	.7743384
Stddev	.000914	.002491	.0002204	.0019226	.0016584	.0034783
%RSD	12.15516	32.63764	296.2037	48.79970	163.2429	.4491950
#1	-.008210	-.005554	.0003204	.0038544	.0015351	.7703329
#2	-.007866	-.006946	-.000105	.0020613	.0023526	.7760851
#3	-.006483	-.010392	.000008	.0059036	-.000840	.7765971

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0573881	-.000130	-.000198	185.1633	.0050528	-.000136
Stddev	.0002698	.000017	.000069	.4437	.0000835	.000189
%RSD	.4701007	12.78413	35.10353	.2396300	1.653388	138.7714
#1	.0572607	-.000130	-.000192	185.6580	.0051135	-.000343
#2	.0572056	-.000146	-.000269	184.8006	.0050874	-.000096
#3	.0576980	-.000113	-.000131	185.0312	.0049575	.000029

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080121	.1373915	.0138771	.1082430	.0048811	-.000384
Stddev	.0003623	.0013049	.0002523	.0092192	.0001080	.000166
%RSD	4.521420	.9497324	1.818142	8.517168	2.212030	43.07323
#1	.0084137	.1368589	.0137888	.1027291	.0048462	-.000502
#2	.0077098	.1388784	.0141617	.1188861	.0047949	-.000456
#3	.0079128	.1364371	.0136809	.1031138	.0050022	-.000195

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	436.0725	.0069419	.0062199	4.612586	.0240244	.0038370
Stddev	3.2867	.0006284	.0001738	.040293	.0003709	.0002310
%RSD	.7536980	9.052563	2.794641	.8735506	1.544021	6.019404
#1	438.9224	.0068442	.0060782	4.612223	.0244487	.0039237
#2	436.8181	.0063681	.0061678	4.653059	.0238632	.0035753
#3	432.4771	.0076135	.0064139	4.572475	.0237613	.0040122

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-07 Acquired: 11/14/2024 20:16:46 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005933	.0003786	1.306918	.0065001	F 10.48566	-.026016
Stddev	.000833	.0004790	.008263	.0014841	.04388	.000321
%RSD	14.04350	126.4985	.6322769	22.83148	.4184312	1.233532
#1	-.006783	.0007493	1.313568	.0053897	10.50495	-.026274
#2	-.005898	-.000162	1.309519	.0081857	10.43545	-.026117
#3	-.005117	.000549	1.297667	.0059250	10.51659	-.025656

Elem	Sr4077
Units	ppm
Avg	.8974808
Stddev	.0118184
%RSD	1.316840
#1	.9102556
#2	.8952502
#3	.8869367

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2317.910	53845.53	12554.28	1657.812	3620.297
Stddev	2.624	383.69	70.32	10.892	3.178
%RSD	.1132163	.7125683	.5600926	.6570192	.0877691
#1	2315.995	53573.30	12480.95	1645.617	3616.639
#2	2320.901	53678.93	12560.78	1661.246	3622.369
#3	2316.834	54284.35	12621.13	1666.574	3621.884

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-11 Acquired: 11/14/2024 20:21:20 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006796	-.008791	.0000977	.0028497	-.000137	.0681404
Stddev	.000744	.002088	.0010821	.0036065	.000632	.0038429
%RSD	10.95396	23.75621	1108.146	126.5560	460.3841	5.639690
#1	-.006045	-.010685	-.000586	.0070051	.000436	.0667894
#2	-.007534	-.006551	.001345	.0010108	-.000816	.0724763
#3	-.006809	-.009136	-.000467	.0005334	-.000032	.0651553

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0521727	-.000131	-.000183	175.2820	.0020967	-.000523
Stddev	.0004562	.000019	.000059	.4795	.0003243	.000120
%RSD	.8744697	14.76977	32.43513	.2735626	15.46777	22.94788
#1	.0525461	-.000144	-.000120	175.0158	.0023148	-.000578
#2	.0523078	-.000141	-.000238	175.8356	.0017240	-.000606
#3	.0516641	-.000109	-.000189	174.9948	.0022513	-.000385

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010970	.0703241	.0078567	.1669425	.0013948	-.000513
Stddev	.0005050	.0014668	.0001935	.0115372	.0004264	.000161
%RSD	46.03233	2.085733	2.463369	6.910856	30.57294	31.33743
#1	.0009731	.0695978	.0080447	.1681452	.0010070	-.000434
#2	.0016525	.0693622	.0078675	.1548511	.0013259	-.000408
#3	.0006656	.0720123	.0076580	.1778312	.0018515	-.000699

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	424.2339	.0087918	.0513293	3.734381	.0233987	.0025534
Stddev	5.9490	.0019787	.0007024	.026607	.0004702	.0001898
%RSD	1.402296	22.50632	1.368340	.7124785	2.009684	7.434295
#1	430.4385	.0079815	.0520687	3.730035	.0234769	.0023569
#2	423.6846	.0073469	.0512484	3.762894	.0228943	.0025676
#3	418.5786	.0110470	.0506709	3.710215	.0238250	.0027358

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-11 Acquired: 11/14/2024 20:21:20 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0501305	-.004262	2.546998	.0035570	F 13.99366	-.024198
Stddev	.0003286	.000287	.017099	.0021396	.10355	.000819
%RSD	.6555775	6.742876	.6713485	60.15158	.7399524	3.386523
#1	.0501268	-.004503	2.557355	.0030728	13.89800	-.023769
#2	.0504611	-.003944	2.556377	.0017010	13.97937	-.025143
#3	.0498038	-.004339	2.527261	.0058972	14.10361	-.023683

Elem	Sr4077
Units	ppm
Avg	.7118543
Stddev	.0024836
%RSD	.3488845
#1	.7124619
#2	.7139777
#3	.7091233

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2298.648	53138.24	12611.40	1589.671	3632.087
Stddev	13.161	257.76	12.84	8.579	27.141
%RSD	.5725652	.4850707	.1018236	.5396462	.7472692
#1	2311.471	52861.33	12600.16	1580.120	3657.106
#2	2299.301	53182.22	12608.64	1592.170	3635.924
#3	2285.173	53371.18	12625.40	1596.722	3603.231

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-15 Acquired: 11/14/2024 20:25:46 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005796	-.006086	.0006192	.0026337	.0013816	.0028877	-.001234
Stddev	.000742	.001011	.0001632	.0009109	.0003141	.0032546	.000413
%RSD	12.79505	16.60871	26.34978	34.58474	22.73540	112.7057	33.49376
#1	-.005229	-.005839	.0005158	.0022360	.0014074	.0005442	-.001162
#2	-.005524	-.005221	.0005345	.0036758	.0016820	.0066037	-.000862
#3	-.006635	-.007197	.0008073	.0019894	.0010554	.0015151	-.001679

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000158	-.000181	.0065277	.0006091	-.000214	.0003660	.0159578
Stddev	.000022	.000051	.0072573	.0000993	.000014	.0002161	.0008651
%RSD	13.74698	28.24879	111.1756	16.29937	6.547914	59.03929	5.421073
#1	-.000160	-.000136	-.001722	.0006560	-.000223	.0002457	.0158036
#2	-.000179	-.000236	.009380	.0004950	-.000221	.0006155	.0151803
#3	-.000136	-.000170	.011925	.0006762	-.000198	.0002369	.0168897

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134088	.0062395	.0004639	-.000056	-.461415	.0003065	.0020759
Stddev	.0002458	.0049876	.0001981	.000188	.005338	.0005506	.0000598
%RSD	1.833398	79.93573	42.70698	334.9092	1.156920	179.6496	2.881079
#1	.0131256	.0109625	.0002443	.000141	-.467540	.0008737	.0020635
#2	.0135665	.0067323	.0005183	-.000233	-.457759	-.000226	.0021409
#3	.0135345	.0010238	.0006292	-.000077	-.458945	.000272	.0020232

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.031344	-.000846	.0003680	-.003098	-.000052	.0163631	.0058505
Stddev	.008663	.000467	.0003257	.000146	.000272	.0042316	.0012230
%RSD	27.63765	55.25948	88.51293	4.722747	525.4161	25.86072	20.90457
#1	-.031906	-.001377	.0001444	-.002939	-.000101	.0199783	.0053039
#2	-.039712	-.000664	.0002179	-.003227	-.000296	.0174021	.0072515
#3	-.022414	-.000497	.0007417	-.003127	.000241	.0117087	.0049962

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-15 Acquired: 11/14/2024 20:25:46 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0425797	-.001423	-.000047
Stddev	.0043652	.000576	.000021
%RSD	10.25176	40.47489	43.80871
#1	.0453628	-.001895	-.000059
#2	.0375487	-.001593	-.000023
#3	.0448275	-.000781	-.000060

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2667.099	61960.20	13571.92	1822.318	4734.896
Stddev	9.296	57.38	80.12	11.257	16.660
%RSD	.3485369	.0926148	.5903048	.6177425	.3518611
#1	2663.807	61952.19	13649.84	1819.637	4728.820
#2	2677.593	61907.24	13489.78	1812.642	4753.742
#3	2659.898	62021.17	13576.15	1834.673	4722.127

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-19 Acquired: 11/14/2024 20:30:08 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004932	-.007110	-.000792	.0020121	.0010918	-.020925
Stddev	.001091	.001557	.000476	.0022627	.0009390	.003282
%RSD	22.11900	21.90491	60.02030	112.4519	86.01181	15.68512
#1	-.004828	-.008907	-.000363	.0020041	.0020265	-.017163
#2	-.006071	-.006147	-.000711	.0042787	.0001485	-.022407
#3	-.003896	-.006276	-.001303	-.000247	.0011002	-.023204

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0565316	-.000152	-.000148	225.0764	.0041909	-.000513
Stddev	.0002838	.000035	.000014	1.6029	.0001442	.000109
%RSD	.5020529	23.30903	9.652330	.7121368	3.441028	21.33235
#1	.0562047	-.000111	-.000136	223.2278	.0041922	-.000388
#2	.0566751	-.000173	-.000164	225.9218	.0040461	-.000592
#3	.0567150	-.000172	-.000145	226.0795	.0043345	-.000559

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011651	.0139085	.0009893	.2927659	.0012848	-.000219
Stddev	.0003426	.0041593	.0001855	.0054672	.0001894	.000104
%RSD	29.40148	29.90486	18.75426	1.867445	14.74278	47.69070
#1	.0011185	.0149135	.0009552	.2906469	.0014203	-.000216
#2	.0015286	.0093387	.0008232	.2989755	.0010684	-.000324
#3	.0008483	.0174732	.0011895	.2886754	.0013659	-.000116

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	569.2125	.0165659	.0027729	4.904273	.0283556	.0036107
Stddev	5.9639	.0006376	.0002099	.028045	.0002097	.0003747
%RSD	1.047740	3.848784	7.568813	.5718397	.7395725	10.37601
#1	565.0252	.0166091	.0026890	4.929901	.0282320	.0035402
#2	566.5714	.0159079	.0026180	4.874315	.0282371	.0040156
#3	576.0409	.0171809	.0030117	4.908604	.0285978	.0032763

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4799-19 Acquired: 11/14/2024 20:30:08 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006673	-.004817	6.081831	.0074950	F 15.64285	-.032506
Stddev	.000344	.000286	.027526	.0016713	.04131	.000579
%RSD	5.157261	5.933579	.4525985	22.29905	.2641123	1.779900
#1	-.007019	-.004652	6.055953	.0084713	15.62494	-.031838
#2	-.006669	-.005148	6.078786	.0084486	15.61352	-.032867
#3	-.006331	-.004653	6.110753	.0055652	15.69010	-.032811

Elem	Sr4077
Units	ppm
Avg	.9070958
Stddev	.0055774
%RSD	.6148620
#1	.9006881
#2	.9108600
#3	.9097392

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2199.462	50407.59	12553.07	1501.438	3452.525
Stddev	2.803	86.76	72.39	3.551	7.039
%RSD	.1274271	.1721138	.5766425	.2365235	.2038825
#1	2197.463	50461.64	12636.63	1503.147	3447.254
#2	2202.666	50453.60	12512.99	1503.812	3460.519
#3	2198.257	50307.51	12509.58	1497.355	3449.801

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4807-04 Acquired: 11/14/2024 20:34:41 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005526	-.009339	.0004188	.0039247	.0004221	.0514938	.6052214
Stddev	.000715	.001230	.0006145	.0004084	.0012598	.0014425	.0024948
%RSD	12.93901	13.17442	146.7327	10.40484	298.4606	2.801415	.4122192
#1	-.006323	-.007919	.0000098	.0043926	.0016957	.0498530	.6078029
#2	-.005314	-.010020	.0011254	.0037416	.0003940	.0520654	.6028234
#3	-.004941	-.010079	.0001211	.0036399	-.000823	.0525629	.6050379

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000380	.0004610	15.32904	.0043954	.0040025	.0068052	4.669237
Stddev	.0000211	.0000921	.04753	.0003319	.0001716	.0001830	.024698
%RSD	55.39051	19.97868	.3100695	7.550693	4.287943	2.689121	.5289477
#1	.0000423	.0005421	15.27606	.0046180	.0039215	.0066115	4.650132
#2	.0000152	.0004800	15.34314	.0045542	.0041996	.0068289	4.697126
#3	.0000567	.0003609	15.36793	.0040139	.0038863	.0069752	4.660453

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.278445	1.427557	.0092695	.0002581	393.2200	-.000476	.0622809
Stddev	.009459	.015388	.0000893	.0000345	2.7804	.000805	.0005009
%RSD	.2210818	1.077927	.9636587	13.38460	.7070938	168.9598	.8043241
#1	4.269927	1.415005	.0091759	.0002227	394.8915	.000429	.0622266
#2	4.276784	1.422942	.0093539	.0002598	390.0103	-.000747	.0628068
#3	4.288624	1.444725	.0092789	.0002917	394.7581	-.001111	.0618093

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8324257	.0266350	-.000060	-.003619	.0009586	.5409563	.0150617
Stddev	.0144808	.0005818	.000212	.000028	.0003142	.0030024	.0013202
%RSD	1.739587	2.184297	353.6541	.7794710	32.77343	.5550205	8.765436
#1	.8340497	.0273058	.000056	-.003641	.0010266	.5421401	.0161338
#2	.8172014	.0263299	.000068	-.003629	.0006160	.5431863	.0154643
#3	.8460260	.0262692	-.000304	-.003587	.0012332	.5375424	.0135871

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4807-04 Acquired: 11/14/2024 20:34:41 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2332456	-.003659	.0479998
Stddev	.0038959	.000547	.0001017
%RSD	1.670293	14.93898	.2119219
#1	.2324976	-.003168	.0481161
#2	.2374612	-.004248	.0479276
#3	.2297779	-.003562	.0479556

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2395.395	54781.26	13016.95	1655.485	3769.039
Stddev	14.907	313.52	16.34	6.786	16.150
%RSD	.6223032	.5723122	.1255337	.4099083	.4284953
#1	2382.408	54632.12	13017.87	1651.494	3756.535
#2	2392.105	54570.16	13000.17	1651.641	3763.310
#3	2411.672	55141.51	13032.82	1663.321	3787.273

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4807-08 Acquired: 11/14/2024 20:39:07 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005340	-.009956	.0007637	.0029471	-.000175	-.056924	.8584177
Stddev	.002108	.000698	.0004959	.0004393	.000576	.007238	.0053209
%RSD	39.46645	7.008609	64.93589	14.90614	330.0760	12.71534	.6198556
#1	-.007673	-.010154	.0007254	.0026036	-.000149	-.065266	.8555311
#2	-.003573	-.009181	.0012778	.0027955	-.000763	-.052308	.8551639
#3	-.004775	-.010533	.0002881	.0034421	.000389	-.053198	.8645582

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000278	.0002793	171.9938	.0084025	.0012959	.0047737	.0880002
Stddev	.000044	.0000697	.3794	.0000924	.0001172	.0003949	.0011823
%RSD	15.76237	24.95831	.2205656	1.099477	9.045390	8.271796	1.343543
#1	-.000316	.0003401	171.8409	.0083602	.0012802	.0045357	.0867149
#2	-.000286	.0002032	171.7147	.0083389	.0011874	.0045559	.0890415
#3	-.000230	.0002945	172.4257	.0085085	.0014202	.0052295	.0882442

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.681081	3.356384	.0076220	-.000403	457.5118	.0003887	.0245321
Stddev	.012522	.007464	.0002465	.000182	4.3809	.0005334	.0001637
%RSD	.4670566	.2223739	3.234285	45.05298	.9575417	137.2404	.6674485
#1	2.677950	3.356688	.0078891	-.000450	461.2960	.0009989	.0244066
#2	2.670422	3.363692	.0075739	-.000203	452.7125	.0000110	.0244725
#3	2.694872	3.348773	.0074031	-.000557	458.5268	.0001562	.0247173

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9828399	.0108687	.0010784	-.004022	-.003959	.6041046	.0060094
Stddev	.0164056	.0001373	.0001144	.000863	.000525	.0052617	.0018309
%RSD	1.669201	1.263119	10.60698	21.46241	13.26116	.8709872	30.46656
#1	.9726669	.0110196	.0010660	-.003174	-.003418	.6032613	.0065560
#2	.9740871	.0107513	.0009707	-.003992	-.003995	.5993154	.0039675
#3	1.001766	.0108351	.0011985	-.004899	-.004466	.6097369	.0075046

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4807-08 Acquired: 11/14/2024 20:39:07 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4315042	-.028526	.2506082
Stddev	.0018951	.000181	.0009851
%RSD	.4391888	.6335026	.3930968
#1	.4334020	-.028534	.2500844
#2	.4296118	-.028341	.2499956
#3	.4314988	-.028702	.2517446

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2318.941	53130.55	12580.42	1616.461	3575.249
Stddev	10.177	45.47	28.13	10.138	8.573
%RSD	.4388500	.0855840	.2235763	.6271970	.2397884
#1	2307.622	53131.40	12576.82	1619.542	3565.497
#2	2321.867	53084.66	12610.18	1605.139	3581.600
#3	2327.334	53175.59	12554.27	1624.701	3578.649

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4807-12 Acquired: 11/14/2024 20:43:33 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008048	-.010622	.0006080	.0010168	.0007708	-.051761	1.223526
Stddev	.004509	.000781	.0005075	.0009064	.0004933	.000854	.012255
%RSD	56.03318	7.353112	83.46272	89.14025	63.99888	1.650089	1.001600
#1	-.011496	-.009771	.0011553	.0020632	.0002194	-.051767	1.233562
#2	-.002945	-.010787	.0001531	.0005079	.0009227	-.050903	1.227148
#3	-.009702	-.011307	.0005156	.0004792	.0011702	-.052612	1.209869

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000301	.0003646	180.8947	.0007424	.0007922	.0191856	.0178114
Stddev	.000037	.0000484	.9369	.0002974	.0001384	.0000125	.0004390
%RSD	12.24951	13.27752	.5179533	40.06419	17.46941	.0649874	2.464501
#1	-.000275	.0003746	181.3704	.0010073	.0006379	.0191740	.0180228
#2	-.000343	.0004072	181.4983	.0004206	.0008333	.0191988	.0173067
#3	-.000285	.0003119	179.8153	.0007993	.0009053	.0191839	.0181046

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.572875	3.421530	.0024122	-.000339	491.0406	.0001593	.0773863
Stddev	.023179	.031088	.0001416	.000194	6.3694	.0005925	.0005077
%RSD	.9009004	.9085878	5.871424	57.31683	1.297113	371.8604	.6560751
#1	2.586410	3.409790	.0024313	-.000339	484.0207	.0005246	.0768524
#2	2.586103	3.456778	.0022619	-.000534	496.4505	.0004776	.0778630
#3	2.546110	3.398022	.0025432	-.000145	492.6504	-.000524	.0774434

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.550480	.0366979	.0009289	-.004498	-.003592	.6936533	.0165055
Stddev	.018579	.0005071	.0001575	.000361	.000437	.0136549	.0030249
%RSD	1.198256	1.381757	16.96057	8.034500	12.17918	1.968543	18.32690
#1	1.529279	.0372472	.0011086	-.004103	-.003116	.6816645	.0130207
#2	1.563919	.0362477	.0008145	-.004580	-.003977	.7085166	.0180419
#3	1.558241	.0365987	.0008635	-.004811	-.003682	.6907789	.0184539

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4807-12 Acquired: 11/14/2024 20:43:33 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8383153	-.030051	.3461360
Stddev	.0028389	.000241	.0030750
%RSD	.3386430	.8003888	.8883691
#1	.8407296	-.030242	.3487429
#2	.8390285	-.029781	.3469202
#3	.8351878	-.030130	.3427449

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2279.343	53285.63	12685.49	1608.498	3534.329
Stddev	4.516	321.06	118.14	9.841	9.640
%RSD	.1981339	.6025242	.9313212	.6117830	.2727572
#1	2280.686	53632.37	12580.74	1616.473	3542.377
#2	2283.035	52998.65	12662.18	1597.501	3536.964
#3	2274.307	53225.88	12813.55	1611.520	3523.645

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV08 Acquired: 11/14/2024 20:47:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.918925	4.923580	4.899339	4.957773	4.945455	9.848184	9.683157
Stddev	.023134	.008235	.015768	.012123	.008186	.081459	.074164
%RSD	.4703084	.1672536	.3218383	.2445180	.1655268	.8271500	.7659047
#1	4.909656	4.933016	4.893490	4.947995	4.944430	9.754129	9.611618
#2	4.901863	4.919880	4.887331	4.953986	4.937830	9.894329	9.678161
#3	4.945257	4.917845	4.917195	4.971337	4.954106	9.896095	9.759693

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2448844	2.447263	24.16387	1.001982	2.445406	1.250025	4.864762
Stddev	.0008285	.009485	.22625	.001961	.007434	.002720	.010923
%RSD	.3383440	.3875872	.9363083	.1956727	.3039941	.2175705	.2245427
#1	.2441785	2.443863	23.91961	1.003970	2.442323	1.249354	4.852309
#2	.2446779	2.439947	24.20575	1.001927	2.440010	1.247704	4.872725
#3	.2457966	2.457980	24.36625	1.000050	2.453886	1.253017	4.869253

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.380278	24.06434	2.452821	1.232164	25.49488	2.438162	2.504457
Stddev	.021358	.16789	.007679	.001022	.08628	.020265	.008096
%RSD	.8972780	.6976903	.3130599	.0829109	.3384303	.8311527	.3232719
#1	2.363308	23.87110	2.449681	1.233209	25.58438	2.417811	2.505363
#2	2.373266	24.14743	2.447210	1.232117	25.41222	2.438334	2.512062
#3	2.404260	24.17448	2.461572	1.231167	25.48802	2.458340	2.495946

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.58287	4.847068	5.005711	4.894391	4.806528	4.914267	4.982530
Stddev	.02648	.027113	.012049	.015950	.039325	.047905	.022169
%RSD	.1077207	.5593719	.2406995	.3258830	.8181643	.9748246	.4449272
#1	24.57085	4.824193	5.001455	4.894226	4.767812	4.859174	4.986976
#2	24.56452	4.839994	4.996369	4.878525	4.805337	4.937518	4.958476
#3	24.61322	4.877016	5.019311	4.910423	4.846436	4.946110	5.002140

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV08 Acquired: 11/14/2024 20:47:59 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.741729	4.834928	4.940380
Stddev	.008027	.033218	.027427
%RSD	.1692877	.6870349	.5551591
#1	4.739484	4.806760	4.934038
#2	4.735062	4.826465	4.916679
#3	4.750639	4.871558	4.970422

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2488.876	57312.61	12964.97	1722.969	3979.464
Stddev	2.845	55.66	67.27	5.012	3.472
%RSD	.1143029	.0971141	.5188935	.2908869	.0872465
#1	2487.698	57342.41	13029.46	1725.568	3979.365
#2	2486.809	57248.40	12970.24	1717.192	3976.043
#3	2492.121	57347.03	12895.22	1726.148	3982.985

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB08 Acquired: 11/14/2024 21:42:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000660	-.000714	.0003639	.0000531	-.000893	-.003101	-.001102
Stddev	.001695	.001005	.0000794	.0010325	.000478	.002167	.000175
%RSD	257.0245	140.8195	21.82435	1945.074	53.53141	69.90063	15.90358
#1	-.001057	-.001087	.0004556	-.000032	-.000750	-.002234	-.001001
#2	-.002121	.000425	.0003208	-.000934	-.001425	-.005567	-.001304
#3	.001199	-.001478	.0003154	.001126	-.000502	-.001501	-.001001

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000617	-.000068	-.007375	.0001671	.0001148	-.000071	.0003667
Stddev	.0000362	.000068	.005767	.0001226	.0000305	.000416	.0033305
%RSD	58.68407	100.4209	78.19831	73.35365	26.58126	582.7481	908.2565
#1	.0000705	-.000039	-.001100	.0003080	.0001215	-.000450	.0037877
#2	.0000927	-.000146	-.012443	.0001082	.0001414	-.000138	.0001777
#3	.0000219	-.000019	-.008581	.0000850	.0000815	.000374	-.002865

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000127	-.006941	.0004588	-.000135	-.100679	.0005949	.0002165
Stddev	.000077	.012633	.0000849	.000436	.017021	.0014924	.0001576
%RSD	60.40119	182.0011	18.50256	323.6448	16.90662	250.8749	72.81561
#1	-.000216	-.003232	.0003879	.000350	-.119922	.0022333	.0002469
#2	-.000079	.003422	.0005529	-.000259	-.094524	-.000687	.0000458
#3	-.000087	-.021014	.0004356	-.000494	-.087591	.000238	.0003566

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.023912	-.000953	-.000208	-.002994	.0000083	.0095853	-.001289
Stddev	.007070	.000285	.000068	.000495	.0002308	.0042139	.001236
%RSD	29.56817	29.93995	32.85527	16.54625	2793.150	43.96204	95.86399
#1	-.029041	-.000642	-.000280	-.002424	-.000258	.0049033	-.001027
#2	-.015847	-.001016	-.000198	-.003237	.000141	.0107788	-.000205
#3	-.026848	-.001202	-.000145	-.003320	.000142	.0130736	-.002635

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB08 Acquired: 11/14/2024 21:42:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0028478	-.000509	-.000079
Stddev	.0004936	.000432	.000022
%RSD	17.33077	85.00880	28.44302
#1	.0034102	-.000238	-.000066
#2	.0024866	-.000281	-.000066
#3	.0026468	-.001007	-.000105

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2660.789	60428.67	13085.39	1850.228	4568.483
Stddev	6.356	104.68	44.16	7.455	6.105
%RSD	.2388661	.1732225	.3374813	.4029053	.1336356
#1	2665.859	60387.12	13072.34	1845.266	4571.908
#2	2662.850	60351.15	13049.22	1846.617	4572.107
#3	2653.659	60547.74	13134.60	1858.801	4561.435

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4807-16 Acquired: 11/14/2024 21:46:58 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003678	-.013297	-.000137	.0043837	.0007822	-.006085	.4844292
Stddev	.001501	.002728	.000739	.0007542	.0013255	.004464	.0019106
%RSD	40.81931	20.51568	537.7659	17.20512	169.4699	73.37009	.3944096
#1	-.002385	-.013045	.000704	.0046350	.0012251	-.007634	.4822230
#2	-.005325	-.016142	-.000431	.0035359	-.000708	-.001052	.4855457
#3	-.003324	-.010704	-.000684	.0049803	.001829	-.009568	.4855189

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000045	.0004871	52.28990	.0010530	.0029811	.0537399	.1583892
Stddev	.000040	.0000642	.08397	.0002455	.0000949	.0002848	.0048656
%RSD	89.16634	13.18515	.1605825	23.31775	3.184550	.5299617	3.071935
#1	-.000054	.0004137	52.29171	.0007817	.0030082	.0536575	.1528351
#2	-.000001	.0005143	52.20504	.0012600	.0028756	.0535054	.1619000
#3	-.000079	.0005332	52.37294	.0011172	.0030596	.0540568	.1604324

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.202985	2.648092	.0037766	-.000198	383.8146	-.000337	.0433345
Stddev	.009430	.006647	.0001207	.000162	.7144	.000159	.0001054
%RSD	.2243594	.2510129	3.195660	81.82196	.1861223	47.38825	.2432377
#1	4.192517	2.643433	.0036410	-.000120	383.3360	-.000195	.0433098
#2	4.205626	2.645140	.0038722	-.000385	384.6358	-.000509	.0434500
#3	4.210813	2.655704	.0038166	-.000090	383.4722	-.000306	.0432436

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6079606	.0160929	.0004291	-.003953	-.001066	.4811947	.0095764
Stddev	.0089204	.0002956	.0001950	.000622	.000071	.0030294	.0002457
%RSD	1.467262	1.836918	45.43887	15.73864	6.675757	.6295643	2.565305
#1	.5977977	.0164335	.0005634	-.004072	-.000990	.4784039	.0093270
#2	.6144943	.0159039	.0005183	-.003280	-.001131	.4807636	.0098181
#3	.6115899	.0159411	.0002055	-.004507	-.001078	.4844166	.0095839

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4807-16 Acquired: 11/14/2024 21:46:58 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2167422	-.009657	.0866709
Stddev	.0046740	.000444	.0003016
%RSD	2.156462	4.602053	.3480235
#1	.2181718	-.009198	.0863228
#2	.2205345	-.010086	.0868560
#3	.2115204	-.009687	.0868338

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2351.165	53423.29	13110.13	1629.479	3629.573
Stddev	8.426	58.33	26.21	2.534	7.553
%RSD	.3583905	.1091845	.1999211	.1554912	.2080904
#1	2355.566	53382.35	13079.93	1626.554	3634.171
#2	2356.479	53490.08	13126.95	1630.874	3633.692
#3	2341.449	53397.45	13123.50	1631.009	3620.856

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4809-04 Acquired: 11/14/2024 21:51:25 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005309	-.008707	.0154690	.0041921	.0032825	-.044840	.2503045
Stddev	.000789	.001945	.0012994	.0008717	.0020208	.003667	.0006117
%RSD	14.85636	22.34068	8.399732	20.79478	61.56267	8.178370	.2443911
#1	-.005531	-.006470	.0140099	.0032163	.0011763	-.048742	.2496308
#2	-.004433	-.009997	.0158959	.0048941	.0034657	-.041465	.2508252
#3	-.005964	-.009654	.0165012	.0044660	.0052054	-.044312	.2504575

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000105	.0007983	179.1266	.0009915	.0051905	.0068390	.1887576
Stddev	.000026	.0000801	.9675	.0004878	.0001174	.0002897	.0040536
%RSD	25.21493	10.03497	.5401159	49.19403	2.260843	4.236084	2.147502
#1	-.000131	.0008895	178.1182	.0008988	.0052330	.0066290	.1855444
#2	-.000105	.0007661	180.0472	.0005568	.0052806	.0067185	.1874167
#3	-.000078	.0007392	179.2143	.0015190	.0050578	.0071695	.1933117

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.244937	3.982693	.0098234	-.000223	536.4486	.0018978	.0849333
Stddev	.009457	.022429	.0002654	.000397	3.6245	.0013035	.0000470
%RSD	.7596247	.5631525	2.702177	177.9821	.6756402	68.68321	.0553401
#1	1.234181	3.966743	.0100476	.000233	534.6193	.0022725	.0849842
#2	1.251947	4.008339	.0095303	-.000494	534.1034	.0029730	.0848916
#3	1.248682	3.972999	.0098923	-.000408	540.6232	.0004481	.0849242

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.405116	.0411867	.0038684	-.005482	-.003871	3.778020	.0183306
Stddev	.012518	.0002521	.0000903	.001164	.000169	.013769	.0014022
%RSD	.3676331	.6120590	2.333950	21.24314	4.362681	.3644464	7.649341
#1	3.403682	.0409255	.0039634	-.006011	-.003849	3.764115	.0199240
#2	3.393375	.0414286	.0038580	-.006288	-.003714	3.791649	.0177822
#3	3.418289	.0412061	.0037837	-.004147	-.004050	3.778296	.0172854

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4809-04 Acquired: 11/14/2024 21:51:25 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.840971	-.027844	.6352521
Stddev	.003840	.000572	.0023837
%RSD	.1351522	2.052628	.3752345
#1	2.840040	-.027187	.6325020
#2	2.845191	-.028121	.6367243
#3	2.837683	-.028225	.6365301

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2201.321	50586.11	12442.73	1522.685	3440.789
Stddev	4.332	162.69	34.41	13.245	1.098
%RSD	.1967740	.3216122	.2765444	.8698757	.0319143
#1	2196.412	50437.72	12442.17	1508.185	3442.056
#2	2204.608	50760.08	12408.61	1534.150	3440.109
#3	2202.942	50560.54	12477.42	1525.718	3440.204

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4813-02 Acquired: 11/14/2024 21:55:50 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014224	-.015672	1.168290	.0071545	.0036366	.0195187	.2976756
Stddev	.002663	.001515	.002534	.0011120	.0002611	.0006361	.0034386
%RSD	18.71846	9.664288	.2168694	15.54265	7.179840	3.258898	1.155156
#1	-.014323	-.015233	1.168407	.0082467	.0034717	.0192897	.2989355
#2	-.011514	-.017357	1.165700	.0060237	.0039376	.0190288	.3003065
#3	-.016836	-.014425	1.170764	.0071931	.0035004	.0202376	.2937847

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000383	.0005075	1.410612	.0008936	-.000185	.0571123	.0178141
Stddev	.000012	.0000556	.024939	.0000891	.000042	.0007369	.0026089
%RSD	3.240016	10.95068	1.767964	9.973457	22.61527	1.290235	14.64518
#1	-.000398	.0005683	1.402403	.0009760	-.000138	.0575421	.0159599
#2	-.000378	.0004951	1.438621	.0007990	-.000203	.0562614	.0207974
#3	-.000374	.0004592	1.390812	.0009057	-.000216	.0575334	.0166850

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0244674	.1194586	.0013330	-.000483	362.3741	.0005198	.5446125
Stddev	.0002060	.0104644	.0002932	.000288	2.0867	.0008329	.0017451
%RSD	.8421118	8.759889	21.99690	59.61245	.5758353	160.2449	.3204226
#1	.0244165	.1155768	.0011489	-.000631	362.7330	-.000362	.5445785
#2	.0246941	.1313092	.0011789	-.000151	360.1313	.001293	.5463743
#3	.0242915	.1114897	.0016711	-.000668	364.2581	.000628	.5428847

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6981425	.1006624	.0005057	-.001388	-.000121	.1403868	.0554336
Stddev	.0272736	.0017849	.0001172	.000130	.000136	.0040412	.0008991
%RSD	3.906601	1.773111	23.17123	9.373007	112.4539	2.878588	1.621972
#1	.6798174	.1022244	.0006049	-.001318	-.000076	.1429827	.0555216
#2	.7294860	.1010458	.0005359	-.001538	-.000013	.1424470	.0562855
#3	.6851241	.0987170	.0003764	-.001307	-.000274	.1357308	.0544937

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4813-02 Acquired: 11/14/2024 21:55:50 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4316524	-.001490	.0123418
Stddev	.0011304	.000561	.0001249
%RSD	.2618793	37.65836	1.011751
#1	.4303551	-.001433	.0123635
#2	.4321760	-.000959	.0124544
#3	.4324261	-.002077	.0122075

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2355.210	52936.80	12500.57	1616.472	3813.119
Stddev	8.258	125.73	185.04	10.915	12.368
%RSD	.3506364	.2375061	1.480220	.6752258	.3243420
#1	2345.689	52904.35	12408.06	1613.950	3803.740
#2	2360.436	52830.49	12380.04	1607.040	3827.135
#3	2359.505	53075.58	12713.62	1628.428	3808.482

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4813-03 Acquired: 11/14/2024 22:00:16 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006241	-.009201	.0036250	.0038512	.0001122	.0115679	.4183483
Stddev	.000367	.000360	.0006182	.0017301	.0007275	.0080346	.0025206
%RSD	5.885394	3.910122	17.05264	44.92476	648.2002	69.45578	.6025203
#1	-.006231	-.009613	.0040837	.0027857	-.000725	.0030958	.4157705
#2	-.005878	-.009046	.0038693	.0058475	.000587	.0125297	.4184671
#3	-.006613	-.008945	.0029220	.0029205	.000475	.0190784	.4208075

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000180	-.000072	1.115854	.0037755	-.000321	.0016405	.0359368
Stddev	.000012	.000042	.006152	.0003040	.000059	.0001798	.0029474
%RSD	6.678892	59.13718	.5513706	8.052650	18.34958	10.96187	8.201566
#1	-.000167	-.000028	1.112356	.0034426	-.000260	.0015205	.0393390
#2	-.000189	-.000075	1.112249	.0038454	-.000377	.0015537	.0343121
#3	-.000185	-.000112	1.122958	.0040384	-.000325	.0018473	.0341593

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0277867	.1444994	.0016637	-.000394	288.3137	-.000289	.3022057
Stddev	.0001118	.0105902	.0001732	.000113	2.0321	.001077	.0010627
%RSD	.4022191	7.328908	10.41239	28.59206	.7048220	372.2285	.3516467
#1	.0276711	.1405840	.0017448	-.000265	288.6999	.000222	.3009927
#2	.0277949	.1364244	.0014648	-.000440	286.1162	-.001526	.3029726
#3	.0278942	.1564898	.0017816	-.000476	290.1250	.000437	.3026519

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5788740	.1286484	.0004281	-.003560	.0001894	.0676299	.0520824
Stddev	.0073852	.0001042	.0001942	.000461	.0001073	.0032160	.0017801
%RSD	1.275791	.0809925	45.37195	12.94714	56.63563	4.755278	3.417914
#1	.5812689	.1285695	.0003456	-.004053	.0001906	.0710926	.0537222
#2	.5847645	.1286092	.0002887	-.003484	.0002962	.0647368	.0501891
#3	.5705885	.1287665	.0006499	-.003141	.0000816	.0670602	.0523360

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4813-03 Acquired: 11/14/2024 22:00:16 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4446032	-.001601	.0095663
Stddev	.0036862	.000521	.0000573
%RSD	.8290903	32.51791	.5994068
#1	.4413640	-.001092	.0095096
#2	.4438314	-.002133	.0096243
#3	.4486141	-.001578	.0095649

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2461.499	55138.76	12834.03	1735.910	3940.446
Stddev	4.588	141.76	40.91	11.341	4.238
%RSD	.1863787	.2570899	.3187269	.6533089	.1075532
#1	2462.309	55012.31	12854.59	1724.562	3942.103
#2	2465.628	55292.00	12860.57	1747.243	3943.605
#3	2456.561	55111.99	12786.92	1735.924	3935.630

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV09 Acquired: 11/14/2024 22:04:42 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.790749	4.878773	4.827974	4.761615	4.756872	9.702072	9.853508
Stddev	.031242	.030628	.011656	.024394	.022910	.206755	.207148
%RSD	.6521250	.6277807	.2414340	.5123001	.4816101	2.131035	2.102275
#1	4.761368	4.854610	4.816347	4.736666	4.734831	9.927930	10.04279
#2	4.787311	4.868490	4.827916	4.762766	4.755222	9.656143	9.88551
#3	4.823567	4.913220	4.839659	4.785413	4.780561	9.522145	9.63222

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2480716	2.423884	24.51337	.9798080	2.409892	1.222869	4.900291
Stddev	.0056536	.008052	.54740	.0060262	.008655	.004553	.013111
%RSD	2.279035	.3321998	2.233085	.6150427	.3591352	.3723083	.2675549
#1	.2545499	2.417300	25.11317	.9787495	2.401819	1.218717	4.885307
#2	.2455302	2.421490	24.38619	.9743812	2.408827	1.222152	4.905912
#3	.2441346	2.432862	24.04075	.9862934	2.419030	1.227738	4.909655

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.451883	23.92068	2.421461	1.214524	25.21039	2.443338	2.436856
Stddev	.060336	.52654	.008763	.002253	.13632	.055479	.004471
%RSD	2.460784	2.201206	.3619016	.1854991	.5407305	2.270620	.1834774
#1	2.517929	24.49313	2.415011	1.212255	25.28979	2.503806	2.438242
#2	2.438065	23.81186	2.417934	1.214557	25.28840	2.431424	2.431856
#3	2.399656	23.45705	2.431439	1.216760	25.05298	2.394784	2.440470

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.31714	4.884006	4.835668	4.829519	4.845462	4.792787	5.067500
Stddev	.08060	.114761	.022312	.018402	.108555	.033183	.017747
%RSD	.3314605	2.349735	.4614144	.3810304	2.240348	.6923486	.3502143
#1	24.24864	5.013917	4.814937	4.811138	4.962422	4.754703	5.055939
#2	24.40596	4.841686	4.832785	4.829478	4.826029	4.808178	5.058627
#3	24.29683	4.796415	4.859282	4.847942	4.747936	4.815480	5.087934

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV09 Acquired: 11/14/2024 22:04:42 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.729425	4.831145	4.968453
Stddev	.019655	.104286	.142463
%RSD	.4155860	2.158621	2.867359
#1	4.712926	4.942616	5.124945
#2	4.724178	4.814857	4.934125
#3	4.751171	4.735961	4.846291

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2582.201	57790.51	12834.56	1834.854	4064.226
Stddev	7.142	111.32	312.30	5.834	12.839
%RSD	.2765731	.1926230	2.433270	.3179737	.3159128
#1	2587.624	57786.80	12490.55	1835.853	4073.372
#2	2584.870	57681.10	12912.89	1828.585	4069.759
#3	2574.110	57903.64	13100.23	1840.125	4049.548

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB09 Acquired: 11/14/2024 22:08:54 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001414	-.000778	-.000107	-.000122	-.000881	-.004911	-.000493
Stddev	.001192	.000369	.000812	.001235	.000995	.000703	.000246
%RSD	84.32250	47.35443	756.5219	1015.576	112.8562	14.30654	49.81125
#1	-.001436	-.000866	.000062	-.001253	-.000033	-.004340	-.000750
#2	-.000211	-.001095	.000607	-.000308	-.000635	-.005696	-.000469
#3	-.002596	-.000374	-.000991	.001196	-.001976	-.004697	-.000261

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000547	-.000037	.0108212	.0000796	-.000064	-.000102	.0018514
Stddev	.0000328	.000064	.0112604	.0001926	.000035	.000213	.0019555
%RSD	59.99866	171.7981	104.0585	241.7841	54.50318	210.1318	105.6238
#1	.0000895	.000035	-.001927	-.000114	-.000089	-.000347	.0030418
#2	.0000243	-.000086	.019412	.000271	-.000024	.000004	.0029178
#3	.0000503	-.000060	.014979	.000082	-.000078	.000039	-.000405

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000967	.0012991	.0004192	-.000134	.0316418	.0002421	.0008749
Stddev	.0001036	.0050483	.0003447	.000104	.0266907	.0004090	.0002621
%RSD	107.1157	388.6035	82.24279	77.69723	84.35264	168.9224	29.95932
#1	.0001949	.0011414	.0004705	-.000037	.0110277	.0000197	.0005811
#2	-.000012	.0064244	.0000517	-.000244	.0221073	-.000008	.0009587
#3	.000107	-.003669	.0007354	-.000120	.0617904	.000714	.0010848

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0276539	.0038656	.0000393	.0036685	.0001279	.0067970	-.003409
Stddev	.0057223	.0005096	.0001457	.0005206	.0008167	.0003856	.000914
%RSD	20.69266	13.18317	370.5586	14.19212	638.7334	5.672590	26.79325
#1	.0314514	.0044092	.0000739	.0041631	.0010708	.0070925	-.002929
#2	.0304380	.0037890	-.000121	.0031253	-.000335	.0063608	-.004463
#3	.0210723	.0033986	.000165	.0037172	-.000352	.0069376	-.002837

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB09 Acquired: 11/14/2024 22:08:54 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0008892	.0001124	.0000372
Stddev	.0024235	.0004597	.0000228
%RSD	272.5499	409.0304	61.22835
#1	-.000840	.0003960	.0000238
#2	-.000151	.0003592	.0000636
#3	.003659	-.000418	.0000243

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2661.046	59936.00	13205.33	1864.174	4507.159
Stddev	22.080	241.22	84.38	10.509	32.251
%RSD	.8297570	.4024663	.6389804	.5637561	.7155559
#1	2684.574	59962.52	13155.88	1872.147	4541.540
#2	2657.789	59682.61	13157.35	1852.264	4502.363
#3	2640.775	60162.87	13302.76	1868.110	4477.575

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4813-05 Acquired: 11/14/2024 22:13:15 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008916	-.010440	26.76219	.0027605	.0008777	.0136592
Stddev	.003394	.000878	.07154	.0016868	.0012228	.0029722
%RSD	38.06480	8.406493	.2673151	61.10714	139.3174	21.75942
#1	-.012429	-.010139	26.68581	.0046224	.0015387	.0123162
#2	-.005655	-.009752	26.82763	.0013342	-.000533	.0170658
#3	-.008664	-.011428	26.77314	.0023248	.001628	.0115956

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6796258	.0014185	.0020248	25.95984	.0009570	.0060021
Stddev	.0014084	.0000529	.0000637	.06699	.0003128	.0001866
%RSD	.2072350	3.729762	3.144044	.2580551	32.68550	3.109655
#1	.6810721	.0013722	.0019633	25.88285	.0012155	.0062125
#2	.6782586	.0014762	.0020904	26.00488	.0010461	.0059370
#3	.6795465	.0014072	.0020206	25.99178	.0006093	.0058567

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1620269	.0357448	.4024771	23.08761	.0165320	-.000430
Stddev	.0006390	.0041027	.0008931	.11846	.0000820	.000136
%RSD	.3943752	11.47788	.2218947	.5130722	.4959147	31.54457
#1	.1615028	.0374077	.4033194	22.95196	.0166176	-.000304
#2	.1618392	.0310716	.4015407	23.14020	.0165242	-.000574
#3	.1627387	.0387550	.4025714	23.17066	.0164542	-.000413

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	352.6789	.0019431	.5139243	12.19179	.2207987	.0006497
Stddev	2.0064	.0008068	.0032649	.07554	.0001982	.0001152
%RSD	.5688918	41.52324	.6352798	.6195874	.0897612	17.72649
#1	354.1119	.0010122	.5176165	12.26602	.2207529	.0007825
#2	353.5389	.0023771	.5127377	12.19436	.2206274	.0005771
#3	350.3859	.0024401	.5114187	12.11501	.2210158	.0005895

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4813-05 Acquired: 11/14/2024 22:13:15 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003992	-.000541	F 13.68870	.0376215	1.570988	.0199245
Stddev	.000217	.000240	.05809	.0025279	.007063	.0004834
%RSD	5.442484	44.37373	.4243600	6.719240	.4495827	2.425980
#1	-.004109	-.000346	13.65848	.0362063	1.563237	.0199259
#2	-.004125	-.000469	13.75567	.0405400	1.572668	.0194405
#3	-.003741	-.000810	13.65194	.0361182	1.577060	.0204072

Elem	Sr4077
Units	ppm
Avg	.1594913
Stddev	.0003238
%RSD	.2030350
#1	.1598522
#2	.1592262
#3	.1593955

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2358.996	54069.87	12962.87	1642.730	3687.756
Stddev	11.228	362.86	22.06	21.210	12.402
%RSD	.4759747	.6710865	.1701832	1.291118	.3362891
#1	2354.214	53883.23	12942.87	1623.683	3688.574
#2	2371.823	53838.33	12959.22	1638.921	3699.729
#3	2350.949	54488.06	12986.53	1665.586	3674.966

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4812-03 Acquired: 11/14/2024 22:17:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.036758	.5730756	.0094009	.5264213	-.001446	.1382330
Stddev	.006224	.0027020	.0013465	.0071444	.002986	.0043784
%RSD	16.93295	.4714951	14.32279	1.357160	206.4849	3.167398
#1	-.033053	.5750877	.0107914	.5337018	-.000355	.1349311
#2	-.043944	.5700045	.0093080	.5261407	-.004824	.1431996
#3	-.033277	.5741346	.0081033	.5194213	.000841	.1365682

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0316556	-.003275	-.003000	3.938931	.0035331	-.020422
Stddev	.0001776	.000066	.000102	.016912	.0000845	.000194
%RSD	.5609849	2.015756	3.414124	.4293670	2.391198	.9483577
#1	.0316760	-.003348	-.003084	3.956455	.0035960	-.020624
#2	.0314687	-.003260	-.002886	3.937633	.0035662	-.020403
#3	.0318220	-.003219	-.003029	3.922705	.0034371	-.020239

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4160568	-.121735	.1083814	.5299651	-.016709	-.002211
Stddev	.0011202	.008382	.0007266	.0047739	.000167	.000144
%RSD	.2692351	6.885137	.6704158	.9007870	.9997288	6.498038
#1	.4161111	-.113551	.1083689	.5255081	-.016598	-.002199
#2	.4149105	-.121353	.1091143	.5350027	-.016901	-.002073
#3	.4171489	-.130301	.1076612	.5293844	-.016629	-.002360

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	480.4417	-.130111	.6921451	F 1027.564	.6305670	F 41.68882
Stddev	1.3162	.000956	.0009542	2.976	.0032722	.06389
%RSD	.2739591	.7348410	.1378629	.2896313	.5189350	.1532465
#1	481.4433	-.129461	.6923387	1030.504	.6318778	41.74738
#2	480.9308	-.131209	.6911089	1024.553	.6329805	41.62069
#3	478.9509	-.129663	.6929877	1027.634	.6268425	41.69841

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4812-03 Acquired: 11/14/2024 22:17:37 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2512756	.0027155	1.183267	3.485847	F 14.51207	.1652190
Stddev	.0010241	.0005887	.011586	.015397	.04943	.0006767
%RSD	.4075800	21.68012	.9791767	.4417004	.3406284	.4095650
#1	.2521347	.0020890	1.175290	3.472939	14.45753	.1656090
#2	.2515498	.0032573	1.177953	3.481713	14.55393	.1656104
#3	.2501422	.0028001	1.196557	3.502889	14.52476	.1644377

Elem	Sr4077
Units	ppm
Avg	.1039071
Stddev	.0002272
%RSD	.2186320
#1	.1040775
#2	.1039946
#3	.1036492

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1512.055	37358.54	10876.90	1021.355	2756.633
Stddev	7.278	41.05	42.34	5.243	9.274
%RSD	.4813099	.1098900	.3892584	.5133385	.3364133
#1	1503.828	37311.14	10859.92	1016.549	2746.610
#2	1517.651	37381.78	10845.68	1020.570	2764.908
#3	1514.686	37382.71	10925.09	1026.946	2758.382

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4813-01 Acquired: 11/14/2024 22:22:05 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.010710	-.010654	.5979271	.0033394	.0273856	.0035973
Stddev	.002017	.001232	.0010454	.0038194	.0019979	.0042600
%RSD	18.83709	11.56144	.1748333	114.3742	7.295360	118.4210
#1	-.008836	-.011173	.5968437	-.000312	.0277692	.0004642
#2	-.010449	-.009248	.5980077	.007307	.0252237	.0018798
#3	-.012845	-.011542	.5989298	.003023	.0291639	.0084479

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.11313	-.000168	.0002851	260.5119	.0038810	-.005016
Stddev	.03890	.000036	.0000714	1.5128	.0003077	.000095
%RSD	.2035394	21.41443	25.03829	.5807140	7.928001	1.893843
#1	19.11917	-.000207	.0003620	258.8884	.0039499	-.004958
#2	19.07156	-.000137	.0002210	260.7653	.0035447	-.005125
#3	19.14866	-.000159	.0002724	261.8820	.0041484	-.004964

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1858725	1.022906	.2737715	71.76143	.0285618	-.000318
Stddev	.0009121	.006684	.0014556	.26088	.0003872	.000297
%RSD	.4907191	.6533992	.5316872	.3635327	1.355693	93.37202
#1	.1849341	1.015329	.2720942	71.54906	.0284425	-.000244
#2	.1867559	1.025424	.2745171	71.68259	.0289946	-.000645
#3	.1859276	1.027965	.2747034	72.05263	.0282482	-.000065

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1196.052	.0084282	4.413499	32.24390	3.340536	.3997907
Stddev	2.582	.0002082	.020760	.15623	.017458	.0008992
%RSD	.2158893	2.470590	.4703828	.4845389	.5226243	.2249273
#1	1196.850	.0082253	4.435043	32.06678	3.355282	.3990996
#2	1193.165	.0084179	4.411830	32.30277	3.321259	.4008074
#3	1198.140	.0086414	4.393624	32.36214	3.345068	.3994651

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4813-01 Acquired: 11/14/2024 22:22:05 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051205	.0042867	1.694732	kF 10.61195	F 17.97249	1.285327
Stddev	.0012027	.0004304	.004659	.04254	.04279	.003708
%RSD	23.48886	10.04157	.2749297	.4008898	.2380999	.2884609
#1	.0041171	.0038034	1.698727	k 10.62243	17.99405	1.281705
#2	.0064537	.0046289	1.689613	k 10.64827	18.00021	1.285160
#3	.0047905	.0044277	1.695855	k 10.56514	17.92320	1.289115

Elem	Sr4077
Units	ppm
Avg	^ *****
Stddev	-----
%RSD	-----
#1	^ -----
#2	^ -----
#3	^ -----

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2001.496	45416.25	11233.15	1363.656	3049.403
Stddev	11.202	199.39	63.84	8.165	14.895
%RSD	.5596862	.4390232	.5682907	.5987552	.4884562
#1	1994.370	45188.46	11160.12	1360.153	3035.047
#2	1995.711	45501.20	11278.32	1357.828	3048.377
#3	2014.408	45559.11	11261.01	1372.988	3064.784

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4813-04DLX5 Acquired: 11/14/2024 22:26:35 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117169	.0690776	.0006879	.0493806	.0116429	.0024356	.0030004
Stddev	.0029523	.0019425	.0002097	.0023367	.0012584	.0047827	.0003614
%RSD	25.19711	2.812063	30.48894	4.731974	10.80845	196.3668	12.04406
#1	.0142749	.0711870	.0004637	.0520248	.0130849	-.002931	.0033580
#2	.0084863	.0686834	.0007207	.0485232	.0110778	.003991	.0030079
#3	.0123895	.0673624	.0008792	.0475937	.0107662	.006247	.0026353

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001037	-.000426	.6230732	-.000185	-.003018	.0158286	-.013378
Stddev	.000077	.000037	.0084947	.000119	.000158	.0000592	.003870
%RSD	7.383354	8.758866	1.363358	64.27765	5.227405	.3738042	28.92550
#1	-.000960	-.000428	.6133909	-.000050	-.003161	.0158196	-.010383
#2	-.001039	-.000387	.6265541	-.000229	-.003043	.0157744	-.012004
#3	-.001113	-.000462	.6292745	-.000275	-.002849	.0158917	-.017747

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1397124	.0743501	-.002086	-.000582	59.50629	-.021944	.0315511
Stddev	.0020760	.0050153	.000245	.000204	.23490	.002049	.0002592
%RSD	1.485915	6.745539	11.72699	35.09280	.3947543	9.336121	.8216004
#1	.1375131	.0767820	-.001808	-.000388	59.63177	-.019743	.0314309
#2	.1399862	.0685825	-.002271	-.000562	59.65180	-.022295	.0318486
#3	.1416379	.0776859	-.002177	-.000795	59.23529	-.023795	.0313738

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	187.9711	1.571015	5.837339	.0192870	.0003834	.5340347	.8182618
Stddev	.4763	.015273	.019920	.0009931	.0001989	.0042376	.0041491
%RSD	.2533706	.9721901	.3412580	5.149092	51.86999	.7935164	.5070634
#1	187.6306	1.555487	5.854779	.0204290	.0001546	.5294127	.8227400
#2	188.5153	1.571537	5.815630	.0188054	.0004804	.5349547	.8174974
#3	187.7673	1.586020	5.841608	.0186265	.0005151	.5377369	.8145481

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4813-04DLX5 Acquired: 11/14/2024 22:26:35 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.397348	.0022180	.0134199
Stddev	.008714	.0005037	.0014391
%RSD	.6236430	22.71054	10.72358
#1	1.407266	.0020627	.0149888
#2	1.393861	.0018102	.0131097
#3	1.390917	.0027811	.0121612

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2351.924	52697.40	12408.77	1614.300	4019.575
Stddev	9.144	174.60	105.12	14.787	5.489
%RSD	.3887764	.3313343	.8471412	.9160291	.1365449
#1	2342.404	52684.66	12528.64	1614.342	4014.603
#2	2360.638	52529.51	12365.33	1599.492	4018.657
#3	2352.729	52878.02	12332.33	1629.067	4025.465

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: LR1 Acquired: 11/14/2024 22:36:13 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0154714	.1221451	.0241164	-.238665	-.006917	2127.035	.0179698
Stddev	.0118449	.0044389	.0087969	.003802	.007168	38.465	.0009339
%RSD	76.56005	3.634152	36.47696	1.593075	103.6231	1.808377	5.196882
#1	.0161448	.1260126	.0149019	-.239502	-.000475	2082.649	.0176692
#2	.0269653	.1172983	.0250215	-.241978	-.005638	2147.827	.0190170
#3	.0033042	.1231245	.0324257	-.234514	-.014638	2150.628	.0172233

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095373	.1430886	1620.353	-.002594	.0438076	-.762331	1009.637
Stddev	.0001145	.0011104	38.666	.000563	.0006675	.007955	9.379
%RSD	1.200019	.7759855	2.386274	21.70374	1.523665	1.043472	.9289118
#1	.0094476	.1423904	1576.601	-.002827	.0431949	-.767183	1014.616
#2	.0094980	.1425065	1649.933	-.001952	.0437090	-.766659	1015.476
#3	.0096662	.1443690	1634.527	-.003002	.0445189	-.753150	998.819

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.101116	1752.931	.0185619	-.002588	2090.224	.0574585	.3027635
Stddev	.002120	49.242	.0004509	.002028	22.812	.0004722	.0031464
%RSD	2.096736	2.809142	2.429189	78.36967	1.091371	.8217701	1.039232
#1	-.098677	1696.106	.0189587	-.003105	2115.201	.0570080	.3041053
#2	-.102517	1779.611	.0186556	-.000351	2084.984	.0579498	.2991687
#3	-.102155	1783.075	.0180715	-.004306	2070.488	.0574177	.3050166

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1444.821	.1495414	-.008065	.0186463	-.038915	.1654677	.0820566
Stddev	15.797	.0319344	.001777	.0022678	.000829	.0049411	.0024642
%RSD	1.093374	21.35487	22.02820	12.16224	2.130964	2.986152	3.003071
#1	1459.161	.1842006	-.008842	.0179541	-.038004	.1687876	.0792139
#2	1447.415	.1431138	-.006032	.0168052	-.039627	.1678264	.0835873
#3	1427.888	.1213097	-.009321	.0211795	-.039113	.1597893	.0833685

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: LR1 Acquired: 11/14/2024 22:36:13 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.196096	-.258174	-.995948
Stddev	.005621	.006597	.009283
%RSD	2.866559	2.555416	.9320345
#1	-.191874	-.250734	-1.00080
#2	-.202477	-.263312	-1.00180
#3	-.193937	-.260477	-.98524

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1515.358	36311.15	9854.559	1049.921	2128.558
Stddev	1.462	152.91	216.997	8.282	1.921
%RSD	.0965104	.4210976	2.201998	.7888439	.0902420
#1	1515.488	36141.18	10104.47	1041.529	2128.648
#2	1516.751	36354.76	9713.88	1050.144	2130.432
#3	1513.835	36437.53	9745.33	1058.089	2126.593

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: LR2 Acquired: 11/14/2024 22:41:11 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091233	-.045504	228.6793	.0053176	-.001203	.0599676	^F *****
Stddev	.0011496	.004453	.4875	.0038349	.003337	.0018968	-----
%RSD	12.60007	9.785697	.2131684	72.11738	277.3459	3.163110	-----
#1	.0088672	-.040375	228.5361	.0097363	-.005056	.0586660	^ -----
#2	.0103794	-.047749	228.2794	.0033604	.000669	.0621440	^ -----
#3	.0081235	-.048387	229.2223	.0028563	.000778	.0590929	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002553	-.006884	.3228940	.0128075	-.028892	248.7659	.0051680
Stddev	.000121	.000041	.0014885	.0000326	.000227	.2737	.0054668
%RSD	4.726131	.5980573	.4609908	.2548295	.7842626	.1100146	105.7825
#1	-.002633	-.006910	.3217161	.0127961	-.029015	248.5331	.0086841
#2	-.002611	-.006904	.3245670	.0128443	-.029032	248.6971	.0079501
#3	-.002414	-.006836	.3223989	.0127821	-.028631	249.0674	-.001130

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.57199	-.060265	45.77354	.0024792	.3258405	-.015656	33.29114
Stddev	.50992	.013042	.08068	.0001231	.0021168	.000511	.36544
%RSD	1.226600	21.64128	.1762630	4.966376	.6496519	3.266130	1.097700
#1	40.99349	-.045255	45.76454	.0026157	.3267157	-.015097	33.43496
#2	41.95623	-.068832	45.69773	.0023763	.3234264	-.016100	33.56278
#3	41.76625	-.066708	45.85834	.0024458	.3273794	-.015772	32.87567

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5033639	.0005778	-.006205	-.005457	-.043970	-.006747	1.982332
Stddev	.0115461	.0003480	.000141	.000266	.000170	.006505	.008927
%RSD	2.293777	60.22813	2.265847	4.877557	.3856986	96.41042	.4503168
#1	.5152740	.0001866	-.006228	-.005741	-.044136	-.001265	1.981858
#2	.5025976	.0008529	-.006332	-.005214	-.043976	-.013935	1.973652
#3	.4922201	.0006937	-.006054	-.005416	-.043797	-.005041	1.991487

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: LR2 Acquired: 11/14/2024 22:41:11 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.026247	-.000945	.0024308
Stddev	.002546	.000141	.0000754
%RSD	9.699129	14.96846	3.101224
#1	-.023508	-.000942	.0023443
#2	-.028541	-.000805	.0024662
#3	-.026691	-.001088	.0024821

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2194.229	57647.60	13066.05	1669.408	4028.816
Stddev	6.707	102.26	51.50	1.468	7.344
%RSD	.3056521	.1773893	.3941863	.0879441	.1822936
#1	2201.898	57546.22	13114.84	1670.799	4037.194
#2	2189.460	57645.84	13012.21	1669.552	4023.487
#3	2191.328	57750.72	13071.12	1667.873	4025.768

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4834-01 Acquired: 11/14/2024 22:45:34 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005988	-.007282	.0123693	.0015279	.0024087	2.371343
Stddev	.001377	.000509	.0007294	.0007768	.0001558	.008743
%RSD	22.99239	6.995855	5.896930	50.83893	6.466991	.3686917
#1	-.006135	-.007784	.0131192	.0019484	.0022926	2.369467
#2	-.004544	-.007298	.0123266	.0006316	.0023478	2.380872
#3	-.007286	-.006765	.0116622	.0020039	.0025858	2.363691

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0487240	.0001152	.0000923	42.61052	.0094097	.0019775
Stddev	.0001665	.0000112	.0001024	.12507	.0001846	.0000198
%RSD	.3416203	9.711993	111.0034	.2935104	1.961411	1.003186
#1	.0487974	.0001059	.0002103	42.48342	.0092810	.0019689
#2	.0485334	.0001277	.0000268	42.61470	.0093270	.0019633
#3	.0488411	.0001121	.0000397	42.73345	.0096212	.0020002

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0492622	5.048208	.1285093	5.619068	.0083130	-.000186
Stddev	.0005858	.022379	.0002449	.006632	.0001860	.000238
%RSD	1.189133	.4432968	.1905661	.1180246	2.236936	127.8740
#1	.0496497	5.030446	.1286031	5.622248	.0085155	-.000345
#2	.0485883	5.040836	.1282314	5.611445	.0081499	.000087
#3	.0495486	5.073343	.1286934	5.623512	.0082735	-.000300

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	60.71305	.0068433	.1438731	3.981194	.0257175	.0047168
Stddev	.28360	.0006404	.0011256	.014259	.0002470	.0003022
%RSD	.4671124	9.358719	.7823654	.3581623	.9603919	6.406440
#1	60.39834	.0061038	.1448000	3.996962	.0256479	.0047200
#2	60.79203	.0072083	.1441986	3.977412	.0255128	.0044131
#3	60.94879	.0072179	.1426206	3.969206	.0259918	.0050174

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4834-01 Acquired: 11/14/2024 22:45:34 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002581	.0864110	F 11.66631	.2436005	F 20.56527	.0143355
Stddev	.000120	.0001491	.03085	.0048693	.16492	.0001648
%RSD	4.640268	.1725265	.2644603	1.998896	.8019551	1.149705
#1	-.002464	.0865747	11.63532	.2403104	20.41502	.0145207
#2	-.002704	.0862831	11.66658	.2412969	20.53904	.0142809
#3	-.002576	.0863751	11.69703	.2491942	20.74173	.0142049

Elem	Sr4077
Units	ppm
Avg	.1319097
Stddev	.0003533
%RSD	.2678068
#1	.1315317
#2	.1319660
#3	.1322315

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2512.930	56309.29	13107.14	1708.986	4155.209
Stddev	20.013	89.23	30.20	2.590	35.631
%RSD	.7963950	.1584570	.2304380	.1515482	.8574956
#1	2532.826	56252.67	13086.28	1707.867	4189.228
#2	2513.161	56263.05	13093.36	1711.948	4158.238
#3	2492.802	56412.14	13141.78	1707.144	4118.160

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4835-01 Acquired: 11/14/2024 22:49:49 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0799980	.0117467	.5980927	-.037251	.0097272	108.6891
Stddev	.0005420	.0024956	.0015353	.001337	.0032023	.1163
%RSD	.6775070	21.24512	.2567034	3.589589	32.92131	.1069642
#1	.0803648	.0088972	.5966864	-.038465	.0067085	108.6975
#2	.0802538	.0127993	.5978610	-.035818	.0093870	108.5688
#3	.0793755	.0135434	.5997307	-.037469	.0130860	108.8009

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.585167	.0253367	.0486323	121.0309	.1284804	.0756940
Stddev	.008677	.0000585	.0002513	.3846	.0005569	.0002535
%RSD	.3356505	.2309595	.5166370	.3177614	.4334813	.3348383
#1	2.577159	.0252770	.0483536	121.4670	.1289784	.0754164
#2	2.583955	.0253391	.0487021	120.8858	.1285837	.0757526
#3	2.594386	.0253940	.0488413	120.7400	.1278790	.0759130

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.706185	221.2542	2.925615	40.38478	.1435038	.0203859
Stddev	.002641	1.3973	.012762	.09476	.0002631	.0001717
%RSD	.1547987	.6315177	.4362053	.2346318	.1833139	.8422226
#1	1.703665	222.8431	2.939865	40.49409	.1432353	.0205358
#2	1.705957	220.2171	2.921739	40.32589	.1435151	.0201985
#3	1.708933	220.7024	2.915240	40.33437	.1437611	.0204233

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.98751	.2208032	20.58048	46.78154	.2099070	.0035161
Stddev	.07502	.0005719	.10670	.19743	.0019097	.0002652
%RSD	.3951123	.2589976	.5184482	.4220297	.9098026	7.541087
#1	19.05998	.2203712	20.67699	46.94585	.2119834	.0032107
#2	18.91018	.2214518	20.46590	46.56252	.2095119	.0036872
#3	18.99237	.2205867	20.59855	46.83623	.2082257	.0036505

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4835-01 Acquired: 11/14/2024 22:49:49 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029328	.5162020	F 104.1027	F 19.06585	F 34.65903	.0432234
Stddev	.0014012	.0014551	.5607	.04804	.07076	.0004444
%RSD	47.77697	.2818789	.5386086	.2519903	.2041632	1.028152
#1	.0018826	.5178045	104.7092	19.09914	34.68168	.0435100
#2	.0045238	.5149634	103.6032	19.01077	34.57972	.0427115
#3	.0023920	.5158382	103.9957	19.08764	34.71569	.0434488

Elem	Sr4077
Units	ppm
Avg	.4708275
Stddev	.0014019
%RSD	.2977458
#1	.4720879
#2	.4710770
#3	.4693177

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3286.890	77340.65	18300.46	2310.957	3598.475
Stddev	9.756	258.10	20.87	10.637	12.490
%RSD	.2968164	.3337145	.1140576	.4602871	.3470786
#1	3297.572	77045.82	18282.22	2298.687	3609.473
#2	3284.648	77525.74	18295.93	2317.575	3601.054
#3	3278.450	77450.41	18323.23	2316.608	3584.897

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4836-01 Acquired: 11/14/2024 22:54:10 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198480	.0017581	.1036099	-.004007	.0103438	38.54398
Stddev	.0008289	.0010920	.0002223	.002470	.0013216	.13922
%RSD	4.176135	62.11231	.2145535	61.64998	12.77684	.3612058
#1	.0204610	.0028107	.1038510	-.001243	.0089499	38.38769
#2	.0189050	.0006306	.1034131	-.004779	.0115788	38.65474
#3	.0201782	.0018328	.1035655	-.005998	.0105028	38.58951

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2922927	.0035549	.0051856	69.07054	.0491667	.0224973
Stddev	.0019806	.0000090	.0000962	.35380	.0003028	.0000928
%RSD	.6776130	.2536505	1.854350	.5122283	.6159400	.4124122
#1	.2900840	.0035548	.0052896	68.84462	.0488523	.0223989
#2	.2939108	.0035640	.0050998	68.88872	.0491913	.0225099
#3	.2928835	.0035460	.0051675	69.47827	.0494564	.0225832

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5611903	46.90544	.7793746	15.11653	.0693383	.0013512
Stddev	.0008431	.26357	.0051322	.06939	.0005187	.0000830
%RSD	.1502435	.5619179	.6585006	.4590545	.7480999	6.140230
#1	.5621634	46.66744	.7739913	15.08227	.0688091	.0012618
#2	.5607329	46.86017	.7799204	15.07093	.0698458	.0014258
#3	.5606748	47.18871	.7842120	15.19639	.0693600	.0013659

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.29678	.0539317	1.408444	15.44624	.0651425	.0837360
Stddev	.18523	.0007432	.010586	.04495	.0006484	.0002251
%RSD	.7043645	1.377959	.7516328	.2910403	.9953361	.2688274
#1	26.14350	.0531168	1.396278	15.39539	.0649052	.0837955
#2	26.50260	.0541063	1.415558	15.48068	.0646461	.0839254
#3	26.24425	.0545721	1.413496	15.46266	.0658761	.0834871

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: P4836-01 Acquired: 11/14/2024 22:54:10 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004148	.4401046	F 58.99761	2.022569	F 27.89676	.0199903
Stddev	.000905	.0028790	.10263	.004430	.08222	.0002623
%RSD	21.81347	.6541600	.1739611	.2190340	.2947219	1.312101
#1	-.003277	.4368546	58.88981	2.026215	27.94810	.0198508
#2	-.005083	.4411241	59.09415	2.023855	27.94025	.0198272
#3	-.004083	.4423351	59.00885	2.017639	27.80193	.0202929

Elem	Sr4077
Units	ppm
Avg	.2300478
Stddev	.0015466
%RSD	.6722935
#1	.2283237
#2	.2313131
#3	.2305064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2720.266	62334.18	14575.66	1927.441	3957.956
Stddev	6.696	128.54	15.58	5.759	12.911
%RSD	.2461614	.2062147	.1068570	.2988022	.3262131
#1	2721.224	62323.96	14593.27	1928.354	3963.685
#2	2726.432	62211.06	14563.68	1921.280	3967.012
#3	2713.143	62467.53	14570.03	1932.689	3943.172

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV10 Acquired: 11/14/2024 22:58:21 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.793841	4.851308	4.802063	4.739057	4.776082	9.606694	9.848437
Stddev	.005643	.049033	.004106	.015664	.011530	.020707	.023524
%RSD	.1177077	1.010714	.0854962	.3305275	.2414175	.2155521	.2388635
#1	4.792050	4.796033	4.799519	4.721154	4.762814	9.629252	9.871823
#2	4.800161	4.889562	4.799870	4.745774	4.781765	9.588549	9.824777
#3	4.789310	4.868329	4.806799	4.750241	4.783668	9.602280	9.848710

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2452848	2.396953	23.95877	.9742303	2.402233	1.224263	4.864407
Stddev	.0007239	.002127	.14874	.0021487	.000591	.002049	.028544
%RSD	.2951119	.0887190	.6208224	.2205552	.0246122	.1673563	.5867864
#1	.2460367	2.395698	23.83206	.9766986	2.402839	1.222717	4.857481
#2	.2452252	2.395752	23.92172	.9727778	2.401658	1.223485	4.839964
#3	.2445926	2.399408	24.12254	.9732145	2.402201	1.226587	4.895776

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.426851	23.22052	2.410757	1.215963	25.20755	2.418555	2.714172
Stddev	.010922	.15597	.000184	.003830	.10069	.015090	.018170
%RSD	.4500300	.6717054	.0076170	.3149903	.3994515	.6239103	.6694471
#1	2.419218	23.14768	2.410941	1.220371	25.32137	2.414830	2.731102
#2	2.421975	23.11429	2.410573	1.213451	25.13009	2.405677	2.716438
#3	2.439362	23.39959	2.410758	1.214065	25.17118	2.435158	2.694975

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.38238	4.863641	4.833172	4.771654	4.820850	4.854861	4.975156
Stddev	.05077	.009030	.014391	.007705	.014121	.032115	.019890
%RSD	.2082292	.1856600	.2977572	.1614696	.2929190	.6615099	.3997869
#1	24.41000	4.873013	4.817323	4.764146	4.823450	4.834940	4.953569
#2	24.32379	4.862913	4.836771	4.771275	4.805609	4.837733	4.979160
#3	24.41337	4.854997	4.845422	4.779541	4.833490	4.891910	4.992739

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCV10 Acquired: 11/14/2024 22:58:21 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV10 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.687711	4.800246	4.944113
Stddev	.008466	.014437	.031037
%RSD	.1805979	.3007526	.6277642
#1	4.680302	4.815200	4.915995
#2	4.685891	4.786388	4.938927
#3	4.696938	4.799151	4.977416

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2546.433	57231.60	12769.70	1804.620	4021.774
Stddev	6.090	174.04	46.65	15.633	5.647
%RSD	.2391401	.3040957	.3653526	.8662739	.1404119
#1	2550.216	57047.11	12717.65	1786.569	4020.903
#2	2549.674	57392.85	12807.75	1813.770	4027.806
#3	2539.408	57254.85	12783.70	1813.520	4016.613

Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB10 Acquired: 11/14/2024 23:03:04 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006962	-.000860	.0002183	-.000039	.0002112	.0008968	-.000752
Stddev	.0006896	.000459	.0005531	.001655	.0001740	.0032640	.000437
%RSD	99.05018	53.40083	253.2999	4247.106	82.41105	363.9753	58.03704
#1	.0014923	-.000938	-.000415	-.001686	.0004121	.0045791	-.001247
#2	.0002836	-.000367	.000608	.001624	.0001079	-.000248	-.000418
#3	.0003127	-.001275	.000461	-.000055	.0001136	-.001640	-.000593

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000172	-.000013	.0116989	-.000137	.0000951	.0004059	.0015937
Stddev	.0000239	.000069	.0044045	.000317	.0001366	.0002770	.0008594
%RSD	138.8375	519.8561	37.64850	231.2412	143.6090	68.23730	53.92361
#1	-.000010	-.000066	.0089045	-.000297	-.000062	.0005926	.0016710
#2	.000027	-.000038	.0094161	-.000342	.000169	.0000877	.0006983
#3	.000035	.000064	.0167762	.000228	.000179	.0005375	.0024117

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000681	.0123170	.0004950	-.000168	.2503729	.0000531	.0008311
Stddev	.0000494	.0080436	.0002349	.000077	.0363663	.0010300	.0003569
%RSD	72.50060	65.30484	47.44944	45.78569	14.52486	1939.732	42.93686
#1	.0001241	.0140107	.0007240	-.000095	.2084317	.0004075	.0007380
#2	.0000307	.0035614	.0002546	-.000249	.2695509	-.001107	.0005301
#3	.0000495	.0193789	.0005065	-.000160	.2731360	.000859	.0012253

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2583448	.0031677	.0001721	.0030815	.0001730	.0088779	.0001672
Stddev	.0320217	.0005023	.0002491	.0008437	.0001233	.0007731	.0016061
%RSD	12.39494	15.85641	144.7185	27.38078	71.30052	8.708194	960.3302
#1	.2260438	.0035018	.0003163	.0025919	.0000306	.0085297	-.001086
#2	.2589110	.0034111	.0003156	.0025969	.0002454	.0097639	.001978
#3	.2900796	.0025900	-.000116	.0040558	.0002429	.0083402	-.000390

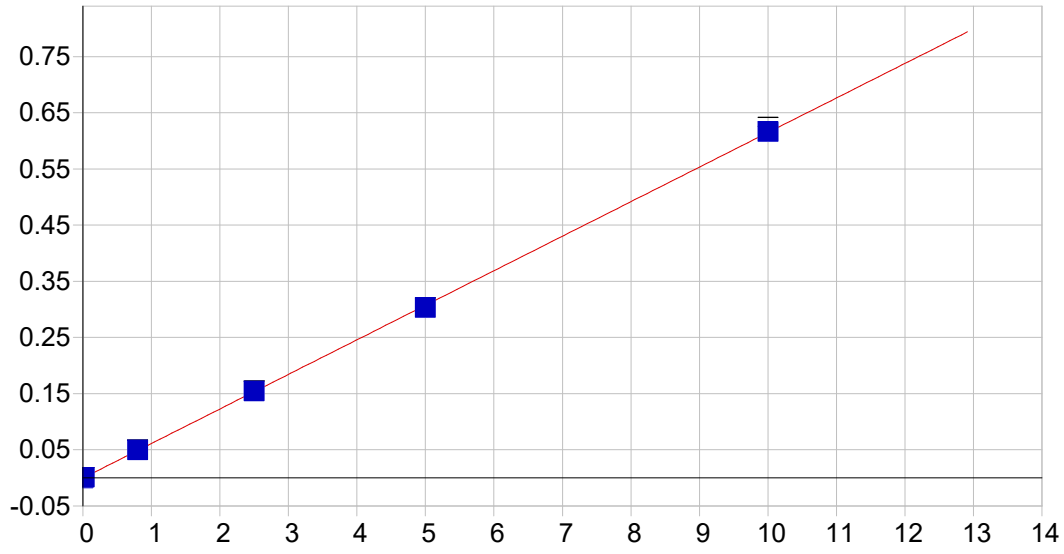
Reviewed By:mohan
On:11/20/2024
11:58:39 PM
Inst Id :P4
LB :LB133457

Sample Name: CCB10 Acquired: 11/14/2024 23:03:04 Type: Unk
Method: NON EPA-6010-200.7(v2471) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB10 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0040160	.0001062	.0003117
Stddev	.0023073	.0002879	.0000180
%RSD	57.45155	271.1345	5.767848
#1	.0017564	.0000375	.0003261
#2	.0039235	.0004223	.0003175
#3	.0063682	-.000141	.0002916

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2670.141	60302.43	13004.29	1870.368	4529.366
Stddev	8.570	141.85	72.35	11.936	11.763
%RSD	.3209584	.2352392	.5563656	.6381582	.2597066
#1	2660.440	60465.81	12968.63	1883.729	4516.603
#2	2673.298	60230.89	12956.69	1866.618	4531.724
#3	2676.684	60210.58	13087.55	1860.758	4539.771

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



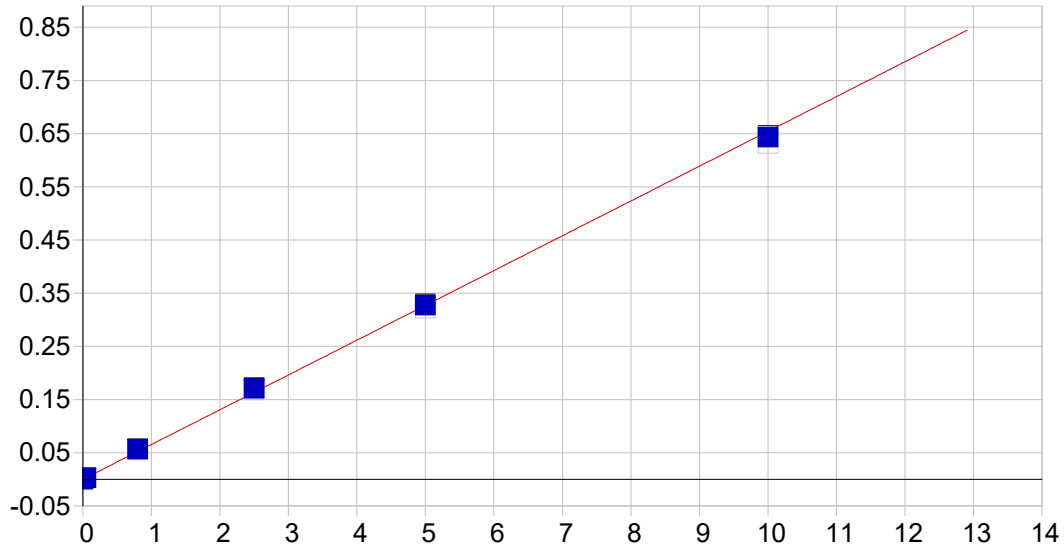
As 189.042 {479}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000279	Re-Slope:	1.000000
A1 (Gain):	0.061524	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.002574		
Predicted MQL:	0.008580		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00028	.000	1
S1	.02000	.02268	.003	13.4	.00111	.000	1
S3	2.5000	2.5202	.020	.809	.15461	.001	1
S4	5.0000	4.9320	-.068	-1.36	.30282	.000	1
S5	10.000	10.029	.029	.287	.61606	.008	1
S2	.80000	.81636	.016	2.04	.04989	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



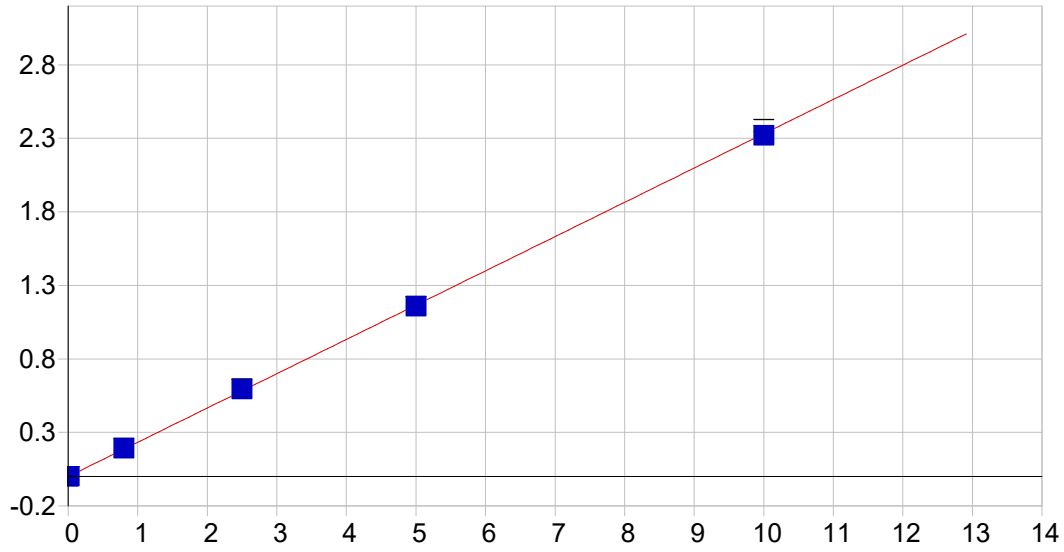
Tl 190.856 {477}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000018	Re-Slope:	1.000000
A1 (Gain):	0.065437	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999647	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.001947		
Predicted MQL:	0.006491		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00002	.000	1
S1	.04000	.04033	.000	.837	.00245	.000	1
S3	2.5000	2.6099	.110	4.40	.16775	.001	1
S4	5.0000	4.9980	-.002	-.040	.32101	.002	1
S5	10.000	9.8300	-.170	-1.70	.63118	.003	1
S2	.80000	.86174	.062	7.72	.05541	.001	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



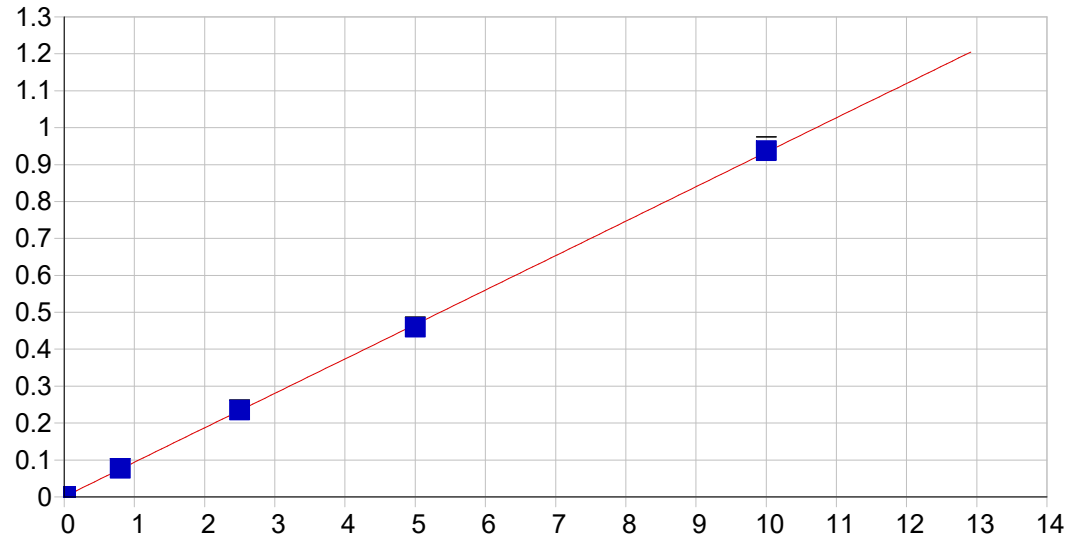
Pb 220.353 {453}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000356	Re-Slope:	1.000000
A1 (Gain):	0.233191	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999931	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.001146		
Predicted MQL:	0.003819		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00036	.000	1
S1	.01200	.01297	.001	8.09	.00261	.000	1
S3	2.5000	2.5544	.054	2.17	.59466	.000	1
S4	5.0000	4.9644	-.036	-.713	1.1560	.000	1
S5	10.000	9.9548	-.045	-.452	2.3184	.041	1
S2	.80000	.82555	.026	3.19	.19195	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



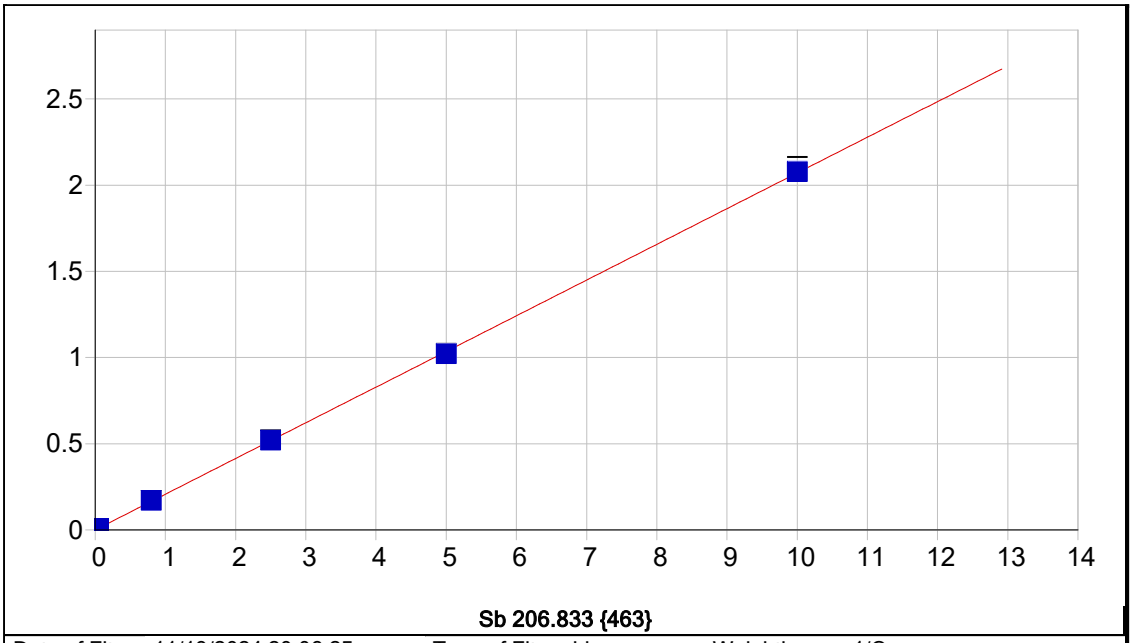
Se 196.090 {472}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000549	Re-Slope:	1.000000
A1 (Gain):	0.093273	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.002243		
Predicted MQL:	0.007476		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00055	.000	1
S1	.02000	.02103	.001	5.13	.00251	.000	1
S3	2.5000	2.5117	.012	.469	.23477	.001	1
S4	5.0000	4.9232	-.077	-1.54	.45963	.001	1
S5	10.000	10.045	.045	.453	.93727	.011	1
S2	.80000	.81877	.019	2.35	.07690	.001	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



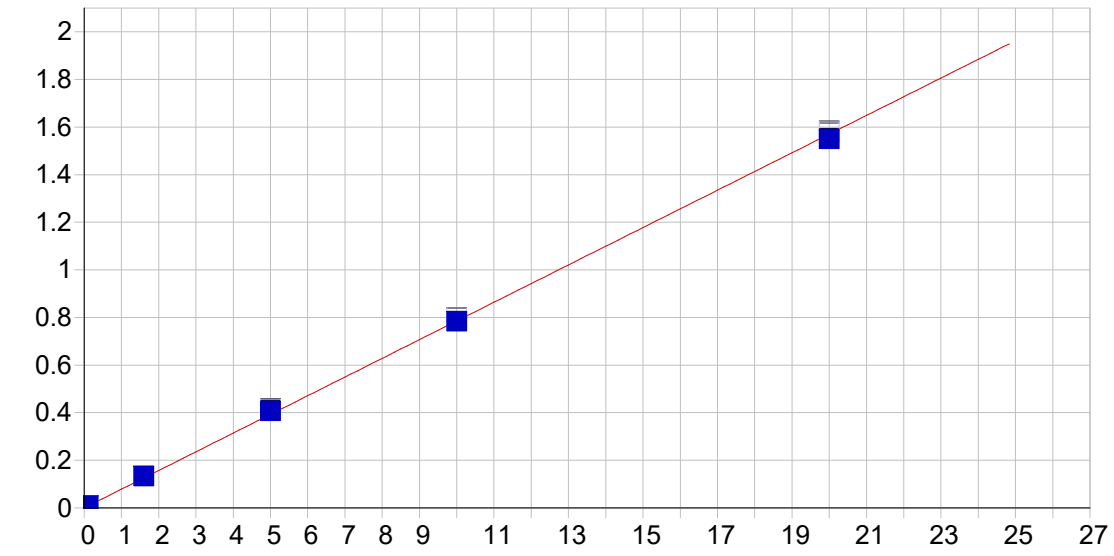
Sb 206.833 {463}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000288	Re-Slope:	1.000000
A1 (Gain):	0.207043	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000075		
Predicted MDL:	0.001229		
Predicted MQL:	0.004096		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00029	.000	1
S1	.05000	.05247	.002	4.94	.01117	.000	1
S3	2.5000	2.5113	.011	.454	.52165	.001	1
S4	5.0000	4.9318	-.068	-1.36	1.0242	.001	1
S5	10.000	10.034	.034	.342	2.0834	.026	1
S2	.80000	.82018	.020	2.52	.17055	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



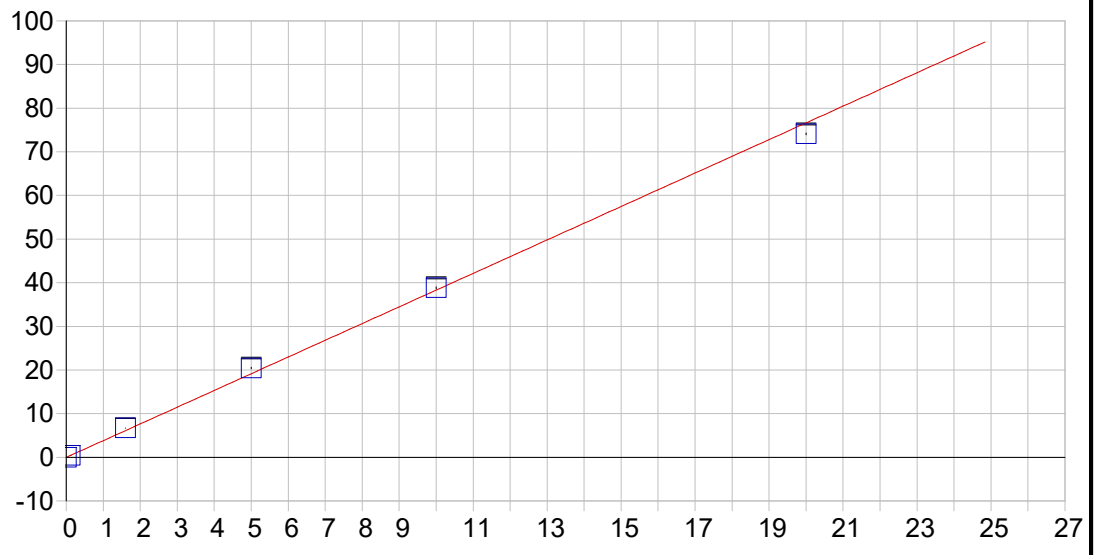
Al 396.152 { 85}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000331	Re-Slope:	1.000000
A1 (Gain):	0.078507	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999773	Status:	OK.
Std Error of Est:	0.000127		
Predicted MDL:	0.005659		
Predicted MQL:	0.018862		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00033	.000	1
S1	.10000	.11140	.011	11.4	.00969	.000	1
S3	5.0000	5.1927	.193	3.85	.41561	.001	1
S4	10.000	9.9736	-.026	-.264	.79856	.000	1
S5	20.000	19.732	-.268	-1.34	1.5799	.004	1
S2	1.6000	1.6891	.089	5.57	.13538	.001	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



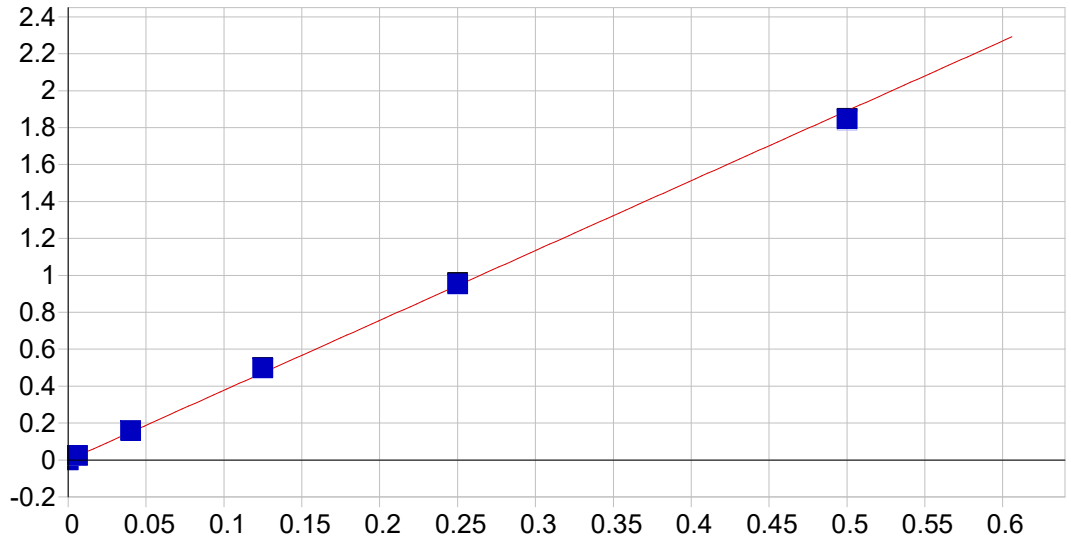
Ba 493.409 { 68}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.019174	Re-Slope:	1.000000
A1 (Gain):	3.832529	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999131	Status:	OK.
Std Error of Est:	0.011855		
Predicted MDL:	0.000404		
Predicted MQL:	0.001348		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.01930	.001	1
S1	.10000	.11758	.018	17.6	.43144	.001	1
S3	5.0000	5.3428	.343	6.86	20.457	.165	1
S4	10.000	10.142	.142	1.42	38.852	.225	1
S5	20.000	19.348	-.652	-3.26	74.132	.224	1
S2	1.6000	1.7494	.149	9.34	6.6856	.008	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



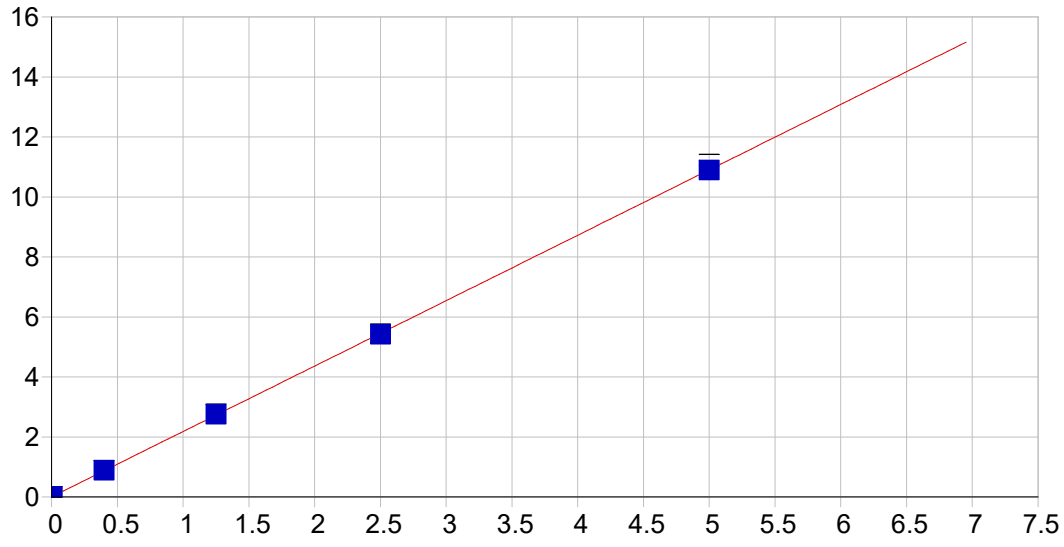
Be 234.861 {144}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000819	Re-Slope:	1.000000
A1 (Gain):	3.783377	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999571	Status:	OK.
Std Error of Est:	0.000318		
Predicted MDL:	0.000064		
Predicted MQL:	0.000213		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00082	.000	1
S1	.00600	.00627	.000	4.52	.02274	.000	1
S3	.12500	.13178	.007	5.43	.49564	.002	1
S4	.25000	.25238	.002	.951	.94978	.007	1
S5	.50000	.48844	-.012	-2.31	1.8386	.004	1
S2	.04000	.04213	.002	5.33	.15791	.001	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



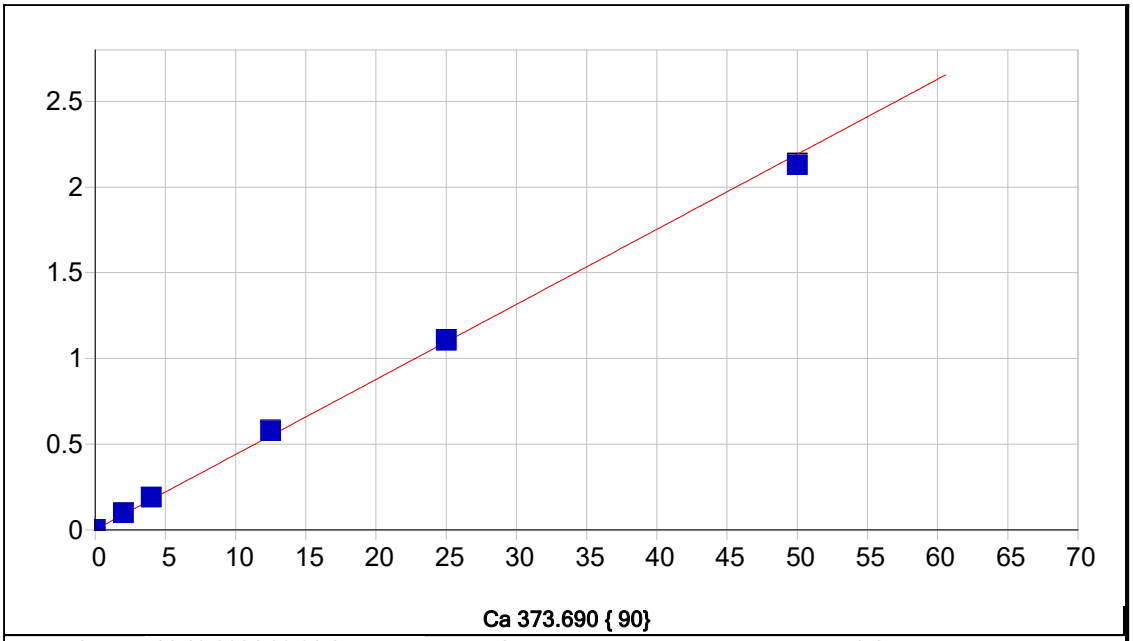
Cd 226.502 {449}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000085	Re-Slope:	1.000000
A1 (Gain):	2.180411	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000175		
Predicted MDL:	0.000094		
Predicted MQL:	0.000314		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00008	.000	1
S1	.00600	.00758	.002	26.3	.01667	.000	1
S3	1.2500	1.2645	.015	1.16	2.7594	.001	1
S4	2.5000	2.4848	-.015	-.607	5.4222	.006	1
S5	5.0000	4.9953	-.005	-.094	10.900	.193	1
S2	.40000	.40373	.004	.931	.88103	.002	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



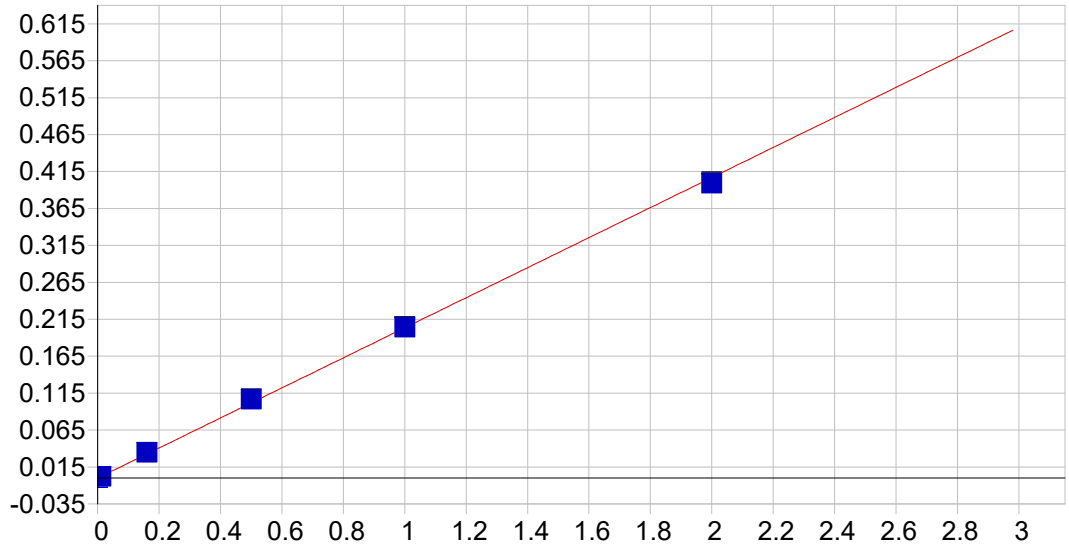
Ca 373.690 { 90}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002226	Re-Slope:	1.000000
A1 (Gain):	0.043774	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999351	Status:	OK.
Std Error of Est:	0.000834		
Predicted MDL:	0.009459		
Predicted MQL:	0.031529		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00043	-.000	.000	.00221	.000	1
S2	4.0000	4.2791	.279	6.98	.18954	.001	1
S3	12.500	13.175	.675	5.40	.57894	.003	1
S4	25.000	25.202	.202	.808	1.1054	.005	1
S5	50.000	48.618	-1.38	-2.76	2.1304	.009	1
S1	2.0000	2.2260	.226	11.3	.09967	.001	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



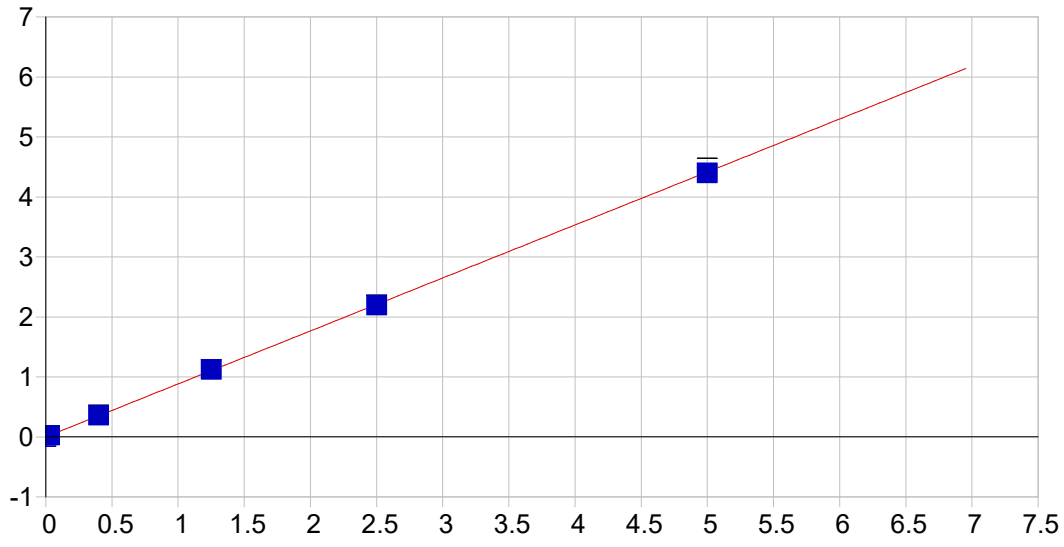
Cr 267.716 {126}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.203463	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999640	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.000399		
Predicted MQL:	0.001329		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.01000	.01068	.001	6.75	.00216	.000	1
S3	.50000	.52350	.023	4.70	.10653	.000	1
S4	1.0000	1.0041	.004	.406	.20434	.001	1
S5	2.0000	1.9610	-.039	-1.95	.39911	.002	1
S2	.16000	.17073	.011	6.71	.03474	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



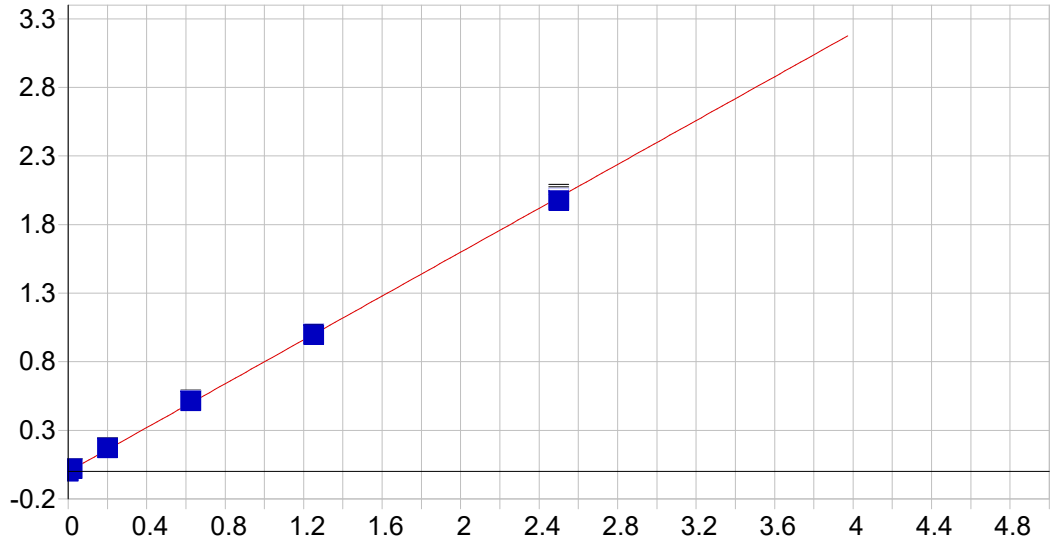
Co 228.616 {448}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000054	Re-Slope:	1.000000
A1 (Gain):	0.883077	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000172		
Predicted MDL:	0.000209		
Predicted MQL:	0.000695		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00006	.000	1
S1	.03000	.03179	.002	5.97	.02791	.000	1
S3	1.2500	1.2700	.020	1.60	1.1233	.000	1
S4	2.5000	2.4872	-.013	-.513	2.2000	.003	1
S5	5.0000	4.9806	-.019	-.388	4.4057	.078	1
S2	.40000	.41050	.010	2.62	.36305	.001	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



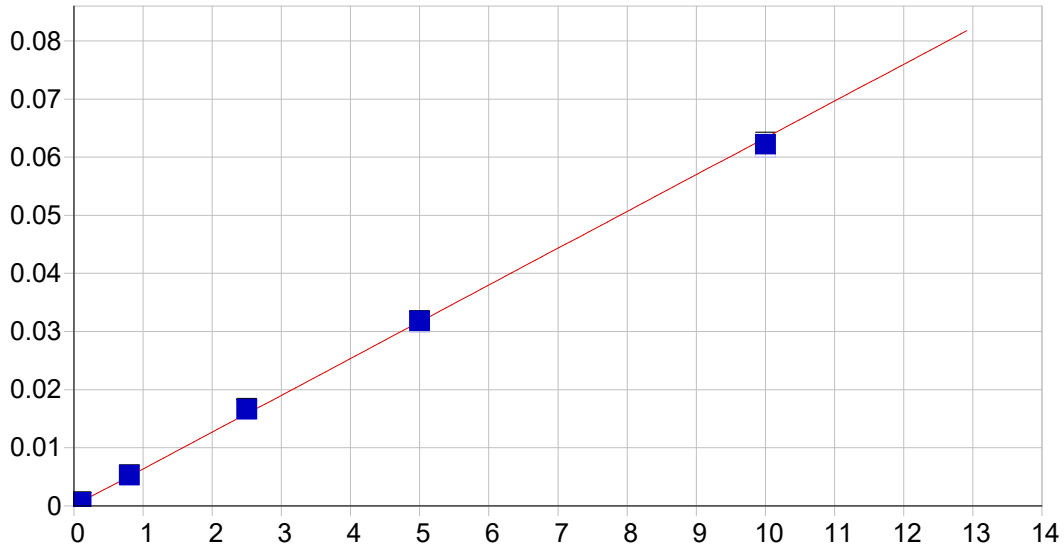
Cu 224.700 {450}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000054	Re-Slope:	1.000000
A1 (Gain):	0.799461	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999750	Status:	OK.
Std Error of Est:	0.000212		
Predicted MDL:	0.000411		
Predicted MQL:	0.001370		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00005	.000	1
S1	.02000	.02331	.003	16.5	.01889	.000	1
S3	.62500	.64385	.019	3.02	.51955	.001	1
S4	1.2500	1.2463	-.004	-.298	1.0059	.000	1
S5	2.5000	2.4687	-.031	-1.25	1.9927	.028	1
S2	.20000	.21285	.013	6.43	.17175	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



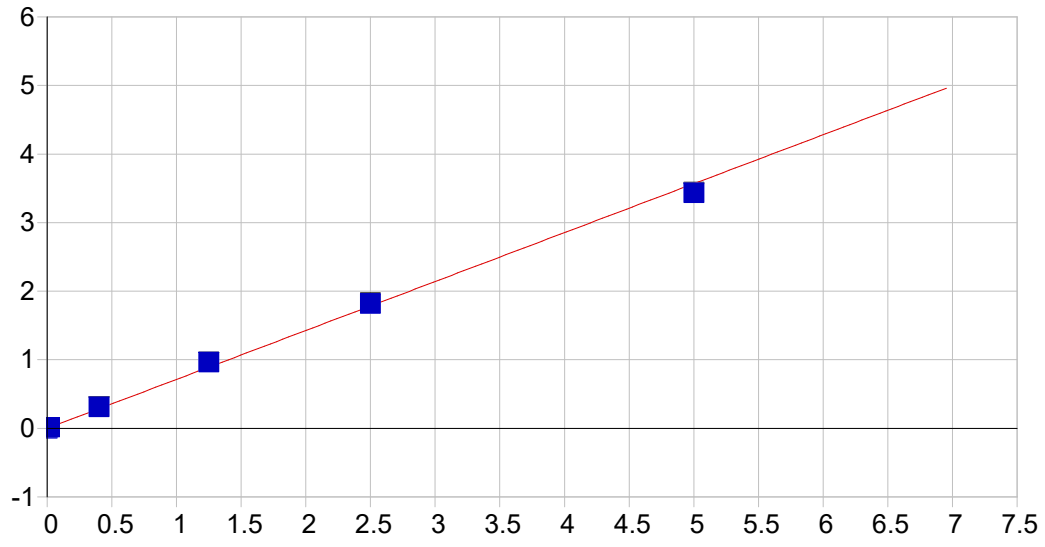
Fe 240.488 {140}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000040	Re-Slope:	1.000000
A1 (Gain):	0.006328	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999725	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.004110		
Predicted MQL:	0.013699		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00004	.000	1
S1	.10000	.10175	.002	1.75	.00068	.000	1
S3	2.5000	2.6219	.122	4.88	.01650	.000	1
S4	5.0000	5.0234	.023	.469	.03156	.000	1
S5	10.000	9.8268	-.173	-1.73	.06168	.000	1
S2	.80000	.82614	.026	3.27	.00522	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



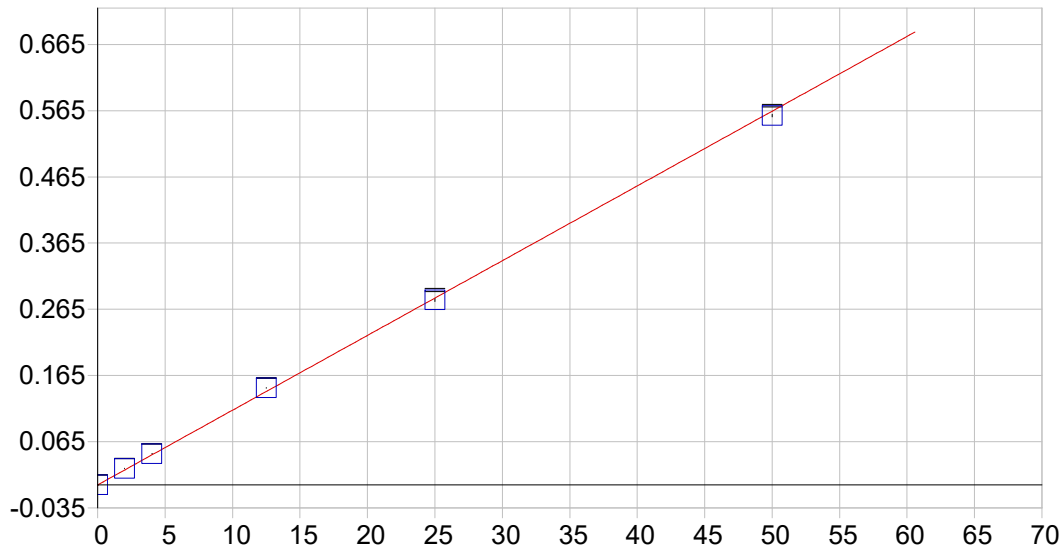
Mn 257.610 {131}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000062	Re-Slope:	1.000000
A1 (Gain):	0.713537	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998901	Status:	OK.
Std Error of Est:	0.000555		
Predicted MDL:	0.000270		
Predicted MQL:	0.000899		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00006	.000	1
S1	.02000	.02362	.004	18.1	.01692	.000	1
S3	1.2500	1.3487	.099	7.89	.96257	.004	1
S4	2.5000	2.5471	.047	1.88	1.8179	.011	1
S5	5.0000	4.8118	-.188	-3.76	3.4341	.010	1
S2	.40000	.43886	.039	9.72	.31326	.002	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



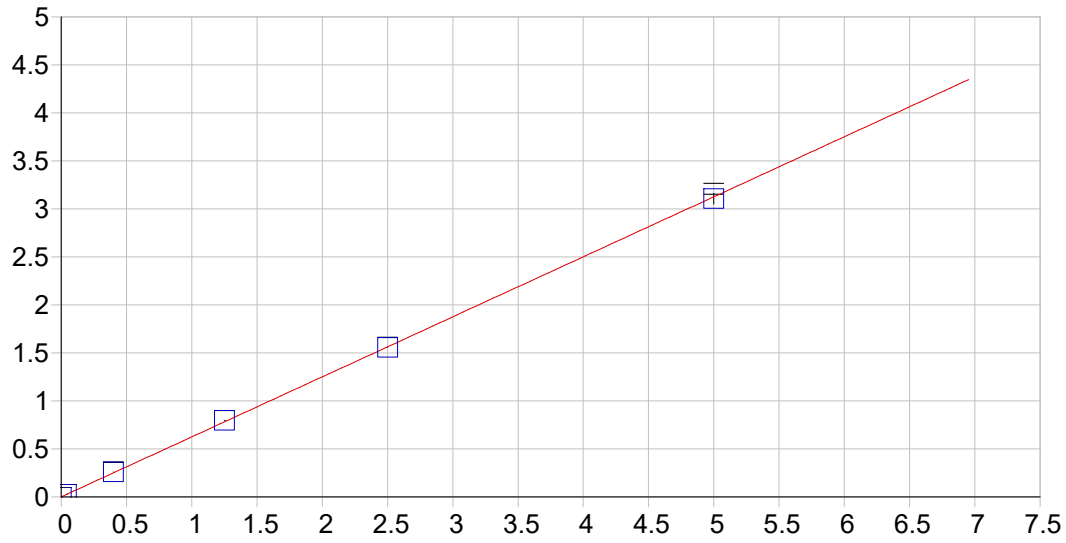
Mg 279.079 {121}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000248	Re-Slope:	1.000000
A1 (Gain):	0.011290	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999716	Status:	OK.
Std Error of Est:	0.000142		
Predicted MDL:	0.017477		
Predicted MQL:	0.058256		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00031	-.000	.000	-.00025	.000	1
S2	4.0000	4.1596	.160	3.99	.04671	.000	1
S3	12.500	12.969	.469	3.75	.14617	.001	1
S4	25.000	24.769	-.231	-.925	.27939	.002	1
S5	50.000	49.403	-.597	-1.19	.55751	.002	1
S1	2.0000	2.1993	.199	9.97	.02458	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



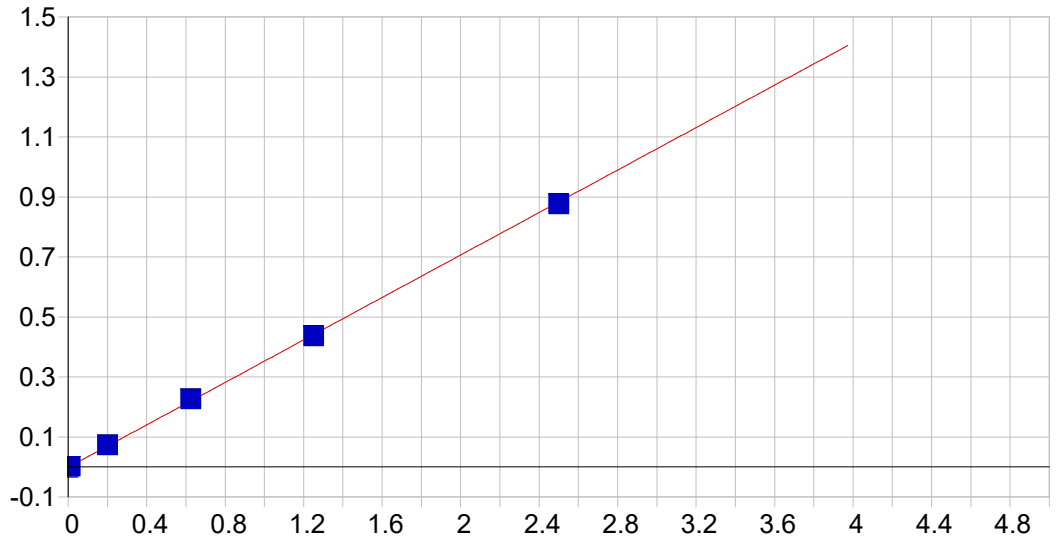
Ni 231.604 {446}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000072	Re-Slope:	1.000000
A1 (Gain):	0.625257	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999931	Status:	OK.
Std Error of Est:	0.000172		
Predicted MDL:	0.000330		
Predicted MQL:	0.001099		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00007	.000	1
S1	.04000	.04178	.002	4.45	.02619	.000	1
S3	1.2500	1.2752	.025	2.02	.79743	.000	1
S4	2.5000	2.4922	-.008	-.313	1.5583	.002	1
S5	5.0000	4.9676	-.032	-.648	3.1061	.057	1
S2	.40000	.41321	.013	3.30	.25844	.001	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



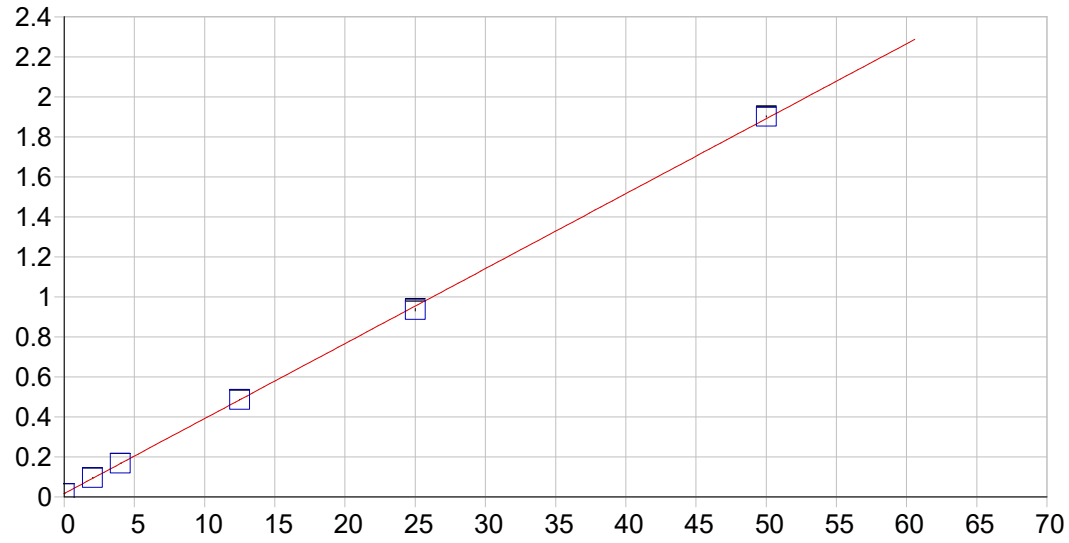
Ag 328.068 {103}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001506	Re-Slope:	1.000000
A1 (Gain):	0.353933	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999845	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	0.000322		
Predicted MQL:	0.001073		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00151	.000	1
S1	.01000	.01135	.001	13.5	.00249	.000	1
S3	.62500	.64337	.018	2.94	.22532	.001	1
S4	1.2500	1.2380	-.012	-.960	.43491	.000	1
S5	2.5000	2.4828	-.017	-.690	.87371	.001	1
S2	.20000	.20953	.010	4.77	.07237	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



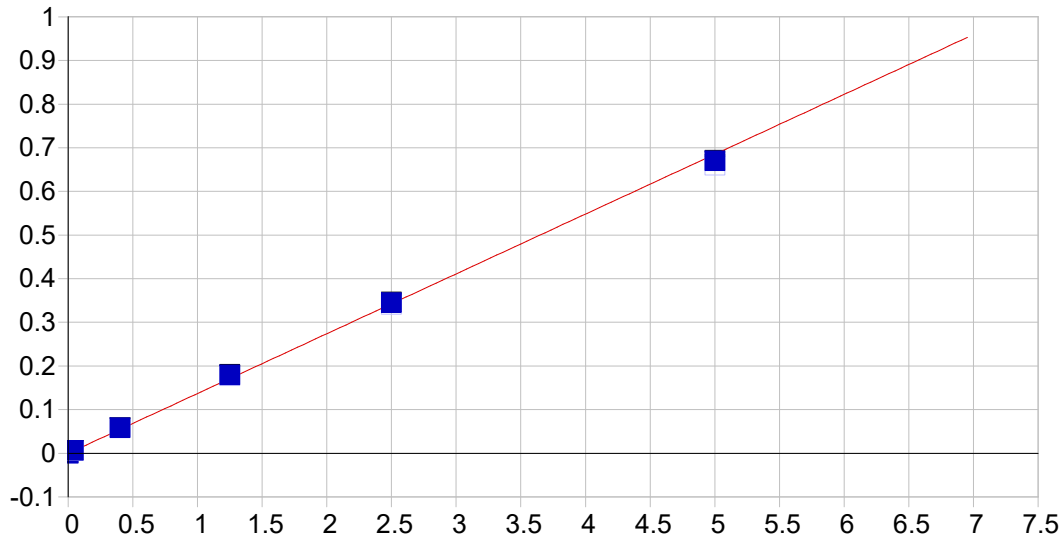
Na 589.592 { 57}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.016978	Re-Slope:	1.000000
A1 (Gain):	0.037478	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999906	Status:	OK.
Std Error of Est:	0.000272		
Predicted MDL:	0.004705		
Predicted MQL:	0.015682		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00010	-.000	.000	.01697	.000	1
S2	4.0000	4.0262	.026	.655	.16787	.000	1
S3	12.500	12.543	.043	.341	.48705	.002	1
S4	25.000	24.516	-.484	-1.94	.93578	.007	1
S5	50.000	50.305	.305	.611	1.9023	.003	1
S1	2.0000	2.1100	.110	5.50	.09606	.001	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



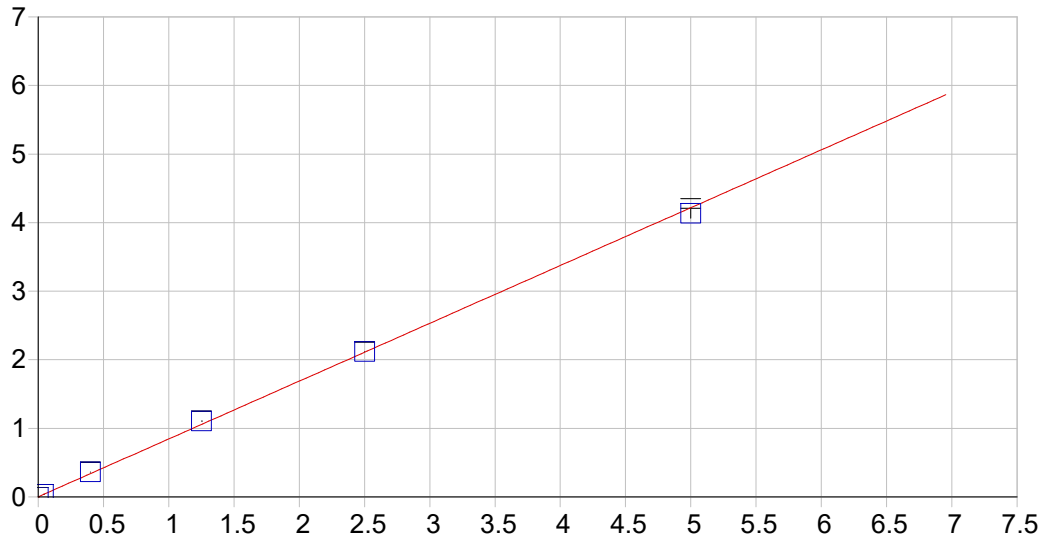
V 292.402 {115}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000165	Re-Slope:	1.000000
A1 (Gain):	0.137070	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999541	Status:	OK.
Std Error of Est:	0.000096		
Predicted MDL:	0.001488		
Predicted MQL:	0.004960		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00017	.000	1
S1	.04000	.04504	.005	12.6	.00580	.000	1
S3	1.2500	1.3123	.062	4.99	.17722	.001	1
S4	2.5000	2.5206	.021	.823	.34034	.001	1
S5	5.0000	4.8862	-.114	-2.28	.65959	.002	1
S2	.40000	.42596	.026	6.49	.05742	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



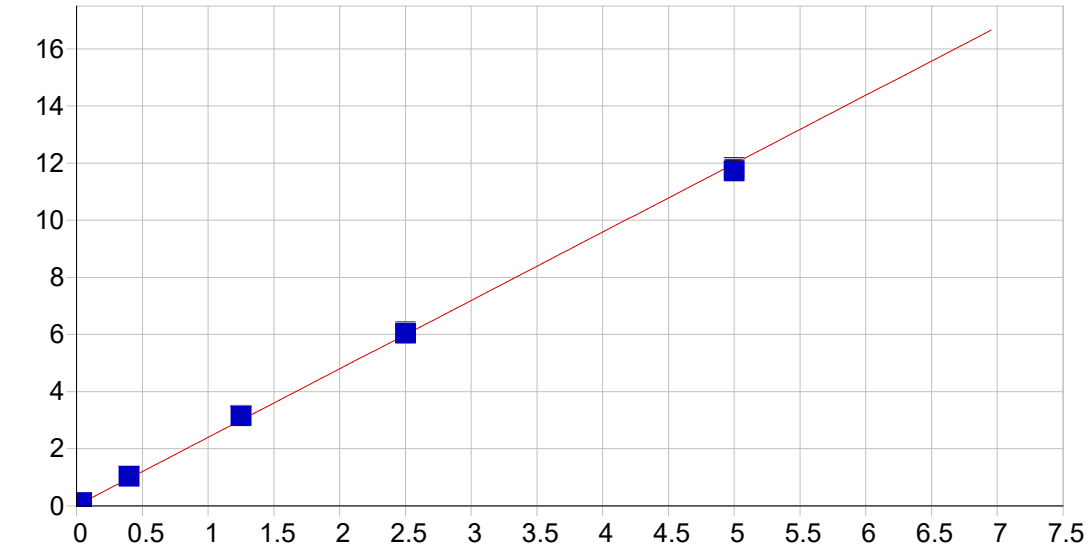
Zn 206.200 {464}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002217	Re-Slope:	1.000000
A1 (Gain):	0.843095	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999616	Status:	OK.
Std Error of Est:	0.000549		
Predicted MDL:	0.000242		
Predicted MQL:	0.000805		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00221	.000	1
S1	.04000	.04345	.003	8.64	.03885	.000	1
S3	1.2500	1.3101	.060	4.81	1.1068	.001	1
S4	2.5000	2.5093	.009	.373	2.1178	.003	1
S5	5.0000	4.9000	-.100	-2.00	4.1334	.069	1
S2	.40000	.42712	.027	6.78	.36232	.001	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



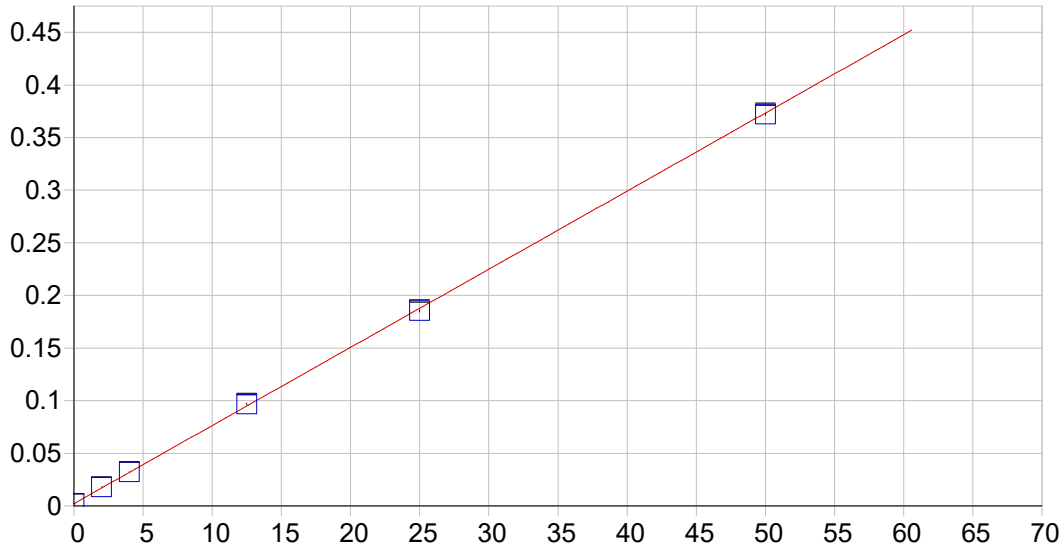
Zn 213.856 {158}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007482	Re-Slope:	1.000000
A1 (Gain):	2.394992	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999587	Status:	OK.
Std Error of Est:	0.001626		
Predicted MDL:	0.000326		
Predicted MQL:	0.001088		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00746	.000	1
S1	.04000	.04434	.004	10.9	.11435	.001	1
S3	1.2500	1.3101	.060	4.80	3.1659	.007	1
S4	2.5000	2.5177	.018	.706	6.0789	.013	1
S5	5.0000	4.8909	-.109	-2.18	11.804	.034	1
S2	.40000	.42704	.027	6.76	1.0369	.003	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



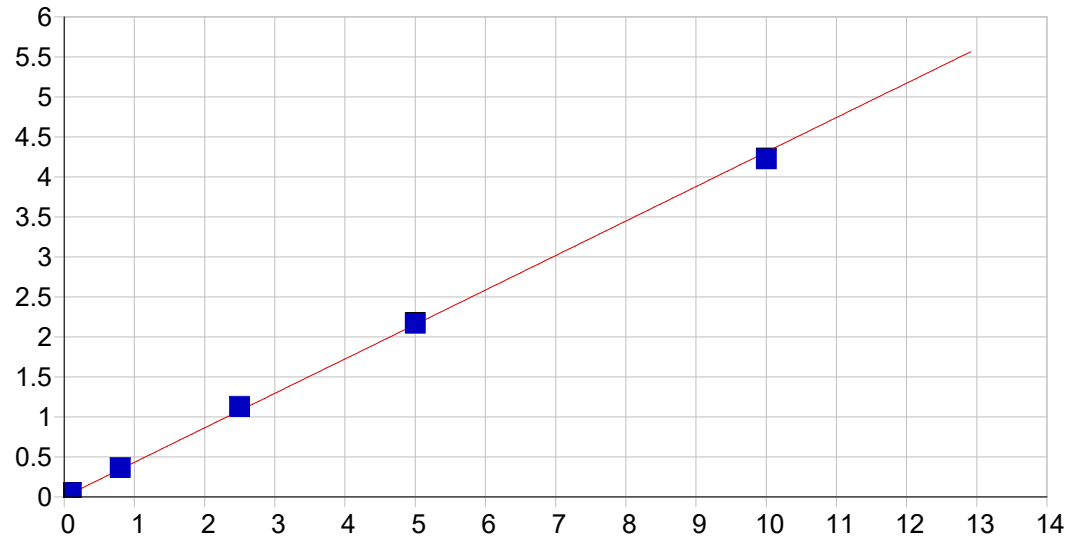
K 766.490 { 44}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002125	Re-Slope:	1.000000
A1 (Gain):	0.007426	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999894	Status:	OK.
Std Error of Est:	0.000057		
Predicted MDL:	0.024340		
Predicted MQL:	0.081133		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00018	-.000	.000	.00212	.000	1
S2	4.0000	4.0669	.067	1.67	.03232	.000	1
S3	12.500	12.750	.250	2.00	.09680	.001	1
S4	25.000	24.690	-.310	-1.24	.18547	.001	1
S5	50.000	49.856	-.144	-.287	.37234	.001	1
S1	2.0000	2.1371	.137	6.85	.01799	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



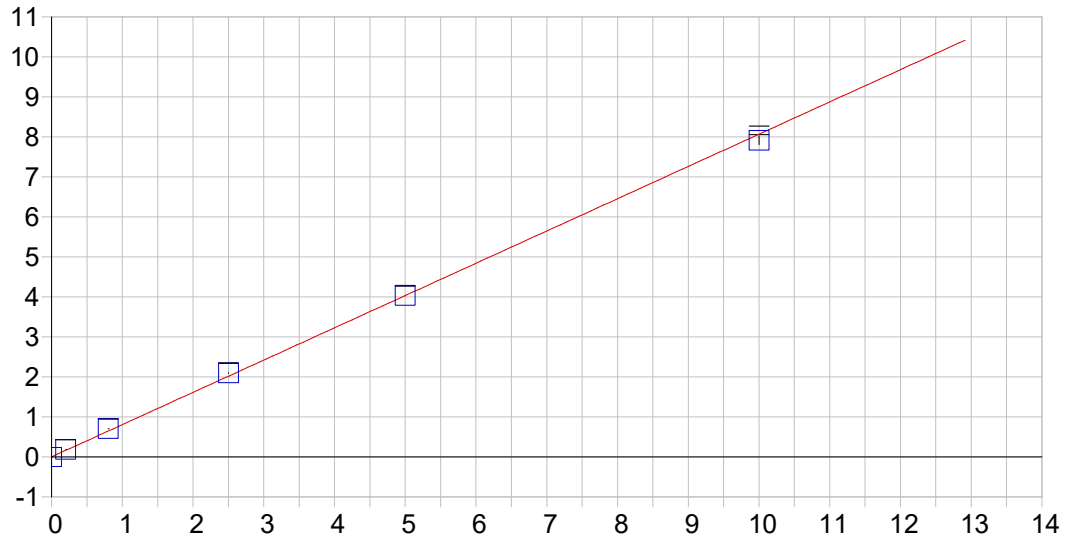
B 249.678 {135}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001240	Re-Slope:	1.000000
A1 (Gain):	0.430852	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999635	Status:	OK.
Std Error of Est:	0.000610		
Predicted MDL:	0.000684		
Predicted MQL:	0.002281		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00123	.000	1
S1	.10000	.11333	.013	13.3	.04988	.000	1
S3	2.5000	2.6177	.118	4.71	1.1270	.004	1
S4	5.0000	5.0260	.026	.520	2.1625	.015	1
S5	10.000	9.8028	-.197	-1.97	4.2164	.010	1
S2	.80000	.84024	.040	5.03	.36259	.001	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



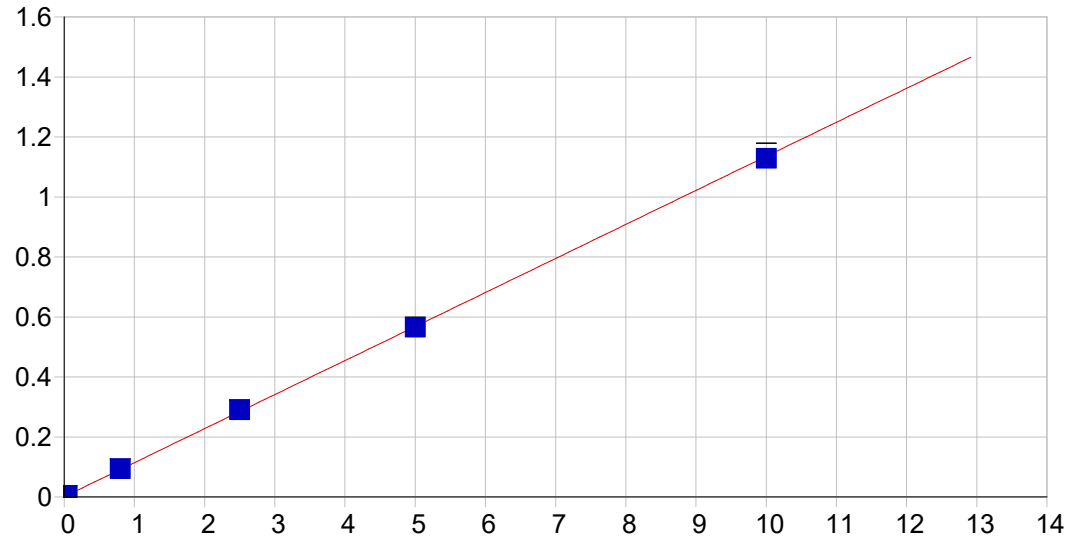
Mo 202.030 {467}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000210	Re-Slope:	1.000000
A1 (Gain):	0.806803	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999547	Status:	OK.
Std Error of Est:	0.001809		
Predicted MDL:	0.000266		
Predicted MQL:	0.000887		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00005	-.000	.000	.00017	.000	1
S1	.20000	.22583	.026	12.9	.18241	.000	1
S3	2.5000	2.5980	.098	3.92	2.0963	.007	1
S4	5.0000	4.9970	-.003	-.059	4.0318	.007	1
S5	10.000	9.8100	-.190	-1.90	7.9149	.110	1
S2	.80000	.86917	.069	8.65	.70146	.001	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



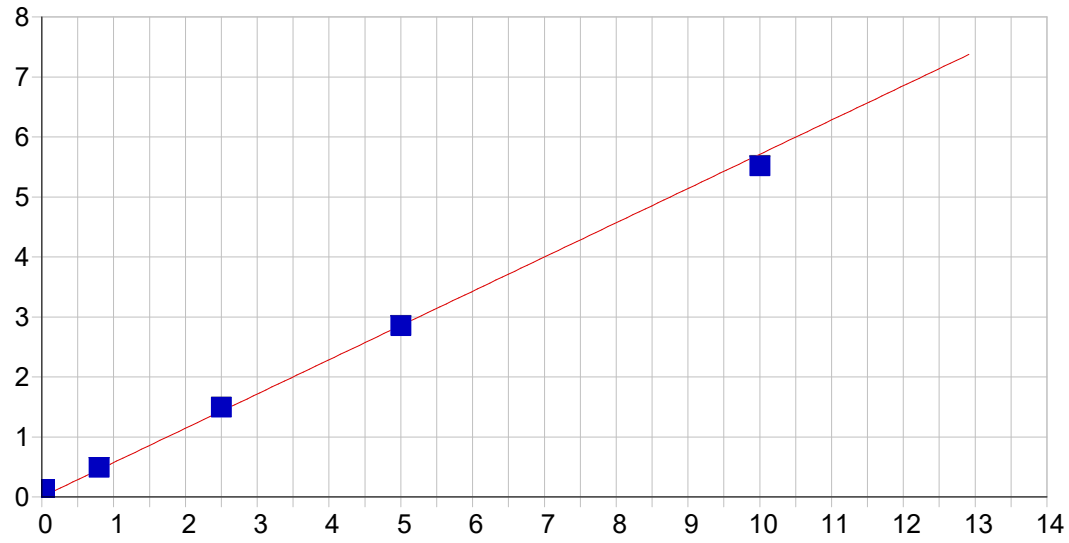
Sn 189.989 {478}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000672	Re-Slope:	1.000000
A1 (Gain):	0.113446	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999857	Status:	OK.
Std Error of Est:	0.000064		
Predicted MDL:	0.000854		
Predicted MQL:	0.002845		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00067	.000	1
S1	.04000	.05149	.011	28.7	.00651	.000	1
S3	2.5000	2.5479	.048	1.92	.28943	.000	1
S4	5.0000	4.9784	-.022	-.432	.56487	.001	1
S5	10.000	9.9406	-.059	-.594	1.1272	.018	1
S2	.80000	.82158	.022	2.70	.09378	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



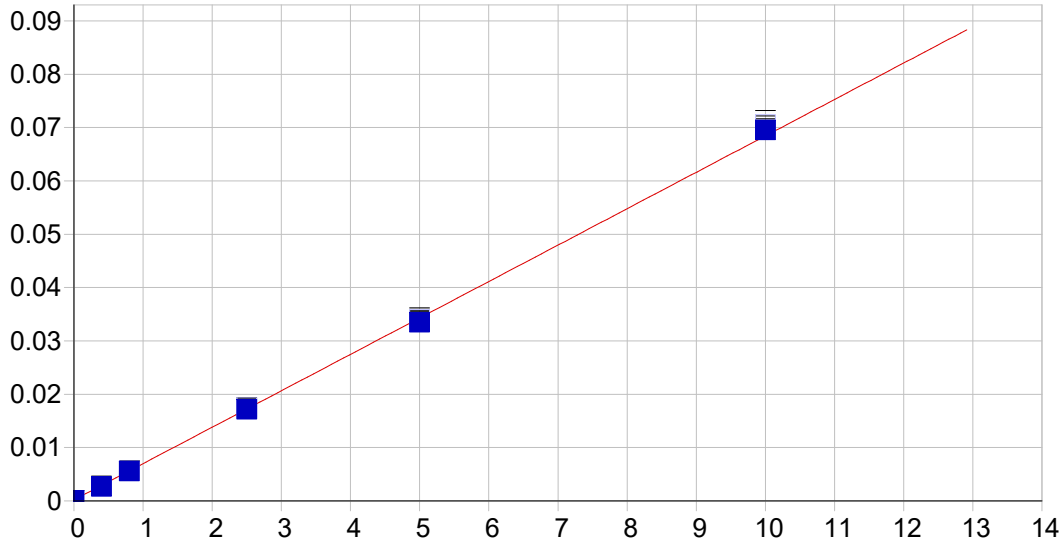
Ti 336.121 {100}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001829	Re-Slope:	1.000000
A1 (Gain):	0.570895	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.977123	Status:	OK.
Std Error of Est:	0.004118		
Predicted MDL:	0.000526		
Predicted MQL:	0.001753		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00019	-.000	.000	.00172	.000	1
S1	.04000	.22411	.184	460.	.12975	.001	1
S3	2.5000	2.6116	.112	4.46	1.4922	.002	1
S4	5.0000	4.9919	-.008	-.162	2.8507	.007	1
S5	10.000	9.6604	-.340	-3.40	5.5148	.010	1
S2	.80000	.85207	.052	6.51	.48810	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



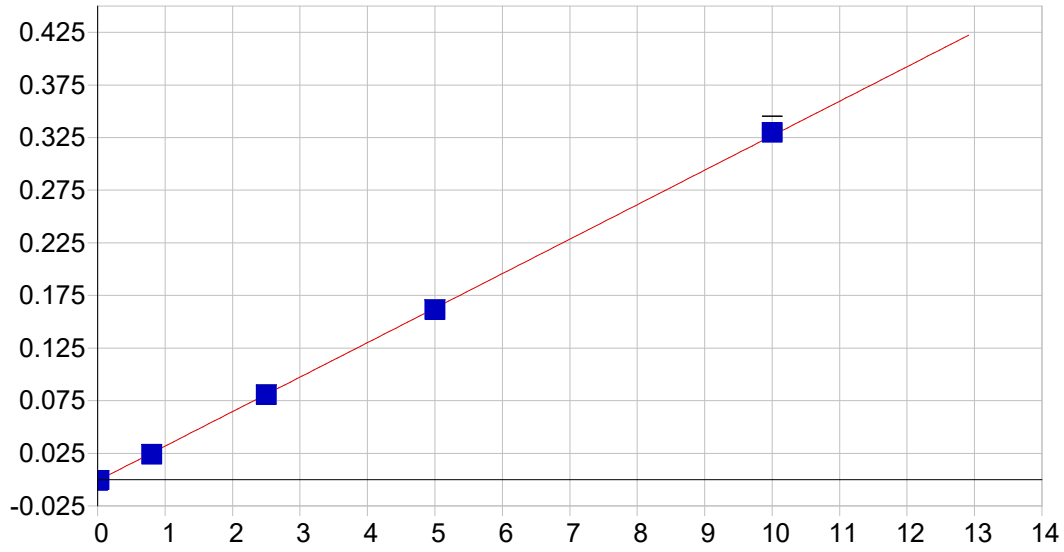
Si 288.158 {117}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000169	Re-Slope:	1.000000
A1 (Gain):	0.006827	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999812	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.006267		
Predicted MQL:	0.020890		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.00017	.000	1
S1	.40000	.37428	-.026	-6.43	.00273	.000	1
S3	2.5000	2.4928	-.007	-.288	.01744	.000	1
S4	5.0000	4.8824	-.118	-2.35	.03401	.000	1
S5	10.000	10.162	.162	1.62	.07057	.001	1
S2	.80000	.78824	-.012	-1.47	.00563	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



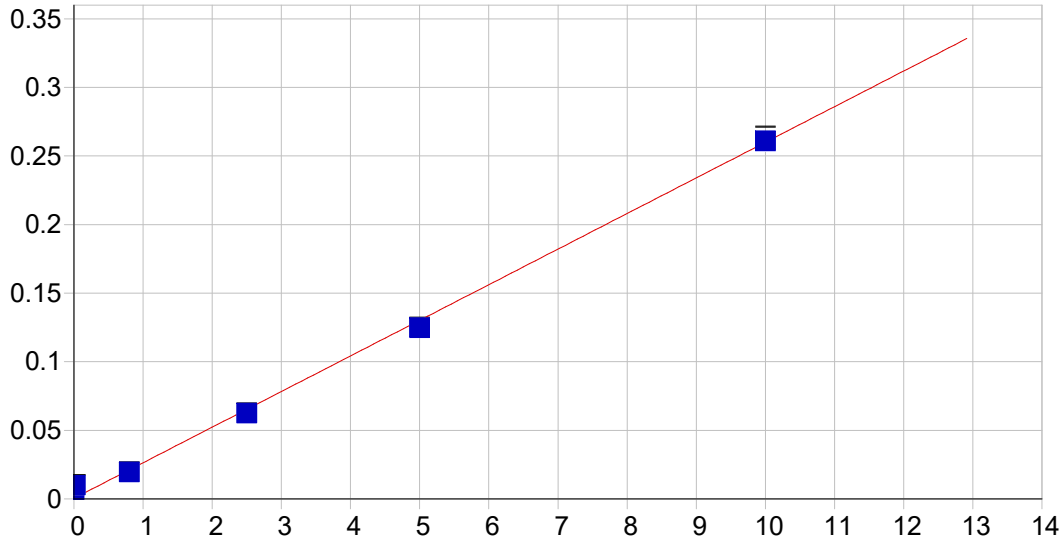
P 177.495 {490}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000960	Re-Slope:	1.000000
A1 (Gain):	0.032777	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999905	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.002690		
Predicted MQL:	0.008967		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00096	.000	1
S1	.02000	.01780	-.002	-11.0	-.00038	.000	1
S3	2.5000	2.4878	-.012	-.489	.08057	.000	1
S4	5.0000	4.9567	-.043	-.865	.16148	.000	1
S5	10.000	10.097	.097	.965	.32992	.006	1
S2	.80000	.76115	-.039	-4.86	.02398	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



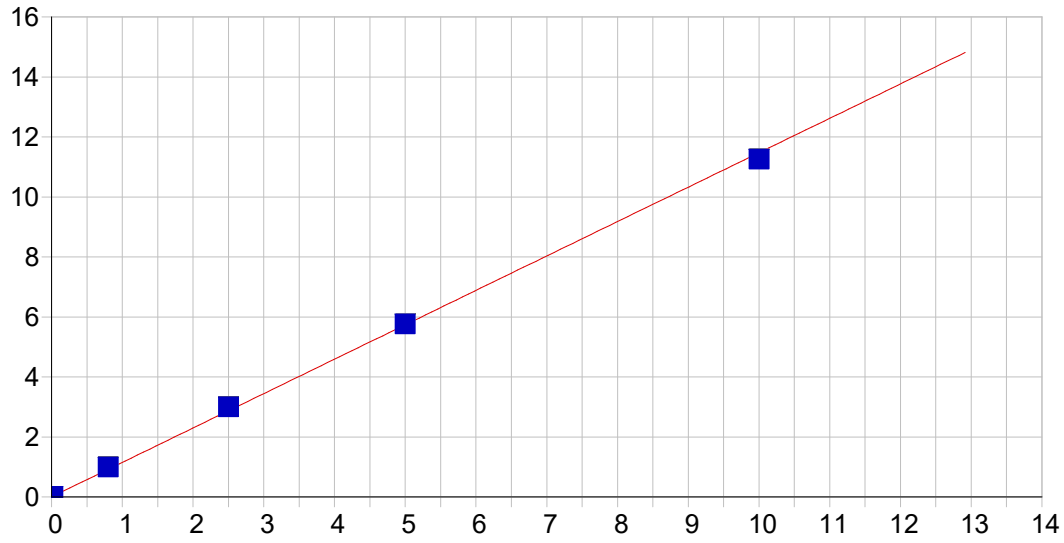
S 182.034 {485}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000410	Re-Slope:	1.000000
A1 (Gain):	0.025960	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.863157	Status:	OK.
Std Error of Est:	0.000355		
Predicted MDL:	0.003449		
Predicted MQL:	0.011498		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00035	-.000	.000	.00040	.000	1
S1	.02000	.37246	.352	1760.	.01006	.000	1
S3	2.5000	2.3925	-.107	-4.30	.06235	.000	1
S4	5.0000	4.7939	-.206	-4.12	.12452	.000	1
S5	10.000	10.040	.040	.404	.26038	.003	1
S2	.80000	.73478	-.065	-8.15	.01943	.000	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



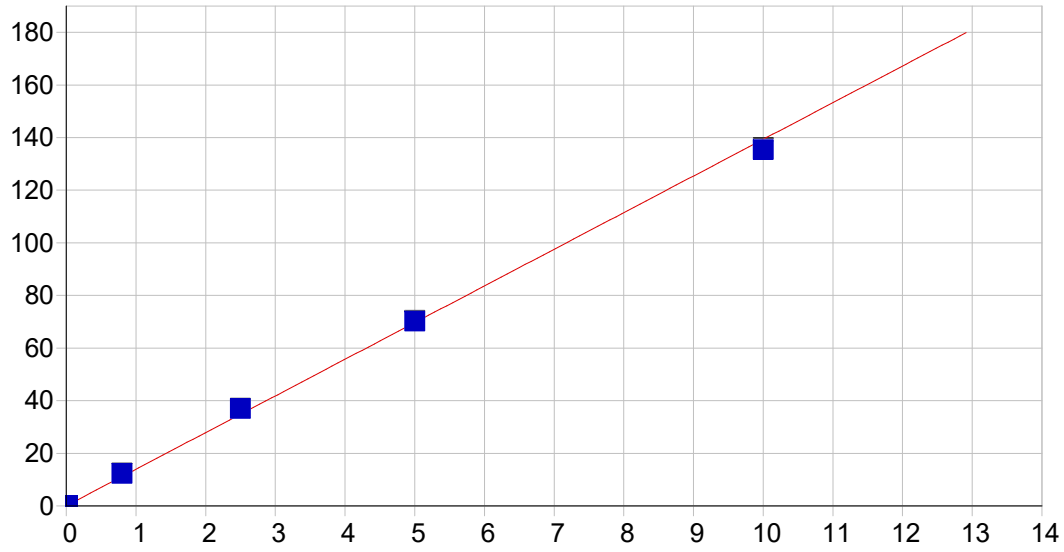
Li 670.784 { 50}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002629	Re-Slope:	1.000000
A1 (Gain):	1.146988	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999635	Status:	OK.
Std Error of Est:	0.000727		
Predicted MDL:	0.000716		
Predicted MQL:	0.002386		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00262	.000	1
S5	10.000	9.8069	-.193	-1.93	11.261	.002	1
S4	5.0000	5.0212	.021	.423	5.7670	.015	1
S3	2.5000	2.6091	.109	4.36	2.9978	.013	1
S1	.02000	.02235	.002	11.8	.02868	.000	1
S2	.80000	.86045	.060	7.56	.99038	.002	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



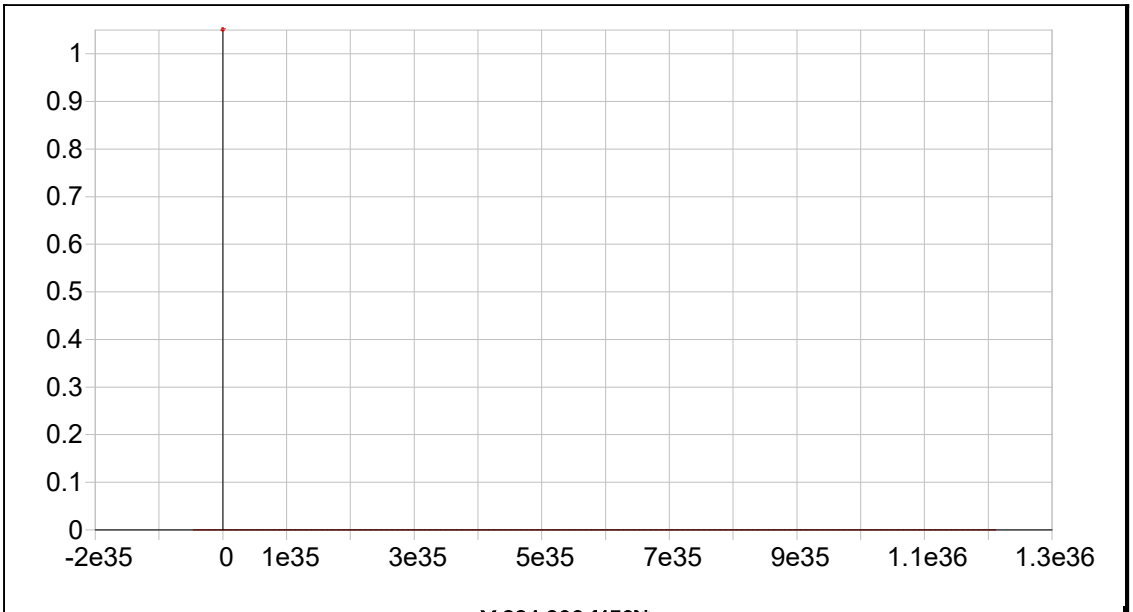
Sr 407.771 { 83}

Date of Fit:	11/19/2024 20:06:25	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001442	Re-Slope:	1.000000
A1 (Gain):	13.933771	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999267	Status:	OK.
Std Error of Est:	0.012519		
Predicted MDL:	0.000035		
Predicted MQL:	0.000118		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00137	.000	1
S1	.02000	.02246	.002	12.3	.31584	.000	1
S3	2.5000	2.6525	.152	6.10	36.995	.111	1
S4	5.0000	5.0390	.039	.780	70.283	.217	1
S5	10.000	9.7203	-.280	-2.80	135.58	.511	1
S2	.80000	.88580	.086	10.7	12.355	.003	1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

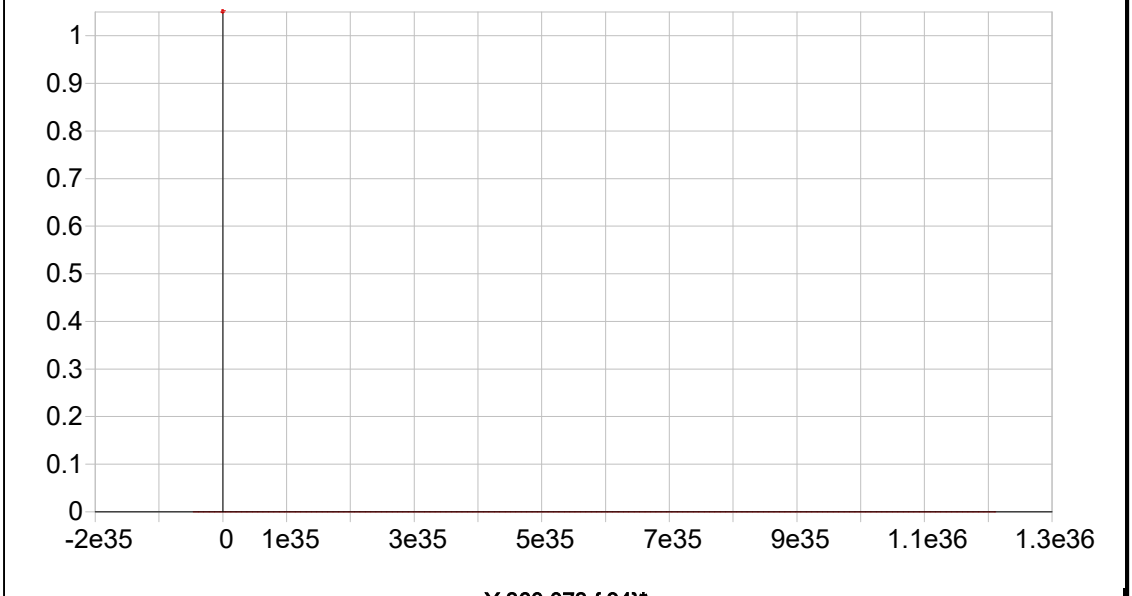


Y 224.306 {450}*

Date of Fit:	11/18/2024 12:31:27	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}*

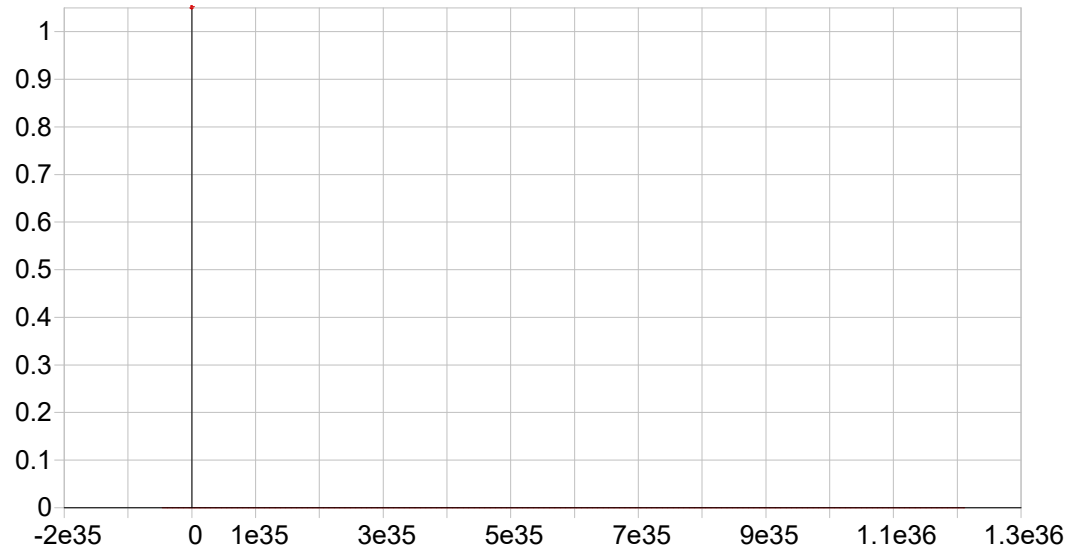
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

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



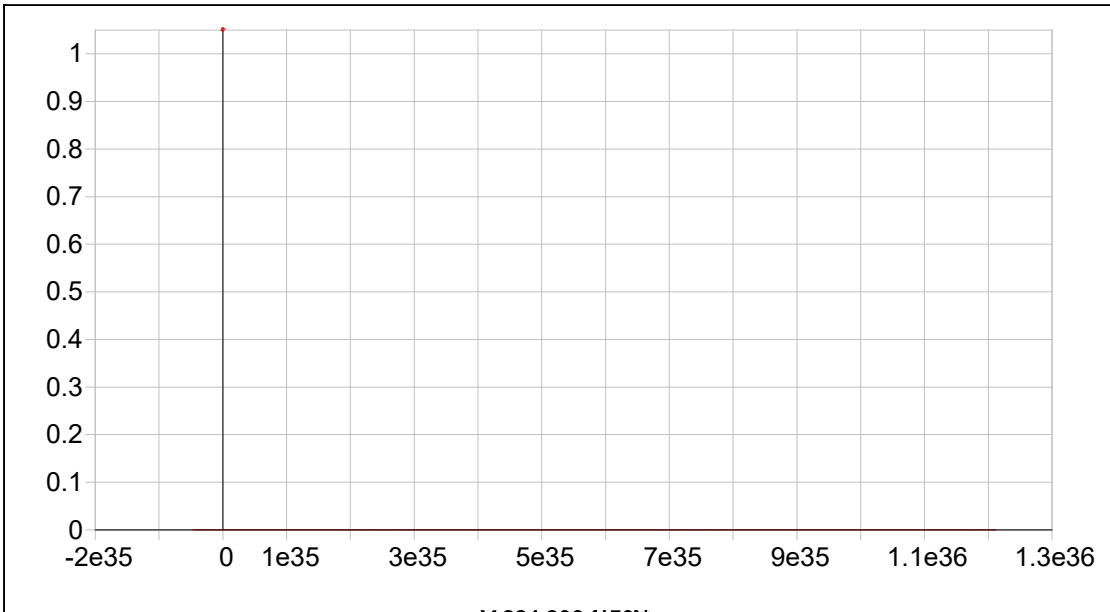
Y 371.030 { 91}*

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

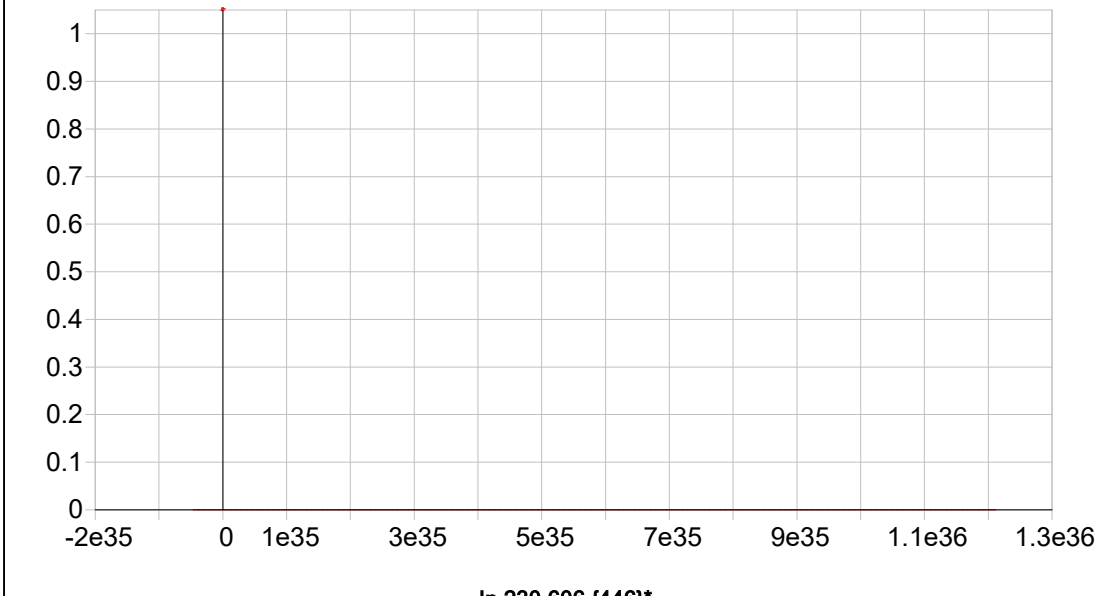
Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525



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:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

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:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S0 Acquired: 11/19/2024 19:40:58 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	-.00028	-.00002	-.00036	.00055	.00029	.00033	-.01930	-.00082
Stddev	.00006	.00012	.00030	.00011	.00011	.00019	.00122	.00016
%RSD	22.490	632.97	83.677	19.287	39.419	58.927	6.3220	19.809
#1	-.00026	.00011	-.00035	.00053	.00040	.00055	-.02059	-.00073
#2	-.00035	-.00005	-.00065	.00066	.00029	.00025	-.01817	-.00101
#3	-.00023	-.00012	-.00006	.00045	.00017	.00018	-.01913	-.00073

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00008	.00221	-.00001	-.00006	.00005	.00004	.00006	-.00025
Stddev	.00006	.00047	.00003	.00017	.00027	.00000	.00017	.00013
%RSD	70.681	21.474	262.59	293.95	548.43	10.964	298.94	52.008
#1	.00015	.00210	.00001	.00007	.00003	.00004	.00009	-.00038
#2	.00004	.00180	-.00004	.00000	.00033	.00004	.00021	-.00026
#3	.00006	.00273	.00000	-.00024	-.00021	.00003	-.00013	-.00012

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00007	-.00151	.01697	-.00017	.00746	.00212	.00123	.00017
Stddev	.00006	.00008	.00047	.00018	.00012	.00013	.00007	.00018
%RSD	88.652	5.2379	2.7804	110.23	1.6048	6.2430	6.0783	106.24
#1	.00002	-.00149	.01647	-.00004	.00758	.00202	.00124	.00000
#2	.00014	-.00159	.01706	-.00038	.00746	.00208	.00115	.00037
#3	.00005	-.00144	.01740	-.00009	.00734	.00227	.00130	.00015

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00067	.00172	.00017	-.00096	.00040	.00262	.00137
Stddev	.00002	.00010	.00001	.00005	.00004	.00045	.00029
%RSD	3.6569	5.5573	7.9011	5.2944	10.315	17.320	21.576
#1	.00065	.00163	.00018	-.00090	.00040	.00216	.00166
#2	.00070	.00172	.00016	-.00098	.00036	.00265	.00136
#3	.00067	.00182	.00017	-.00099	.00044	.00306	.00107

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S0 Acquired: 11/19/2024 19:40:58 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2454.1	55867.	11326.	1910.4	4145.7
Stddev	2.1	52.	23.	6.4	1.1
%RSD	.08376	.09230	.20399	.33634	.02618
#1	2451.8	55866.	11317.	1909.6	4145.0
#2	2454.7	55815.	11308.	1917.3	4145.2
#3	2455.8	55918.	11352.	1904.5	4147.0

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S1 Acquired: 11/19/2024 19:45:21 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.00111	.00245	.00261	.00251	.01117	.00969	.43144	.02274
Stddev	.00008	.00009	.00024	.00008	.00012	.00046	.00115	.00019
%RSD	7.2628	3.6538	9.1765	3.0813	1.0333	4.7131	.26768	.81792
#1	.00117	.00255	.00261	.00249	.01109	.00933	.43154	.02252
#2	.00102	.00242	.00238	.00245	.01130	.01020	.43024	.02284
#3	.00115	.00238	.00286	.00260	.01113	.00953	.43254	.02285

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01667	.09967	.00216	.02791	.01889	.00068	.01692	.02458
Stddev	.00003	.00081	.00004	.00013	.00010	.00001	.00013	.00030
%RSD	.20491	.81530	1.9321	.46797	.54724	.95415	.77957	1.2082
#1	.01666	.09883	.00217	.02806	.01898	.00067	.01687	.02446
#2	.01671	.09972	.00212	.02783	.01878	.00068	.01707	.02436
#3	.01664	.10045	.00220	.02784	.01891	.00067	.01682	.02492

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02619	.00249	.09606	.00580	.11435	.01799	.04988	.18241
Stddev	.00025	.00002	.00053	.00020	.00058	.00002	.00046	.00026
%RSD	.96686	.68762	.55267	3.3807	.51025	.10234	.91915	.14128
#1	.02649	.00251	.09630	.00581	.11462	.01797	.04948	.18265
#2	.02603	.00248	.09642	.00600	.11475	.01801	.04979	.18245
#3	.02607	.00248	.09545	.00560	.11368	.01800	.05038	.18214

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00651	.12975	.00273	-.00038	.01006	.02868	.31584
Stddev	.00008	.00089	.00002	.00007	.00012	.00006	.00042
%RSD	1.1538	.68288	.59360	17.360	1.1778	.20060	.13276
#1	.00645	.12950	.00272	-.00037	.01015	.02862	.31630
#2	.00659	.12902	.00272	-.00031	.00992	.02872	.31549
#3	.00648	.13074	.00275	-.00044	.01010	.02871	.31573

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S1 Acquired: 11/19/2024 19:45:21 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2456.1	55737.	11589.	1887.3	4116.1
Stddev	13.9	168.	11.	10.3	22.7
%RSD	.56766	.30117	.09854	.54376	.55191
#1	2446.6	55625.	11588.	1876.6	4099.9
#2	2449.6	55655.	11601.	1888.3	4106.3
#3	2472.1	55930.	11579.	1897.0	4142.1

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S2 Acquired: 11/19/2024 19:49:40 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.04989	.05541	.19195	.07690	.17055	.13538	6.6856	.15791
Stddev	.00018	.00094	.00044	.00053	.00019	.00052	.0076	.00062
%RSD	.35714	1.6931	.22751	.69360	.11149	.38266	.11367	.39013
#1	.05007	.05643	.19148	.07741	.17074	.13595	6.6870	.15774
#2	.04989	.05459	.19235	.07634	.17036	.13523	6.6924	.15859
#3	.04972	.05520	.19203	.07695	.17054	.13494	6.6774	.15740

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.88103	.18954	.03474	.36305	.17175	.00522	.31326	.04671
Stddev	.00206	.00097	.00010	.00067	.00031	.00008	.00169	.00010
%RSD	.23401	.51423	.28306	.18457	.18120	1.4444	.53983	.20578
#1	.87918	.18847	.03466	.36236	.17175	.00515	.31134	.04671
#2	.88067	.18978	.03485	.36307	.17206	.00522	.31395	.04681
#3	.88325	.19037	.03470	.36370	.17143	.00530	.31450	.04662

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.25844	.07237	.16787	.05742	1.0369	.03232	.36259	.70146
Stddev	.00051	.00008	.00029	.00017	.0025	.00017	.00126	.00135
%RSD	.19651	.10887	.17136	.29976	.24430	.51209	.34867	.19175
#1	.25785	.07228	.16796	.05731	1.0394	.03218	.36117	.70301
#2	.25878	.07240	.16810	.05762	1.0343	.03228	.36297	.70074
#3	.25867	.07244	.16755	.05733	1.0371	.03251	.36361	.70063

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09378	.48810	.00563	.02398	.01943	.99038	12.355
Stddev	.00008	.00041	.00005	.00012	.00013	.00242	.003
%RSD	.08982	.08395	.93507	.49803	.67825	.24434	.02536
#1	.09381	.48780	.00560	.02409	.01954	.98991	12.352
#2	.09369	.48857	.00561	.02385	.01929	.99300	12.359
#3	.09385	.48795	.00569	.02401	.01946	.98823	12.355

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S2 Acquired: 11/19/2024 19:49:40 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2517.8	57105.	11956.	1952.0	4150.3
Stddev	8.2	46.	5.	8.2	8.3
%RSD	.32711	.07996	.04442	.41999	.19992
#1	2511.1	57058.	11952.	1942.9	4143.8
#2	2515.3	57110.	11954.	1954.5	4147.4
#3	2527.0	57149.	11962.	1958.7	4159.6

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S3 Acquired: 11/19/2024 19:53:46 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.15461	.16775	.59466	.23477	.52165	.41561	20.457	.49564
Stddev	.00065	.00145	.00034	.00101	.00139	.00065	.165	.00210
%RSD	.42317	.86724	.05746	.43167	.26578	.15750	.80603	.42318
#1	.15532	.16908	.59467	.23577	.52306	.41523	20.602	.49768
#2	.15447	.16798	.59431	.23479	.52161	.41523	20.492	.49349
#3	.15403	.16620	.59499	.23374	.52029	.41637	20.278	.49575

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.7594	.57894	.10653	1.1233	.51955	.01650	.96257	.14617
Stddev	.0006	.00259	.00040	.0003	.00121	.00015	.00398	.00062
%RSD	.02264	.44695	.37111	.02940	.23352	.90572	.41336	.42246
#1	2.7593	.57595	.10694	1.1231	.52092	.01632	.95898	.14579
#2	2.7600	.58037	.10651	1.1237	.51911	.01658	.96685	.14584
#3	2.7588	.58048	.10615	1.1231	.51861	.01659	.96188	.14689

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.79743	.22532	.48705	.17722	3.1659	.09680	1.1270	2.0963
Stddev	.00049	.00061	.00153	.00095	.0066	.00071	.0041	.0069
%RSD	.06168	.27025	.31373	.53504	.20944	.72874	.36413	.32798
#1	.79702	.22579	.48635	.17619	3.1621	.09639	1.1317	2.1026
#2	.79729	.22555	.48880	.17742	3.1735	.09761	1.1244	2.0973
#3	.79798	.22463	.48599	.17805	3.1620	.09640	1.1248	2.0889

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.28943	1.4922	.01744	.08057	.06235	2.9978	36.995
Stddev	.00024	.0019	.00009	.00005	.00010	.0127	.111
%RSD	.08209	.13076	.54341	.06000	.16407	.42461	.29912
#1	.28970	1.4905	.01734	.08051	.06244	3.0053	37.089
#2	.28935	1.4943	.01749	.08058	.06237	3.0050	37.023
#3	.28924	1.4920	.01751	.08061	.06224	2.9831	36.873

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S3 Acquired: 11/19/2024 19:53:46 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2525.7	56401.	11997.	1955.1	4029.2
Stddev	9.1	236.	27.	11.5	8.9
%RSD	.36180	.41860	.22420	.59032	.22036
#1	2516.0	56534.	11994.	1967.0	4019.1
#2	2527.0	56128.	11972.	1944.0	4032.5
#3	2534.2	56541.	12025.	1954.1	4035.9

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S4 Acquired: 11/19/2024 19:58:01 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.30282	.32101	1.1560	.45963	1.0242	.79856	38.852	.94978
Stddev	.00007	.00243	.0003	.00051	.0010	.00016	.225	.00673
%RSD	.02230	.75545	.02802	.11045	.10110	.01942	.57975	.70883
#1	.30290	.32351	1.1558	.46022	1.0244	.79845	39.101	.95749
#2	.30277	.31867	1.1558	.45931	1.0231	.79874	38.794	.94679
#3	.30280	.32085	1.1564	.45937	1.0251	.79849	38.662	.94506

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.4222	1.1054	.20434	2.2000	1.0059	.03156	1.8179	.27939
Stddev	.0063	.0054	.00059	.0034	.0004	.00007	.0105	.00243
%RSD	.11640	.48530	.28805	.15526	.03956	.22024	.57991	.87131
#1	5.4178	1.1101	.20435	2.1973	1.0056	.03163	1.8287	.28115
#2	5.4193	1.0995	.20493	2.1990	1.0058	.03156	1.8076	.27661
#3	5.4294	1.1066	.20375	2.2039	1.0064	.03149	1.8172	.28041

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.5583	.43491	.93578	.34034	6.0789	.18547	2.1625	4.0318
Stddev	.0025	.00042	.00662	.00115	.0125	.00107	.0148	.0074
%RSD	.16008	.09753	.70751	.33694	.20591	.57437	.68637	.18248
#1	1.5560	.43451	.92900	.34095	6.0728	.18435	2.1794	4.0322
#2	1.5581	.43535	.94223	.33901	6.0705	.18647	2.1518	4.0243
#3	1.5609	.43486	.93610	.34104	6.0933	.18558	2.1563	4.0390

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.56487	2.8507	.03401	.16148	.12452	5.7670	70.283
Stddev	.00098	.0067	.00028	.00008	.00043	.0153	.217
%RSD	.17361	.23391	.81118	.04976	.34867	.26594	.30809
#1	.56455	2.8583	.03370	.16154	.12492	5.7798	70.197
#2	.56409	2.8477	.03413	.16139	.12406	5.7712	70.123
#3	.56597	2.8460	.03422	.16151	.12459	5.7500	70.529

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S4 Acquired: 11/19/2024 19:58:01 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2458.3	55849.	11978.	1930.2	3843.3
Stddev	3.8	99.	63.	7.4	6.6
%RSD	.15317	.17815	.52422	.38380	.17276
#1	2458.9	55956.	11908.	1937.1	3847.0
#2	2461.7	55760.	12028.	1931.2	3847.2
#3	2454.3	55829.	11998.	1922.4	3835.6

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S5 Acquired: 11/19/2024 20:02:14 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	.61606	.63118	2.3184	.93727	2.0834	1.5799	74.132	1.8386
Stddev	.00814	.00282	.0406	.01070	.0265	.0036	.224	.0036
%RSD	1.3217	.44685	1.7504	1.1415	1.2705	.22714	.30242	.19554
#1	.61158	.63101	2.2939	.93129	2.0685	1.5758	73.960	1.8370
#2	.61114	.62845	2.2961	.93091	2.0678	1.5820	74.049	1.8428
#3	.62546	.63408	2.3653	.94963	2.1140	1.5820	74.385	1.8362

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.900	2.1304	.39911	4.4057	1.9927	.06168	3.4341	.55751
Stddev	.193	.0090	.00184	.0784	.0277	.00037	.0102	.00192
%RSD	1.7706	.42203	.46007	1.7801	1.3919	.60140	.29773	.34480
#1	10.784	2.1206	.39725	4.3585	1.9757	.06126	3.4253	.55534
#2	10.794	2.1324	.40092	4.3624	1.9777	.06184	3.4318	.55901
#3	11.123	2.1382	.39917	4.4962	2.0247	.06195	3.4453	.55817

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.1061	.87371	1.9023	.65959	11.804	.37234	4.2164	7.9149
Stddev	.0566	.00113	.0034	.00153	.034	.00099	.0097	.1097
%RSD	1.8229	.12948	.17660	.23164	.28519	.26497	.22976	1.3855
#1	3.0727	.87265	1.8986	.65790	11.836	.37133	4.2261	7.8524
#2	3.0741	.87490	1.9050	.66002	11.769	.37239	4.2163	7.8509
#3	3.1715	.87358	1.9033	.66086	11.809	.37331	4.2067	8.0415

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1272	5.5148	.07057	.32992	.26038	11.261	135.58
Stddev	.0183	.0098	.00079	.00604	.00346	.002	.51
%RSD	1.6230	.17824	1.1219	1.8320	1.3295	.01685	.37705
#1	1.1148	5.5043	.06973	.32744	.25860	11.263	136.11
#2	1.1186	5.5164	.07068	.32551	.25818	11.259	135.09
#3	1.1483	5.5238	.07131	.33681	.26437	11.262	135.54

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: S5 Acquired: 11/19/2024 20:02:14 Type: Cal
Method: NON EPA-6010-200.7(v2475) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: 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	2461.6	56676.	12567.	1968.2	3775.8
Stddev	28.1	90.	11.	15.2	52.3
%RSD	1.1397	.15851	.08647	.77340	1.3840
#1	2478.8	56778.	12554.	1953.1	3808.2
#2	2476.9	56639.	12573.	1983.6	3803.7
#3	2429.3	56609.	12573.	1967.8	3715.5

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: ICV01 Acquired: 11/19/2024 20:06:25 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9958427	1.017279	.9897179	1.017091	.9776688	2.519536
Stddev	.0013488	.008127	.0008170	.004644	.0003409	.006559
%RSD	.1354442	.7988467	.0825445	.4566441	.0348642	.2603108
#1	.9961929	1.022256	.9887763	1.012583	.9773873	2.517623
#2	.9943533	1.007902	.9902374	1.016828	.9780478	2.526839
#3	.9969819	1.021681	.9901401	1.021861	.9775713	2.514147

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4969102	.5008835	.5000526	9.911641	.5225840	.5003062
Stddev	.0019487	.0017423	.0012063	.002046	.0006867	.0005728
%RSD	.3921661	.3478350	.2412350	.0206416	.1313974	.1144959
#1	.4976642	.5024806	.4993774	9.911411	.5233238	.4997536
#2	.4983693	.5011442	.4993351	9.909719	.5219670	.5002678
#3	.4946972	.4990255	.5014453	9.913792	.5224612	.5008973

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5167708	9.783890	.5052926	5.922445	.5019866	.2507081
Stddev	.0004485	.014433	.0010637	.008966	.0004111	.0003769
%RSD	.0867868	.1475165	.2105205	.1513930	.0818963	.1503369
#1	.5162952	9.774199	.5062904	5.914338	.5019092	.2510451
#2	.5171861	9.800477	.5054139	5.920922	.5016197	.2503011
#3	.5168312	9.776992	.5041734	5.932075	.5024309	.2507781

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.618913	.4933239	1.029817	9.578057	2.356645	2.424253
Stddev	.015416	.0010045	.002247	.021004	.006414	.001714
%RSD	.1602704	.2036151	.2182261	.2192884	.2721749	.0706986
#1	9.606396	.4924600	1.028440	9.556115	2.363651	2.422418
#2	9.614210	.4944261	1.028601	9.580081	2.355224	2.424528
#3	9.636133	.4930855	1.032411	9.597975	2.351061	2.425813

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: ICV01 Acquired: 11/19/2024 20:06:25 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.322443	2.343388	F 1.903776	F .0042456	F -.011007	F -.001826
Stddev	.003958	.006556	.002049	.0007931	.000656	.000048
%RSD	.1704342	.2797467	.1076209	18.68134	5.961228	2.636191
#1	2.318418	2.342629	1.902403	.0036209	-.010704	-.001878
#2	2.322580	2.350289	1.906131	.0051379	-.010556	-.001783
#3	2.326331	2.337244	1.902794	.0039780	-.011760	-.001818

Elem	Sr4077
Units	ppm
Avg	F -.008427
Stddev	.000021
%RSD	.2475167
#1	-.008405
#2	-.008446
#3	-.008430

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2699.948	60882.21	13271.88	2148.087	4395.490
Stddev	6.864	120.99	40.82	.624	7.493
%RSD	.2542134	.1987261	.3075412	.0290266	.1704684
#1	2702.059	60795.35	13225.87	2147.706	4398.463
#2	2692.277	61020.40	13285.99	2148.806	4386.967
#3	2705.509	60830.88	13303.76	2147.748	4401.040

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: LLICV01 Acquired: 11/19/2024 20:10:27 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0217002	.0382840	.0119406	.0184506	.0487345	.0991627
Stddev	.0006282	.0006344	.0002047	.0008865	.0009571	.0089786
%RSD	2.894752	1.657144	1.714190	4.804846	1.963989	9.054355
#1	.0209779	.0384108	.0117701	.0177535	.0491570	.1094658
#2	.0220038	.0388454	.0118840	.0194483	.0476388	.0950107
#3	.0221190	.0375957	.0121676	.0181499	.0494076	.0930117

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1013283	.0058573	.0071083	2.060830	.0103460	.0289494
Stddev	.0004500	.0000153	.0000121	.004393	.0003524	.0003881
%RSD	.4441283	.2608462	.1708546	.2131634	3.406154	1.340462
#1	.1009908	.0058730	.0071209	2.055832	.0107468	.0292361
#2	.1018393	.0058565	.0070966	2.064080	.0102065	.0291044
#3	.1011549	.0058425	.0071074	2.062577	.0100847	.0285078

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213242	.0945205	.0207025	2.063709	.0383484	.0104055
Stddev	.0001198	.0025222	.0002074	.022514	.0001089	.0001279
%RSD	.5619840	2.668407	1.001615	1.090971	.2840657	1.228851
#1	.0212971	.0953156	.0207335	2.051577	.0384374	.0102579
#2	.0214553	.0965494	.0208927	2.049863	.0382269	.0104787
#3	.0212203	.0916966	.0204814	2.089688	.0383808	.0104799

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.783222	.0426286	.0446624	1.849043	.1181876	.2077712
Stddev	.017861	.0012860	.0002612	.028748	.0008260	.0005830
%RSD	1.001590	3.016769	.5849510	1.554731	.6988941	.2805937
#1	1.762954	.0435801	.0447150	1.818008	.1191013	.2083049
#2	1.790052	.0431401	.0448933	1.854359	.1179678	.2078598
#3	1.796659	.0411655	.0443788	1.874762	.1174937	.2071491

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: LLICV01 Acquired: 11/19/2024 20:10:27 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0477824	F .2002457	.3513933	.0167602	F .3405909	.0185723
Stddev	.0006773	.0011580	.0054023	.0012717	.0023019	.0003075
%RSD	1.417444	.5783073	1.537400	7.587319	.6758559	1.655454
#1	.0483085	.1998005	.3557509	.0175702	.3432230	.0182740
#2	.0480206	.2015603	.3453488	.0152945	.3395959	.0185547
#3	.0470182	.1993764	.3530803	.0174158	.3389539	.0188881

Elem	Sr4077
Units	ppm
Avg	.0211868
Stddev	.0000623
%RSD	.2939504
#1	.0211184
#2	.0212401
#3	.0212020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2693.402	59588.85	12587.31	2101.941	4469.695
Stddev	15.531	75.19	45.24	12.072	19.872
%RSD	.5766155	.1261887	.3594121	.5743300	.4445836
#1	2676.113	59513.32	12542.41	2095.482	4448.202
#2	2697.922	59589.55	12586.64	2094.473	4473.484
#3	2706.171	59663.70	12632.89	2115.869	4487.400

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: ICB01 Acquired: 11/19/2024 20:14:44 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000696	-.001766	-.000257	-.000712	-.000483	.0007883	-.000208
Stddev	.0015836	.001632	.000385	.001220	.000331	.0030478	.000563
%RSD	2273.546	92.39970	150.0169	171.4026	68.54092	386.6493	270.7570
#1	-.000656	-.003310	.000169	.000337	-.000103	-.001194	-.000276
#2	-.001022	-.000058	-.000357	-.000421	-.000708	-.000738	-.000734
#3	.001886	-.001932	-.000582	-.002051	-.000637	.004298	.000386

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000117	-.000141	-.022909	-.000168	-.000073	-.000094	-.005925
Stddev	.0000235	.000066	.006829	.000389	.000063	.000133	.003948
%RSD	200.4451	46.77608	29.80961	230.8740	87.10739	140.9098	66.63269
#1	.0000110	-.000131	-.015042	-.000390	-.000016	-.000247	-.001367
#2	-.000011	-.000212	-.026380	.000281	-.000141	-.000031	-.008131
#3	.000036	-.000081	-.027306	-.000395	-.000062	-.000005	-.008277

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000015	.0099951	-.000168	.0003692	-.199032	.0014793	-.001406
Stddev	.000154	.0064985	.000259	.0001252	.014565	.0007629	.000105
%RSD	1031.211	65.01688	154.5432	33.91281	7.317793	51.56817	7.459034
#1	-.000112	.0076626	-.000449	.0003807	-.211438	.0006151	-.001515
#2	-.000096	.0049848	-.000116	.0004883	-.202663	.0017641	-.001397
#3	.000163	.0173380	.000062	.0002387	-.182995	.0020589	-.001306

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.093574	.0108372	.0000574	.0091638	.0002346	.0009007	-.003447
Stddev	.024694	.0003374	.0001200	.0004107	.0004839	.0064440	.000548
%RSD	26.39012	3.113519	209.2757	4.482200	206.2528	715.4752	15.89764
#1	-.116197	.0109266	.0001925	.0087065	.0005506	-.005173	-.004072
#2	-.097296	.0111209	-.000037	.0095015	.0004757	.007660	-.003219
#3	-.067230	.0104641	.000016	.0092833	-.000322	.000215	-.003049

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: ICB01 Acquired: 11/19/2024 20:14:44 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.009154	-.000857	-.000085
Stddev	.000861	.000275	.000027
%RSD	9.407841	32.11653	31.76229
#1	-.008775	-.001015	-.000116
#2	-.010140	-.000539	-.000064
#3	-.008548	-.001017	-.000076

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2775.487	61790.27	13005.34	2197.884	4673.562
Stddev	8.082	88.58	15.25	5.844	9.202
%RSD	.2911792	.1433585	.1172881	.2658764	.1968996
#1	2770.194	61690.13	12992.35	2198.948	4670.417
#2	2784.790	61858.39	13022.14	2191.582	4683.924
#3	2771.478	61822.28	13001.52	2203.123	4666.344

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: CRI01 Acquired: 11/19/2024 20:19:05 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0217589	.0372536	.0113313	.0172165	.0487582	.1019713
Stddev	.0016526	.0009739	.0008928	.0017801	.0008946	.0018502
%RSD	7.594967	2.614241	7.879406	10.33959	1.834796	1.814438
#1	.0221246	.0379055	.0111096	.0151646	.0488344	.1028348
#2	.0199541	.0377212	.0105702	.0183473	.0478279	.1032319
#3	.0231980	.0361341	.0123141	.0181377	.0496122	.0998472

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0999023	.0058598	.0071553	2.044695	.0104676	.0292239
Stddev	.0006516	.0000664	.0000609	.011962	.0001455	.0001615
%RSD	.6522540	1.132433	.8517393	.5850014	1.390314	.5525972
#1	.1004762	.0058630	.0072119	2.054881	.0103018	.0291644
#2	.0991939	.0057920	.0070908	2.031524	.0105741	.0291007
#3	.1000369	.0059246	.0071633	2.047681	.0105268	.0294067

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213295	.0921136	.0205974	2.069437	.0388087	.0103394
Stddev	.0000746	.0011634	.0002706	.017561	.0003119	.0000309
%RSD	.3497887	1.262965	1.313965	.8485661	.8037001	.2989885
#1	.0213259	.0933701	.0208951	2.079039	.0391038	.0103167
#2	.0212568	.0918969	.0205311	2.049169	.0384824	.0103268
#3	.0214059	.0910739	.0203661	2.080103	.0388401	.0103746

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.718903	.0412564	.0418135	1.796406	.1119803	.2073184
Stddev	.011454	.0004674	.0000667	.015160	.0015416	.0002240
%RSD	.6663577	1.132813	.1596463	.8438923	1.376624	.1080633
#1	1.707535	.0417796	.0418499	1.780476	.1136876	.2072078
#2	1.718733	.0408802	.0418542	1.798085	.1106904	.2075762
#3	1.730441	.0411095	.0417365	1.810655	.1115630	.2071712

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: CRI01 Acquired: 11/19/2024 20:19:05 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0476792	F .1980904	.3426305	.0156646	F .3392706	.0181571
Stddev	.0009343	.0020460	.0031784	.0031740	.0031432	.0003323
%RSD	1.959520	1.032876	.9276591	20.26234	.9264694	1.830327
#1	.0472363	.1992519	.3390239	.0190460	.3412582	.0185116
#2	.0487525	.1957280	.3450228	.0127495	.3356467	.0178525
#3	.0470487	.1992914	.3438448	.0151984	.3409067	.0181071

Elem	Sr4077
Units	ppm
Avg	.0209348
Stddev	.0001807
%RSD	.8631412
#1	.0210542
#2	.0207269
#3	.0210233

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2696.751	60249.28	12653.99	2154.416	4447.136
Stddev	3.778	136.60	82.16	13.228	2.377
%RSD	.1400869	.2267189	.6492480	.6139921	.0534586
#1	2697.982	60334.30	12582.39	2148.776	4447.731
#2	2692.512	60091.71	12743.68	2144.943	4444.517
#3	2699.760	60321.81	12635.91	2169.529	4449.159

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: ICSA01 Acquired: 11/19/2024 20:23:23 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074353	.0106207	.0092805	-.019150	-.004189	265.6201
Stddev	.0010913	.0005197	.0011886	.001031	.002380	.7730
%RSD	14.67733	4.893550	12.80700	5.381361	56.82464	.2910195
#1	.0083387	.0101937	.0105344	-.020037	-.006384	265.0385
#2	.0062228	.0111994	.0091368	-.019393	-.004523	265.3246
#3	.0077445	.0104689	.0081704	-.018020	-.001659	266.4973

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047224	.0013477	.0055315	247.4742	.0597470	.0023254
Stddev	.0002676	.0001149	.0000840	2.0503	.0004368	.0002503
%RSD	5.667653	8.524159	1.518807	.8284889	.7310729	10.76458
#1	.0049111	.0012186	.0056215	245.7964	.0595018	.0025093
#2	.0044161	.0014386	.0055177	246.8665	.0602513	.0024265
#3	.0048400	.0013860	.0054552	249.7596	.0594879	.0020403

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020576	101.1660	.0033820	279.8573	.0019356	-.000774
Stddev	.0014658	.7485	.0001430	2.5120	.0005253	.000377
%RSD	71.23871	.7398654	4.227217	.8975948	27.13918	48.65206
#1	.0036514	100.3277	.0034971	277.8443	.0019003	-.001115
#2	.0017538	101.4030	.0032220	279.0553	.0014288	-.000838
#3	.0007675	101.7673	.0034270	282.6724	.0024776	-.000370

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.061168	.0101108	.0059956	.0359124	.0517475	-.000608
Stddev	.019791	.0006209	.0002531	.0089783	.0012545	.000184
%RSD	32.35436	6.141129	4.220555	25.00044	2.424293	30.24853
#1	-.083575	.0094565	.0059676	.0425570	.0502995	-.000654
#2	-.053856	.0101841	.0062615	.0256983	.0524354	-.000765
#3	-.046075	.0106919	.0057578	.0394818	.0525076	-.000406

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: ICSA01 Acquired: 11/19/2024 20:23:23 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052110	-.001162	.0156901	.0035730	F -.021356	F -.041856
Stddev	.0002643	.000136	.0068835	.0018240	.002770	.000950
%RSD	5.071236	11.66226	43.87154	51.05051	12.96909	2.270863
#1	.0050668	-.001023	.0125105	.0024742	-.019402	-.042028
#2	.0050502	-.001170	.0109712	.0025663	-.020140	-.040832
#3	.0055160	-.001294	.0235887	.0056786	-.024525	-.042709

Elem	Sr4077
Units	ppm
Avg	.0063677
Stddev	.0003922
%RSD	6.159218
#1	.0067271
#2	.0059494
#3	.0064265

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2346.623	51536.58	12125.98	1857.074	3457.103
Stddev	13.306	75.53	30.64	5.312	15.691
%RSD	.5670186	.1465617	.2526757	.2860642	.4538827
#1	2338.604	51520.19	12135.90	1850.944	3447.686
#2	2339.282	51470.59	12150.43	1860.344	3448.407
#3	2361.982	51618.97	12091.61	1859.934	3475.217

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: ICSAB01 Acquired: 11/19/2024 20:27:46 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1154310	.1049521	.0576850	.0299576	.6135660	262.9336
Stddev	.0011206	.0022590	.0010359	.0033164	.0017132	.7314
%RSD	.9708253	2.152460	1.795697	11.07015	.2792122	.2781513
#1	.1141647	.1073145	.0570552	.0276406	.6127940	262.1857
#2	.1162948	.1028130	.0588805	.0284756	.6123748	262.9676
#3	.1158336	.1047289	.0571192	.0337565	.6155294	263.6473

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4934328	.5107024	1.030198	244.4395	.5825214	.5150418
Stddev	.0033336	.0018130	.003349	.9493	.0018240	.0013383
%RSD	.6755929	.3550052	.3250797	.3883574	.3131152	.2598414
#1	.4897187	.5088828	1.028211	243.3452	.5835136	.5144504
#2	.4944137	.5107156	1.028319	244.9303	.5804164	.5141010
#3	.4961658	.5125087	1.034065	245.0429	.5836341	.5165739

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4831456	99.96675	.4873663	278.6893	1.014348	.2020030
Stddev	.0011337	.26213	.0033070	1.6259	.002913	.0003138
%RSD	.2346432	.2622171	.6785537	.5834114	.2871309	.1553312
#1	.4821708	99.74221	.4841467	276.9821	1.013728	.2018240
#2	.4828763	99.90323	.4871979	278.8664	1.011795	.2018196
#3	.4843896	100.2548	.4907544	280.2194	1.017520	.2023653

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.078823	.5007619	1.093556	-.050701	.9447726	.9672493
Stddev	.018412	.0011769	.003958	.017512	.0056894	.0037901
%RSD	23.35897	.2350135	.3619490	34.53963	.6021993	.3918405
#1	-.096618	.4994447	1.091592	-.058173	.9395115	.9631274
#2	-.080001	.5011312	1.098112	-.063238	.9439958	.9680367
#3	-.059850	.5017098	1.090965	-.030693	.9508105	.9705838

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: ICSAB01 Acquired: 11/19/2024 20:27:46 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9733884	.9300963	F .8390051	F .0096162	F -.024222	F -.041832
Stddev	.0035252	.0050537	.0054713	.0015658	.002915	.000630
%RSD	.3621591	.5433500	.6521201	16.28247	12.03301	1.505019
#1	.9696829	.9243463	.8435511	.0108168	-.023771	-.041246
#2	.9737820	.9321093	.8329326	.0078452	-.021559	-.042497
#3	.9767003	.9338332	.8405315	.0101865	-.027335	-.041753

Elem	Sr4077
Units	ppm
Avg	F .0075236
Stddev	.0001156
%RSD	1.535916
#1	.0074491
#2	.0076567
#3	.0074650

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2313.011	51663.52	12210.78	1848.305	3424.539
Stddev	6.173	111.66	20.20	4.732	12.433
%RSD	.2669016	.2161331	.1654370	.2560141	.3630515
#1	2314.525	51574.06	12228.67	1851.484	3429.791
#2	2318.287	51788.66	12214.80	1842.867	3433.484
#3	2306.222	51627.85	12188.87	1850.564	3410.342

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: CCV01 Acquired: 11/19/2024 20:38:39 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.812796	4.827509	4.860757	4.743672	4.854475	9.757123	9.257960
Stddev	.017923	.036757	.021099	.013107	.020270	.012694	.038643
%RSD	.3723963	.7614069	.4340655	.2763054	.4175486	.1301011	.4174021
#1	4.792664	4.823394	4.842599	4.731323	4.831245	9.765425	9.300532
#2	4.818705	4.866150	4.855768	4.757424	4.863609	9.742510	9.225097
#3	4.827017	4.792982	4.883903	4.742270	4.868570	9.763434	9.248252

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2431694	2.424390	24.01748	1.013860	2.418512	1.222041	4.924750
Stddev	.0009862	.009166	.05150	.001796	.009506	.005243	.042701
%RSD	.4055444	.3780869	.2144303	.1771704	.3930645	.4290052	.8670626
#1	.2441040	2.417846	24.00167	1.013027	2.410756	1.216091	4.878207
#2	.2421388	2.420458	23.97574	1.015921	2.415663	1.224052	4.933928
#3	.2432655	2.434866	24.07503	1.012631	2.429117	1.225980	4.962116

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.345722	24.72895	2.421840	1.246845	25.02329	2.424141	2.517877
Stddev	.014938	.05838	.010559	.000743	.09907	.007646	.006965
%RSD	.6368306	.2360820	.4360097	.0595876	.3959002	.3154155	.2766294
#1	2.339089	24.73263	2.415083	1.246010	24.96061	2.415976	2.514124
#2	2.335248	24.66882	2.416429	1.247093	25.13750	2.431132	2.525914
#3	2.362828	24.78540	2.434008	1.247432	24.97176	2.425316	2.513593

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.47732	4.792134	4.876193	4.864679	4.712401	5.064626	4.731313
Stddev	.04412	.021635	.017365	.014145	.012871	.034433	.032162
%RSD	.1802606	.4514793	.3561247	.2907794	.2731341	.6798817	.6797617
#1	24.44953	4.806381	4.856142	4.854180	4.712210	5.024888	4.696397
#2	24.45422	4.767238	4.886131	4.859093	4.699627	5.085658	4.737815
#3	24.52819	4.802783	4.886306	4.880765	4.725367	5.083331	4.759727

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: CCV01 Acquired: 11/19/2024 20:38:39 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.644504	4.688545	5.024420
Stddev	.016470	.011942	.028154
%RSD	.3546224	.2547020	.5603385
#1	4.632012	4.695541	5.054933
#2	4.638331	4.674757	4.999451
#3	4.663169	4.695339	5.018877

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2596.825	56652.50	12955.29	2044.944	4053.195
Stddev	10.303	73.58	44.66	5.248	13.938
%RSD	.3967498	.1298744	.3446998	.2566288	.3438660
#1	2608.687	56713.74	12920.30	2049.615	4067.165
#2	2591.684	56570.88	13005.59	2039.266	4053.128
#3	2590.105	56672.86	12939.98	2045.952	4039.290

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: CCB01 Acquired: 11/19/2024 20:47:46 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019446	-.001768	.0002689	-.001293	-.000976	-.004818	-.001783
Stddev	.0010946	.000907	.0003876	.001414	.000391	.001967	.000330
%RSD	56.29043	51.28395	144.1433	109.3811	40.12729	40.81851	18.49616
#1	.0013599	-.001369	.0002365	-.002165	-.000551	-.006959	-.002136
#2	.0012665	-.002805	.0006717	-.002052	-.001323	-.003091	-.001483
#3	.0032075	-.001129	-.000101	.000339	-.001053	-.004405	-.001729

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000539	-.000051	-.007583	.0002200	-.000003	-.000451	-.004851
Stddev	.0000144	.000038	.004112	.0001558	.000088	.000267	.001129
%RSD	26.70476	74.56498	54.23054	70.83228	2547.692	59.26300	23.26765
#1	.0000388	-.000007	-.003596	.0003835	-.000017	-.000367	-.005719
#2	.0000674	-.000069	-.007342	.0000732	.000091	-.000750	-.005259
#3	.0000555	-.000077	-.011809	.0002034	-.000085	-.000236	-.003575

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001488	.0102843	-.000131	.0003538	-.242122	.0003155	-.000047
Stddev	.0002551	.0020951	.000200	.0001458	.011700	.0006476	.000073
%RSD	171.4386	20.37224	152.0383	41.19598	4.832211	205.2387	154.8489
#1	.0000415	.0109599	-.000222	.0005215	-.253789	.0009115	-.000036
#2	.0004401	.0119582	-.000270	.0002827	-.242187	.0004087	.000020
#3	-.000035	.0079347	.000098	.0002573	-.230390	-.000374	-.000125

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.181747	.0066361	-.000032	-.003791	.0003116	.0025014	-.002305
Stddev	.019195	.0006691	.000162	.000253	.0001934	.0061134	.001491
%RSD	10.56161	10.08246	511.7704	6.665199	62.07141	244.3936	64.66291
#1	-.203706	.0072367	-.000116	-.003684	.0002763	.0032516	-.004009
#2	-.173372	.0059149	-.000134	-.004079	.0005201	.0082051	-.001243
#3	-.168162	.0067568	.000155	-.003609	.0001382	-.003952	-.001663

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: CCB01 Acquired: 11/19/2024 20:47:46 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.008835	-.001041	-.000104
Stddev	.000473	.000514	.000017
%RSD	5.348619	49.39923	16.44386
#1	-.009254	-.001629	-.000121
#2	-.008323	-.000814	-.000103
#3	-.008927	-.000679	-.000087

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2676.186	58719.18	13100.71	2157.937	4537.995
Stddev	3.616	56.24	26.59	10.221	5.589
%RSD	.1351052	.0957707	.2029782	.4736467	.1231499
#1	2676.821	58783.78	13090.14	2154.392	4541.258
#2	2679.442	58692.56	13081.03	2169.458	4541.185
#3	2672.294	58681.19	13130.96	2149.960	4531.542

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03DUP Acquired: 11/19/2024 20:56:44 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016874	-.009674	.0001777	.0007782	.0010667	-.023602	.3581733
Stddev	.0008835	.002688	.0019169	.0009464	.0002843	.006897	.0069525
%RSD	52.35478	27.78332	1078.444	121.6138	26.64735	29.22269	1.941111
#1	.0007267	-.007536	-.001848	.0003594	.0013909	-.030978	.3507127
#2	.0024647	-.008796	.000419	.0018617	.0008602	-.017312	.3644713
#3	.0018709	-.012691	.001963	.0001135	.0009490	-.022516	.3593358

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000410	.0001216	154.0455	.0028522	.0021629	-.001020	.1836635
Stddev	.000092	.0000362	3.3087	.0000710	.0000707	.000273	.0041830
%RSD	22.38840	29.73685	2.147852	2.487682	3.267353	26.78833	2.277543
#1	-.000324	.0001387	150.4673	.0027869	.0022444	-.000724	.1820562
#2	-.000506	.0001461	156.9942	.0029277	.0021185	-.001262	.1884118
#3	-.000399	.0000801	154.6749	.0028420	.0021258	-.001075	.1805226

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.607960	13.88760	.0052283	-.000326	350.6931	.0022147	.1400550
Stddev	.080251	.36397	.0001339	.000211	2.8559	.0004716	.0008161
%RSD	2.224275	2.620808	2.561425	64.59026	.8143546	21.29153	.5827043
#1	3.520979	13.50087	.0050943	-.000112	347.3969	.0023075	.1397653
#2	3.679126	14.22345	.0053621	-.000333	352.2547	.0017037	.1409764
#3	3.623775	13.93849	.0052286	-.000534	352.4276	.0026330	.1394232

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.938592	.0947394	.0012566	-.005443	-.002537	.4550807	.0194902
Stddev	.050606	.0016680	.0000963	.000513	.000384	.0024678	.0012491
%RSD	.8521594	1.760656	7.665491	9.426692	15.13142	.5422851	6.408979
#1	5.883046	.0931696	.0012486	-.006025	-.002980	.4539584	.0180482
#2	5.950648	.0964908	.0011645	-.005053	-.002309	.4579102	.0201840
#3	5.982082	.0945579	.0013566	-.005253	-.002321	.4533735	.0202384

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03DUP Acquired: 11/19/2024 20:56:44 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.822035	-.026995	.2826195
Stddev	.001506	.000990	.0047314
%RSD	.0826569	3.668221	1.674112
#1	1.820304	-.025918	.2774881
#2	1.822757	-.027201	.2868093
#3	1.823043	-.027866	.2835610

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3090.791	58730.97	12655.59	2461.991	4347.656
Stddev	6.477	91.75	232.26	14.233	5.448
%RSD	.2095669	.1562175	1.835241	.5781292	.1253003
#1	3087.330	58831.26	12889.80	2477.104	4346.876
#2	3086.779	58710.37	12425.33	2460.028	4342.641
#3	3098.264	58651.27	12651.64	2448.841	4353.452

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03LX5 Acquired: 11/19/2024 21:01:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029540	-.001804	.0007324	-.001461	-.000114	-.010635	.0806796
Stddev	.0015539	.001536	.0006616	.000704	.000377	.003563	.0009505
%RSD	52.60415	85.13673	90.33443	48.19870	330.4022	33.50178	1.178095
#1	.0019725	-.001792	.0002706	-.002094	-.000547	-.013320	.0796930
#2	.0021439	-.000274	.0014904	-.001586	.000145	-.006593	.0807565
#3	.0047456	-.003346	.0004363	-.000702	.000060	-.011991	.0815893

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000028	.0000126	31.02195	.0004696	.0004560	-.000517	.0323652
Stddev	.000032	.0000277	.19157	.0003582	.0001570	.000182	.0025024
%RSD	114.1944	219.4646	.6175178	76.29372	34.43537	35.27525	7.731771
#1	-.000002	-.000004	30.80344	.0006684	.0004960	-.000668	.0345402
#2	-.000019	-.000003	31.10144	.0006842	.0002829	-.000570	.0296302
#3	-.000064	.000045	31.16098	.0000560	.0005892	-.000314	.0329252

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7424072	2.817112	.0011342	-.000158	64.16585	.0011475	.0263306
Stddev	.0036400	.021788	.0003607	.000151	.19096	.0002749	.0001454
%RSD	.4902941	.7734121	31.80486	95.44094	.2976014	23.95664	.5523029
#1	.7388748	2.807014	.0008374	-.000219	64.04387	.0014597	.0262175
#2	.7422010	2.842116	.0015357	-.000270	64.06775	.0010413	.0262798
#3	.7461460	2.802205	.0010294	.000014	64.38592	.0009416	.0264947

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9571440	.0229899	.0003872	-.005159	-.000495	.0888316	-.002751
Stddev	.0168287	.0008912	.0000572	.000569	.000137	.0024081	.002285
%RSD	1.758219	3.876510	14.78221	11.02819	27.66098	2.710888	83.05551
#1	.9384234	.0240190	.0003596	-.005511	-.000343	.0890673	-.001100
#2	.9710165	.0224818	.0004530	-.005463	-.000609	.0863143	-.001795
#3	.9619922	.0224689	.0003491	-.004502	-.000532	.0911132	-.005358

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03LX5 Acquired: 11/19/2024 21:01:10 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3519912	-.005991	.0551895
Stddev	.0012524	.000453	.0002643
%RSD	.3558029	7.561235	.4789608
#1	.3515481	-.006043	.0549178
#2	.3534049	-.005514	.0554458
#3	.3510206	-.006416	.0552048

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3409.422	65978.55	13002.82	2770.860	4920.602
Stddev	3.409	79.79	29.35	12.499	1.484
%RSD	.0999992	.1209290	.2257203	.4510807	.0301681
#1	3413.282	65952.00	13028.70	2778.981	4919.061
#2	3408.163	66068.23	12970.93	2777.132	4920.723
#3	3406.821	65915.43	13008.82	2756.467	4922.022

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03MS Acquired: 11/19/2024 21:05:31 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8021053	1.864433	1.025281	1.917132	.7394567	1.962808	.5564039
Stddev	.0026939	.022068	.005331	.005976	.0012709	.004394	.0004456
%RSD	.3358539	1.183604	.5199485	.3117359	.1718668	.2238431	.0800827
#1	.8036169	1.882797	1.027175	1.923341	.7408252	1.958266	.5560054
#2	.7989951	1.870549	1.029407	1.911420	.7383136	1.967037	.5568850
#3	.8037039	1.839953	1.019262	1.916635	.7392312	1.963121	.5563213

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2473345	.2246185	160.7930	.4681131	.2136345	.2660771	3.297779
Stddev	.0016275	.0008346	1.0374	.0007297	.0007192	.0007271	.018689
%RSD	.6580172	.3715714	.6451628	.1558783	.3366747	.2732467	.5667228
#1	.2454896	.2249525	159.7133	.4680109	.2138204	.2666561	3.287250
#2	.2485669	.2252344	160.8837	.4674399	.2142426	.2663140	3.286729
#3	.2479469	.2236686	161.7821	.4688885	.2128406	.2652611	3.319357

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.981147	16.49502	.5360497	.0723989	355.0766	.3250109	.3542234
Stddev	.018772	.12820	.0014358	.0030514	.7028	.0010193	.0020288
%RSD	.4715293	.7771909	.2678515	4.214715	.1979234	.3136071	.5727339
#1	3.964454	16.37792	.5359658	.0691970	355.2781	.3240490	.3531721
#2	3.977518	16.47513	.5375257	.0752735	354.2951	.3249046	.3529360
#3	4.001469	16.63199	.5346577	.0727261	355.6567	.3260791	.3565620

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.28652	.4076535	.4007416	.7667763	.1985960	1.251437	6.689788
Stddev	.09734	.0032866	.0000710	.0037880	.0003624	.008276	.037203
%RSD	.6367471	.8062172	.0177049	.4940163	.1824973	.6613019	.5561161
#1	15.39770	.4040724	.4008224	.7697591	.1990008	1.260304	6.693998
#2	15.21667	.4105318	.4006896	.7680554	.1983015	1.243917	6.724707
#3	15.24518	.4083563	.4007127	.7625143	.1984858	1.250091	6.650659

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03MS Acquired: 11/19/2024 21:05:31 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.830430	.1499146	.4943623
Stddev	.007946	.0005456	.0018202
%RSD	.4340892	.3639142	.3681822
#1	1.836787	.1505180	.4922623
#2	1.832980	.1494560	.4954860
#3	1.821522	.1497699	.4953387

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2978.398	57636.62	11949.07	2395.348	4189.604
Stddev	9.788	300.90	27.95	15.822	6.092
%RSD	.3286340	.5220726	.2339276	.6605333	.1454063
#1	2980.251	57330.83	11973.07	2378.955	4190.743
#2	2987.126	57932.39	11955.77	2410.530	4195.047
#3	2967.815	57646.65	11918.38	2396.560	4183.023

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03 Acquired: 11/19/2024 21:09:43 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001505	-.010393	-.000111	.0019372	.0014484	-.029679	.3690118
Stddev	.0016739	.000988	.000714	.0004332	.0007944	.008906	.0052027
%RSD	1112.359	9.502436	644.5511	22.36155	54.84343	30.00701	1.409901
#1	.0004406	-.009670	-.000654	.0024367	.0009630	-.039275	.3631131
#2	-.001649	-.011518	-.000377	.0016635	.0010171	-.028085	.3709756
#3	.001660	-.009992	.000698	.0017115	.0023651	-.021678	.3729469

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000432	.0000336	156.8273	.0032121	.0018228	-.000805	.1916244
Stddev	.000008	.0000230	2.7210	.0002652	.0001038	.000163	.0026349
%RSD	1.800501	68.57583	1.734999	8.256068	5.691498	20.20055	1.375042
#1	-.000440	.0000316	153.7420	.0030482	.0018769	-.000741	.1940346
#2	-.000433	.0000576	157.8559	.0035180	.0017032	-.000990	.1920272
#3	-.000424	.0000116	158.8841	.0030699	.0018883	-.000684	.1888112

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.671236	14.02565	.0049452	-.000549	368.5473	.0018402	.1456317
Stddev	.056470	.24764	.0002687	.000146	3.6383	.0006038	.0005344
%RSD	1.538166	1.765621	5.432827	26.54296	.9872021	32.81466	.3669539
#1	3.607145	13.75602	.0052552	-.000563	364.3469	.0025216	.1458452
#2	3.692886	14.07801	.0048003	-.000397	370.5797	.0016275	.1460263
#3	3.713677	14.24293	.0047800	-.000687	370.7154	.0013715	.1450235

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.223502	.0951723	.0016569	-.005246	-.002787	.4850728	.0243471
Stddev	.037237	.0013347	.0002790	.000382	.000379	.0009477	.0025688
%RSD	.5983237	1.402435	16.84141	7.274785	13.59783	.1953723	10.55079
#1	6.196694	.0936750	.0015374	-.004822	-.002371	.4847467	.0253844
#2	6.266019	.0956046	.0019758	-.005354	-.003113	.4861405	.0214219
#3	6.207793	.0962373	.0014575	-.005562	-.002876	.4843312	.0262351

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03 Acquired: 11/19/2024 21:09:43 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.817900	-.027320	.2925583
Stddev	.034388	.000446	.0046441
%RSD	1.891611	1.632218	1.587403
#1	1.851665	-.026844	.2873803
#2	1.819112	-.027389	.2939394
#3	1.782922	-.027727	.2963551

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3081.189	56598.98	12426.39	2375.507	4340.857
Stddev	76.917	324.81	156.96	23.547	98.291
%RSD	2.496345	.5738830	1.263143	.9912317	2.264317
#1	2992.816	56599.42	12607.63	2364.666	4228.194
#2	3117.697	56273.95	12336.25	2359.334	4385.295
#3	3133.054	56923.57	12335.28	2402.522	4409.081

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03MSD Acquired: 11/19/2024 21:14:09 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7696750	1.791435	.9803548	1.841265	.6983695	1.865976	.5123172
Stddev	.0027845	.029845	.0016667	.005966	.0011965	.017097	.0029665
%RSD	.3617787	1.665980	.1700074	.3239951	.1713254	.9162483	.5790362
#1	.7720176	1.770731	.9812205	1.836215	.6971677	1.850718	.5110019
#2	.7665964	1.777929	.9814104	1.839734	.6983803	1.884454	.5157139
#3	.7704110	1.825645	.9784334	1.847847	.6995605	1.862756	.5102357

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2372433	.2155204	152.4453	.4545905	.2040029	.2518833	3.107574
Stddev	.0007023	.0003638	.3359	.0021324	.0000931	.0000668	.007145
%RSD	.2960287	.1687817	.2203321	.4690835	.0456312	.0265187	.2299064
#1	.2364366	.2156795	152.0579	.4540905	.2040907	.2518085	3.103368
#2	.2375757	.2157775	152.6552	.4527526	.2039053	.2519042	3.103531
#3	.2377178	.2151042	152.6228	.4569285	.2040125	.2519371	3.115823

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.717363	15.99332	.5114073	.0685520	336.1135	.3064296	.3364169
Stddev	.012546	.02926	.0007476	.0028711	.6733	.0015139	.0013063
%RSD	.3374982	.1829417	.1461898	4.188156	.2003193	.4940326	.3883083
#1	3.704902	15.98204	.5120674	.0710634	335.3546	.3062177	.3362061
#2	3.729992	15.97137	.5115591	.0691706	336.3469	.3080383	.3352288
#3	3.717194	16.02653	.5105954	.0654221	336.6391	.3050329	.3378159

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.29720	.3880551	.3801543	.7341998	.1853682	1.196061	6.326543
Stddev	.04655	.0021796	.0006640	.0038505	.0008703	.012406	.030382
%RSD	.3256043	.5616767	.1746750	.5244465	.4695089	1.037228	.4802368
#1	14.30147	.3855770	.3798708	.7338902	.1848015	1.203198	6.310048
#2	14.34147	.3896747	.3796791	.7381957	.1863702	1.181736	6.307976
#3	14.24866	.3889138	.3809130	.7305134	.1849327	1.203250	6.361605

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03MSD Acquired: 11/19/2024 21:14:09 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.738593	.1389269	.4723656
Stddev	.003864	.0017979	.0019490
%RSD	.2222324	1.294121	.4125987
#1	1.741627	.1388571	.4710283
#2	1.734243	.1407586	.4746018
#3	1.739908	.1371649	.4714667

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3186.474	60584.86	12653.61	2589.897	4464.052
Stddev	1.735	135.16	25.87	4.496	6.110
%RSD	.0544389	.2230851	.2044594	.1735821	.1368686
#1	3186.658	60495.96	12677.09	2584.719	4457.885
#2	3188.110	60740.40	12625.87	2592.807	4464.170
#3	3184.655	60518.23	12657.87	2592.164	4470.103

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03A Acquired: 11/19/2024 21:18:18 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8030685	1.850023	1.025112	1.934684	.7329783	1.938684	.5379520
Stddev	.0021635	.016389	.002264	.005406	.0036003	.012381	.0028266
%RSD	.2694004	.8858793	.2208356	.2794413	.4911893	.6386356	.5254282
#1	.8052231	1.836932	1.027721	1.939536	.7362800	1.929929	.5366373
#2	.8030861	1.844733	1.023945	1.935660	.7335153	1.952849	.5411965
#3	.8008963	1.868403	1.023669	1.928856	.7291397	1.933272	.5360223

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2444760	.2248509	158.9069	.4694689	.2135222	.2641188	3.235090
Stddev	.0016142	.0001950	.7400	.0018128	.0002206	.0012414	.003869
%RSD	.6602611	.0867254	.4656516	.3861417	.1033094	.4700292	.1195954
#1	.2432411	.2250481	158.2052	.4701082	.2132700	.2652285	3.234635
#2	.2463025	.2248463	159.6799	.4674231	.2136793	.2643498	3.231469
#3	.2438843	.2246582	158.8356	.4708755	.2136174	.2627781	3.239167

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.886353	16.64765	.5351557	.0728002	348.7097	.3202035	.3524187
Stddev	.018405	.15163	.0006133	.0008489	2.1831	.0029697	.0053104
%RSD	.4735924	.9108001	.1145954	1.166069	.6260409	.9274407	1.506846
#1	3.875332	16.47483	.5348430	.0718271	346.6266	.3211987	.3502799
#2	3.907600	16.75836	.5358623	.0733889	348.5219	.3225477	.3485112
#3	3.876125	16.70976	.5347619	.0731846	350.9806	.3168640	.3584650

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.85436	.4037575	.3962144	.7654950	.1932199	1.237696	6.593057
Stddev	.04208	.0041972	.0013961	.0012398	.0008218	.012058	.006197
%RSD	.2833132	1.039548	.3523592	.1619576	.4253342	.9742225	.0939959
#1	14.86848	.3990151	.3967450	.7640738	.1922740	1.234470	6.588486
#2	14.80703	.4052629	.3972674	.7660571	.1936262	1.227580	6.590574
#3	14.88757	.4069945	.3946308	.7663542	.1937594	1.251039	6.600111

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4718-03A Acquired: 11/19/2024 21:18:18 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.817646	.1457165	.4927337
Stddev	.000305	.0010421	.0012136
%RSD	.0168017	.7151430	.2463065
#1	1.817419	.1450306	.4919413
#2	1.817993	.1469156	.4941309
#3	1.817525	.1452031	.4921289

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3038.900	58971.73	12218.78	2482.300	4261.126
Stddev	14.471	174.20	71.25	3.797	15.242
%RSD	.4761861	.2953996	.5831581	.1529818	.3577063
#1	3026.516	58954.10	12263.40	2480.816	4245.720
#2	3035.377	59154.08	12136.61	2486.616	4261.460
#3	3054.807	58807.01	12256.34	2479.469	4276.199

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4341-01DLX10 Acquired: 11/19/2024 21:22:25 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007172	.0387046	.0031145	.1867710	.0119542	.0514256
Stddev	.001432	.0024419	.0005105	.0017356	.0013873	.0044367
%RSD	19.96157	6.309169	16.38976	.9292656	11.60537	8.627488
#1	-.007775	.0358849	.0037009	.1849592	.0111539	.0488263
#2	-.008203	.0401186	.0028733	.1869351	.0135561	.0565485
#3	-.005537	.0401103	.0027694	.1884187	.0111525	.0489020

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138969	.0007452	-.001510	1.094199	.0069189	.0015770
Stddev	.0005213	.0000128	.000054	.005121	.0000773	.0000512
%RSD	3.751052	1.714210	3.578406	.4680162	1.117425	3.249800
#1	.0144630	.0007430	-.001564	1.098191	.0069451	.0015594
#2	.0137911	.0007590	-.001456	1.088425	.0069797	.0015369
#3	.0134367	.0007337	-.001508	1.095980	.0068319	.0016347

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189741	32.76970	.2046404	.0996507	.0048181	.0011400
Stddev	.0001729	.10804	.0012892	.0052493	.0001524	.0000199
%RSD	.9112910	.3297016	.6300046	5.267750	3.163598	1.745891
#1	.0191135	32.74751	.2061289	.0940273	.0049401	.0011227
#2	.0190282	32.67447	.2039158	.1044216	.0048670	.0011618
#3	.0187806	32.88711	.2038764	.1005031	.0046473	.0011355

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.835887	.0035493	.5981968	510.2137	-.010854	.0099609
Stddev	.059542	.0005506	.0020175	1.9393	.001032	.0001272
%RSD	.6738632	15.51380	.3372664	.3801003	9.510507	1.277369
#1	8.767531	.0034408	.5999595	510.4595	-.012044	.0099896
#2	8.863677	.0030611	.5959963	508.1632	-.010316	.0098217
#3	8.876453	.0041462	.5986346	512.0184	-.010202	.0100713

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: P4341-01DLX10 Acquired: 11/19/2024 21:22:25 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1041402	.0008078	.2556702	F 149.7650	2.592881	.0011941
Stddev	.0026522	.0003178	.0094545	1.2282	.017369	.0003166
%RSD	2.546754	39.33485	3.697926	.8201121	.6698766	26.51600
#1	.1051641	.0009199	.2449066	150.5830	2.592723	.0013484
#2	.1011287	.0004492	.2626321	150.3593	2.610328	.0014041
#3	.1061279	.0010543	.2594718	148.3526	2.575591	.0008299

Elem	Sr4077
Units	ppm
Avg	-.027933
Stddev	.000116
%RSD	.4137215
#1	-.027898
#2	-.027839
#3	-.028062

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2763.746	55483.74	12920.78	2274.088	4465.298
Stddev	28.491	64.24	89.13	13.291	22.233
%RSD	1.030873	.1157820	.6898569	.5844721	.4979008
#1	2772.512	55472.32	12818.27	2265.223	4467.609
#2	2786.823	55552.93	12980.00	2289.370	4486.285
#3	2731.902	55425.98	12964.08	2267.670	4442.000

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: LR1 Acquired: 11/19/2024 21:26:56 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0535214	.1239152	.0278444	-.212492	-.004396	2052.573	.0248639
Stddev	.0071532	.0093221	.0068530	.005820	.003460	7.563	.0002865
%RSD	13.36511	7.522951	24.61166	2.738773	78.70326	.3684640	1.152311
#1	.0581376	.1244013	.0223407	-.208062	-.001866	2050.436	.0249404
#2	.0452815	.1143595	.0256723	-.219083	-.008339	2060.974	.0245470
#3	.0571451	.1329846	.0355202	-.210332	-.002984	2046.308	.0251045

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138053	.0996150	1765.994	.0005759	.0403466	-.096913	981.7816
Stddev	.0002196	.0027108	2.218	.0006583	.0010011	.008279	11.8645
%RSD	1.590924	2.721287	.1256162	114.2984	2.481355	8.542511	1.208469
#1	.0135554	.0964948	1764.338	.0000340	.0399218	-.105160	994.2703
#2	.0138930	.1009584	1768.515	.0003853	.0396279	-.088603	970.6595
#3	.0139676	.1013917	1765.130	.0013085	.0414901	-.096975	980.4151

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.116535	1758.450	.0180031	-.038891	1983.709	.0855260	.1568364
Stddev	.001156	8.352	.0016857	.002402	4.750	.0010153	.0025512
%RSD	.9918912	.4749631	9.363605	6.177411	.2394316	1.187129	1.626639
#1	-.115834	1768.091	.0193343	-.036585	1985.541	.0843736	.1540118
#2	-.115903	1753.825	.0161076	-.041380	1978.316	.0862887	.1589730
#3	-.117869	1753.433	.0185675	-.038709	1987.269	.0859158	.1575244

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1338.548	.3162476	-.009244	.0180099	-.039027	.1337288	.0784403
Stddev	4.066	.0202544	.000668	.0005337	.000531	.0020981	.0050514
%RSD	.3037943	6.404606	7.225477	2.963334	1.359491	1.568905	6.439871
#1	1340.082	.3366356	-.009502	.0186261	-.038608	.1320804	.0754160
#2	1333.938	.2961295	-.008486	.0177076	-.038850	.1330153	.0842718
#3	1341.624	.3159778	-.009744	.0176960	-.039623	.1360905	.0756330

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: LR1 Acquired: 11/19/2024 21:26:56 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.195884	-.290756	-.969483
Stddev	.003970	.001109	.011904
%RSD	2.026928	.3812574	1.227875
#1	-.196152	-.291308	-.982053
#2	-.191787	-.291481	-.958381
#3	-.199714	-.289480	-.968016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2293.084	43703.38	10524.39	1759.564	2697.862
Stddev	9.617	123.50	45.22	9.581	12.289
%RSD	.4193715	.2825963	.4296817	.5444901	.4555266
#1	2300.763	43735.46	10576.00	1767.204	2706.910
#2	2296.191	43807.67	10505.50	1762.672	2702.806
#3	2282.298	43566.99	10491.68	1748.815	2683.871

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: LR2 Acquired: 11/19/2024 21:31:53 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0153459	-.019942	244.8799	.0072877	-.003546	.0867057	^F *****
Stddev	.0003550	.002371	.9475	.0010222	.001039	.0041872	-----
%RSD	2.313514	11.89053	.3869045	14.02634	29.29988	4.829244	-----
#1	.0155454	-.018307	243.8768	.0082970	-.004538	.0883146	^ -----
#2	.0155564	-.022661	245.0033	.0073130	-.003635	.0898498	^ -----
#3	.0149360	-.018858	245.7596	.0062531	-.002466	.0819526	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004140	-.006222	.3325262	.0141501	-.014491	252.0028	.0119864
Stddev	.000073	.000067	.0031814	.0001729	.000313	.4030	.0027282
%RSD	1.759825	1.073890	.9567302	1.221644	2.156965	.1599164	22.76119
#1	-.004161	-.006223	.3296677	.0141551	-.014584	252.0157	.0138659
#2	-.004200	-.006154	.3319573	.0139748	-.014746	251.5935	.0088571
#3	-.004059	-.006288	.3359537	.0143205	-.014142	252.3992	.0132360

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.16946	.0491802	47.87004	.0010885	.4074216	-.017624	37.28535
Stddev	.13006	.0119425	.27452	.0000387	.0149428	.001102	.91995
%RSD	.2944519	24.28322	.5734691	3.551868	3.667649	6.254643	2.467330
#1	44.27011	.0564928	47.77076	.0011043	.3975179	-.016375	37.72084
#2	44.02261	.0556491	47.65898	.0010445	.4246097	-.018039	37.90669
#3	44.21565	.0353988	48.18039	.0011168	.4001373	-.018460	36.22851

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2262796	-.000352	-.007386	-.001407	-.037645	-.000507	3.433326
Stddev	.0098598	.000683	.000744	.000869	.000206	.004155	.021237
%RSD	4.357343	193.8343	10.06630	61.74221	.5480265	819.8843	.6185613
#1	.2287422	.000303	-.007649	-.002278	-.037848	.004118	3.431712
#2	.2154219	-.001059	-.006547	-.001402	-.037650	-.001712	3.412942
#3	.2346746	-.000301	-.007963	-.000541	-.037436	-.003927	3.455324

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: LR2 Acquired: 11/19/2024 21:31:53 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.009734	-.001574	.0020710
Stddev	.005086	.000534	.0000160
%RSD	52.24606	33.90522	.7735087
#1	-.015363	-.000970	.0020798
#2	-.008370	-.001981	.0020525
#3	-.005470	-.001771	.0020807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3082.150	68141.60	13437.61	2742.062	5138.102
Stddev	13.311	580.37	45.61	35.606	29.684
%RSD	.4318716	.8517076	.3394518	1.298527	.5777263
#1	3089.735	68258.40	13394.33	2756.503	5160.408
#2	3089.934	67511.71	13433.25	2701.503	5149.487
#3	3066.780	68654.68	13485.24	2768.179	5104.411

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: CCV02 Acquired: 11/19/2024 21:36:23 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.714020	4.917306	5.292310	4.569382	5.316707	9.405003
Stddev	.005917	.095716	.010612	.013267	.003561	.000875
%RSD	.1255124	1.946510	.2005098	.2903414	.0669687	.0092993
#1	4.718629	5.027819	5.280077	4.584691	5.319172	9.406013
#2	4.707348	4.863368	5.297821	4.562207	5.312625	9.404503
#3	4.716081	4.860732	5.299032	4.561247	5.318323	9.404493

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.17217	.2399407	2.735314	26.48487	1.087535	2.568045
Stddev	.09368	.0009697	.004104	.13904	.000063	.004997
%RSD	.9209833	.4041249	.1500403	.5249846	.0058275	.1945928
#1	10.15551	.2389621	2.730796	26.33124	1.087469	2.562466
#2	10.27307	.2409012	2.736336	26.60207	1.087595	2.569558
#3	10.08793	.2399589	2.738811	26.52129	1.087543	2.572111

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.130616	4.684015	2.435173	24.07940	2.599843	1.229650
Stddev	.001983	.009124	.004176	.21276	.004520	.000809
%RSD	.1753496	.1947956	.1714832	.8835665	.1738560	.0657929
#1	1.128522	4.673937	2.430587	23.83383	2.594792	1.228718
#2	1.130861	4.686393	2.438756	24.19615	2.601229	1.230170
#3	1.132465	4.691715	2.436176	24.20822	2.603507	1.230061

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.58275	2.486992	2.327320	24.15965	5.498796	4.548198
Stddev	.11284	.006166	.015665	.09925	.019309	.003671
%RSD	.4410953	.2479368	.6731003	.4108284	.3511467	.0807071
#1	25.71034	2.480144	2.337396	24.24379	5.478034	4.551756
#2	25.49605	2.488730	2.309272	24.05018	5.516214	4.544424
#3	25.54187	2.492103	2.335291	24.18497	5.502141	4.548412

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: CCV02 Acquired: 11/19/2024 21:36:23 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.372640	4.574049	4.624935	5.015165	4.938613	F 3.906338
Stddev	.002688	.002230	.024180	.011535	.021217	.019646
%RSD	.0500375	.0487575	.5228212	.2300095	.4296065	.5029189
#1	5.375165	4.576184	4.606351	5.018010	4.956097	3.928564
#2	5.372941	4.571735	4.616180	5.002473	4.915009	3.891292
#3	5.369814	4.574229	4.652273	5.025011	4.944733	3.899159

Elem	Sr4077
Units	ppm
Avg	4.780322
Stddev	.020261
%RSD	.4238475
#1	4.757325
#2	4.788099
#3	4.795543

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3408.155	65952.68	13236.95	2796.220	4853.831
Stddev	6.120	27.88	27.22	11.222	9.270
%RSD	.1795817	.0422707	.2056323	.4013133	.1909849
#1	3409.067	65923.55	13260.58	2784.914	4856.591
#2	3413.768	65979.11	13207.18	2807.356	4861.407
#3	3401.629	65955.37	13243.08	2796.389	4843.494

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: CCB02 Acquired: 11/19/2024 21:42:06 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022873	.0002762	.0006291	-.000628	.0007844	-.000825	.0097620
Stddev	.0012381	.0001985	.0005242	.000492	.0004044	.005183	.0003278
%RSD	54.12695	71.86412	83.31317	78.34672	51.55813	628.0191	3.357804
#1	.0023404	.0003942	.0001171	-.001129	.0004622	-.004442	.0100784
#2	.0010235	.0003874	.0011646	-.000146	.0006529	.005112	.0097838
#3	.0034979	.0000470	.0006057	-.000609	.0012383	-.003146	.0094239

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001043	-.000099	.0068716	.0001133	.0000524	-.000025	-.004924
Stddev	.0000414	.000039	.0082895	.0002489	.0000112	.000209	.001060
%RSD	39.66680	39.31633	120.6335	219.5958	21.42932	825.7994	21.53517
#1	.0001066	-.000124	-.001882	.0003981	.0000575	.000106	-.003730
#2	.0001444	-.000054	.014601	.0000043	.0000602	-.000266	-.005287
#3	.0000618	-.000119	.007896	-.000062	.0000395	.000084	-.005756

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004430	-.001216	-.000222	-.000395	-.025604	.0015709	-.000365
Stddev	.0001451	.015269	.000119	.000316	.018480	.0005549	.000235
%RSD	32.75634	1256.085	53.44902	80.04475	72.17644	35.32209	64.48006
#1	.0003551	.009821	-.000131	-.000691	-.044083	.0013149	-.000634
#2	.0006105	.005174	-.000356	-.000433	-.025605	.0022075	-.000198
#3	.0003634	-.018641	-.000179	-.000062	-.007123	.0011902	-.000262

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072648	.0046761	-.000009	-.003521	.0005206	.0058975	-.009121
Stddev	.0258068	.0003259	.000156	.000469	.0002755	.0039955	.002240
%RSD	355.2331	6.970274	1730.205	13.30700	52.91757	67.74855	24.56326
#1	-.018284	.0044284	-.000186	-.003667	.0007984	.0021602	-.009851
#2	.006756	.0045545	.000110	-.002997	.0002476	.0054233	-.006607
#3	.033322	.0050453	.000049	-.003900	.0005156	.0101088	-.010906

Reviewed By:mohan
On:11/21/2024 1:10:00 AM
Inst Id :P4
LB :LB133525

Sample Name: CCB02 Acquired: 11/19/2024 21:42:06 Type: Unk
Method: NON EPA-6010-200.7(v2475) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007231	-.000339	-.000084
Stddev	.002968	.000400	.000009
%RSD	41.04477	118.1648	10.99054
#1	-.003890	-.000571	-.000080
#2	-.009563	.000123	-.000077
#3	-.008240	-.000568	-.000094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3549.073	67994.12	13085.08	2881.432	5446.926
Stddev	4.417	67.45	31.72	12.904	2.111
%RSD	.1244515	.0991961	.2424042	.4478175	.0387516
#1	3546.428	67916.56	13058.72	2869.396	5448.927
#2	3554.172	68026.84	13076.23	2879.845	5447.130
#3	3546.618	68038.98	13120.28	2895.056	5444.720

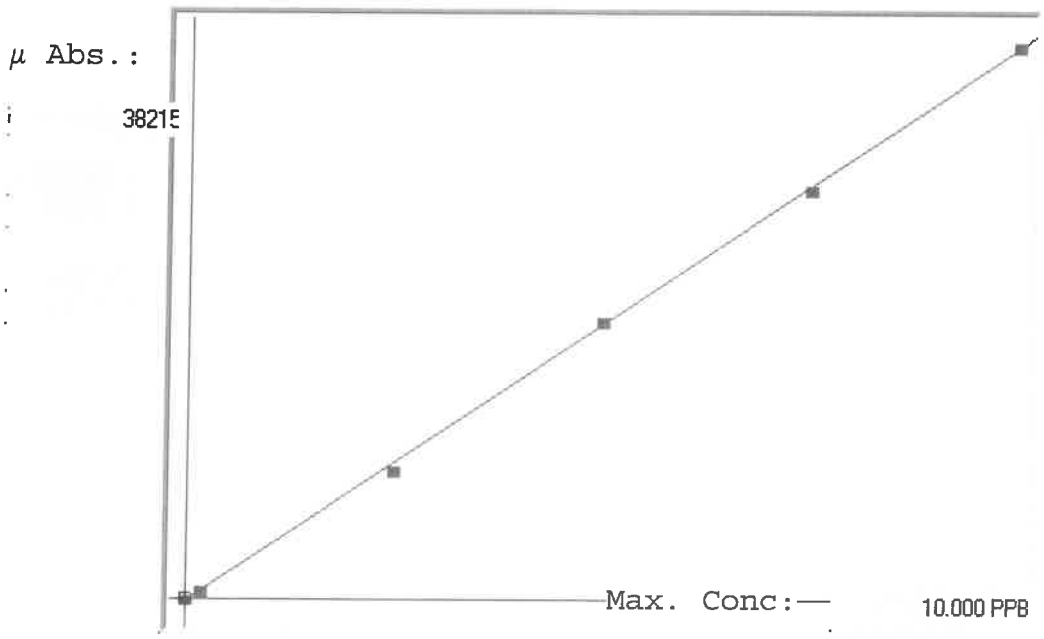
Reviewed By:mohan
On:11/8/2024 9:52:17 PM
Inst Id :CV1
LB :LB133352

LB133352

7470A

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.6139e-004

C= 4.2402e-002

Rho= 0.9998343

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	0.067	0.067	93	0.000	93	0				1
0.2	0.200	0.203	0.003	614	0.0 %	614					3
2.5	2.500	2.382	-0.118	8950	0.0 %	8950					-5
5.0	5.000	5.070	0.070	19234	0.0 %	19234					1
7.5	7.500	7.447	-0.053	28329	0.0 %	28329					-1
10.0	10.000	10.031	0.031	38215	0.0 %	38215					0

Reviewed By:mohan
On:11/8/2024 9:52:17 PM
Inst Id :CV1
LB :LB133352

LB133352 INSTRUMENT ID : CV1

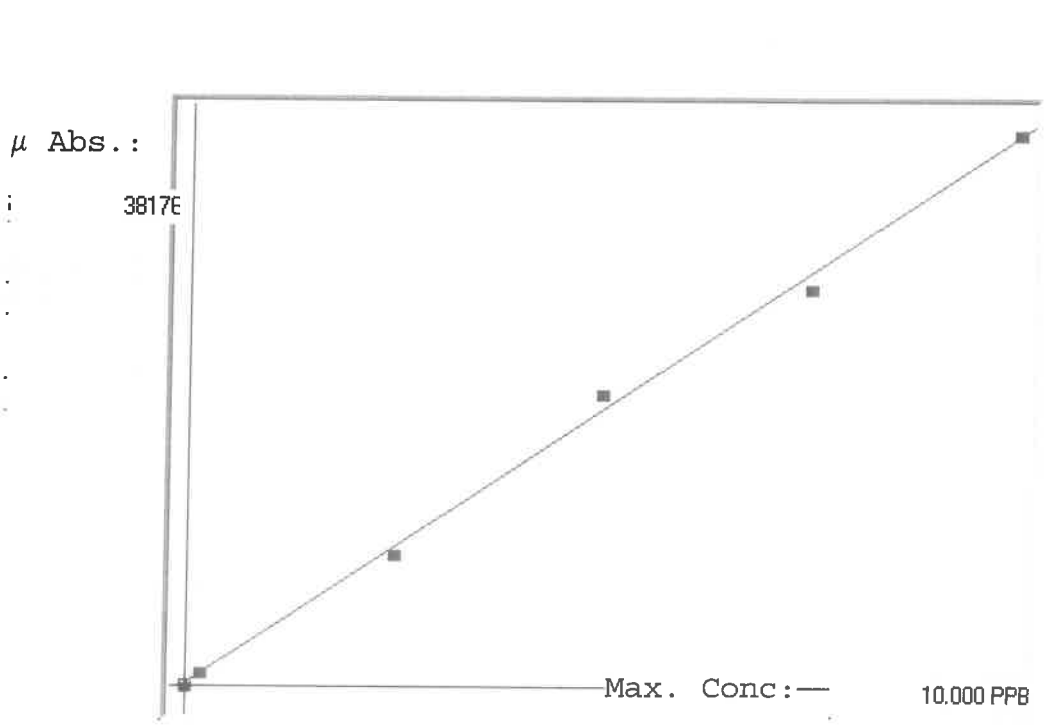
Method: 7470A Operator: Admin Date of Analysis: 08 Nov 2024 09:40:21

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	S0	93	-	0.00000	7470A	PPB	08 Nov 2024 10:04:53	S	Std
0.2 - 1	S0.2	614	-	0.20000	7470A	PPB	08 Nov 2024 10:07:10	S	Std
2.5 - 1	S2.5	8950	-	2.50000	7470A	PPB	08 Nov 2024 10:09:27	S	Std
5.0 - 1	S5	19234	-	5.00000	7470A	PPB	08 Nov 2024 10:11:43	S	Std
7.5 - 1	S7.5	28329	-	7.50000	7470A	PPB	08 Nov 2024 10:13:59	S	Std
10.0 - 1	S10	38215	-	10.00000	7470A	PPB	08 Nov 2024 10:16:17	S	Std
ICV75 - 1	ICV75	13850	3.6626	-	7470A	PPB	08 Nov 2024 10:19:04	U	SMPL
ICB75 - 1	ICB75	-223	-0.0159	-	7470A	PPB	08 Nov 2024 10:21:18	U	SMPL
CCV51 - 1	CCV51	19260	5.0767	-	7470A	PPB	08 Nov 2024 10:23:35	U	SMPL
CCB51 - 1	CCB51	-209	-0.0122	-	7470A	PPB	08 Nov 2024 10:25:49	U	SMPL
CRA - 1	CRA	564	0.1898	-	7470A	PPB	08 Nov 2024 10:28:06	U	SMPL
HighStd - 1	HighStd	36747	9.6476	-	7470A	PPB	08 Nov 2024 10:30:21	U	SMPL
ChkStd - 1	ChkStd	25382	6.6770	-	7470A	PPB	08 Nov 2024 10:35:46	U	SMPL
PB164791BL - 1	PBW	-362	-0.0522	-	7470A	PPB	08 Nov 2024 10:38:01	U	SMPL
PB164791BS - 1	LCSW	15875	4.1919	-	7470A	PPB	08 Nov 2024 10:40:19	U	SMPL
P4718-03 - 1	WB-307-SB02	-255	-0.0243	-	7470A	PPB	08 Nov 2024 10:42:34	U	SMPL
P4718-03DUP - 1	WB-307-SB02DUP	-92	0.0184	-	7470A	PPB	08 Nov 2024 10:44:52	U	SMPL
P4718-03MS - 1	WB-307-SB02MS	12687	3.3586	-	7470A	PPB	08 Nov 2024 10:47:09	U	SMPL
P4718-03MSD - 1	WB-307-SB02MSD	15411	4.0707	-	7470A	PPB	08 Nov 2024 10:49:26	U	SMPL
P4719-03 - 1	BAYAVE-STOCKPILE	-195	-0.0086	-	7470A	PPB	08 Nov 2024 10:51:42	U	SMPL
CCV52 - 1	CCV52	18837	4.9662	-	7470A	PPB	08 Nov 2024 10:53:59	U	SMPL
CCB52 - 1	CCB52	-279	-0.0305	-	7470A	PPB	08 Nov 2024 10:56:15	U	SMPL
P4720-05 - 1	JC-701-COMP-01	-108	0.0142	-	7470A	PPB	08 Nov 2024 10:58:31	U	SMPL
P4722-04 - 1	WC-1(0-6)	-61	0.0265	-	7470A	PPB	08 Nov 2024 11:00:46	U	SMPL
P4722-09 - 1	WC-2(0-6)	-98	0.0168	-	7470A	PPB	08 Nov 2024 11:03:02	U	SMPL
P4722-14 - 1	WC-3(0-6)	-42	0.0314	-	7470A	PPB	08 Nov 2024 11:05:18	U	SMPL
P4732-02 - 1	PPE-COMP	94	0.0670	-	7470A	PPB	08 Nov 2024 11:07:33	U	SMPL
P4738-02 - 1	72-12018	-10	0.0398	-	7470A	PPB	08 Nov 2024 11:09:50	U	SMPL
P4739-04 - 1	TP-14	65	0.0594	-	7470A	PPB	08 Nov 2024 11:12:06	U	SMPL
P4739-08 - 1	BP-G2	157	0.0834	-	7470A	PPB	08 Nov 2024 11:14:23	U	SMPL
P4739-12 - 1	BP-B2	-254	-0.0240	-	7470A	PPB	08 Nov 2024 11:16:40	U	SMPL
P4739-16 - 1	TP-11	9	0.0448	-	7470A	PPB	08 Nov 2024 11:18:57	U	SMPL
CCV53 - 1	CCV53	17701	4.6692	-	7470A	PPB	08 Nov 2024 11:21:12	U	SMPL
CCB53 - 1	CCB53	-253	-0.0237	-	7470A	PPB	08 Nov 2024 11:23:27	U	SMPL
PB164694TB - 1	PB164694TB	-114	0.0126	-	7470A	PPB	08 Nov 2024 11:25:44	U	SMPL
P4718-03LX5 - 1		-90	0.0189	-	7470A	PPB	08 Nov 2024 11:28:00	U	SMPL
P4718-03A - 1		14079	3.7225	-	7470A	PPB	08 Nov 2024 11:30:15	U	SMPL
CCV54 - 1	CCV54	17291	4.5621	-	7470A	PPB	08 Nov 2024 11:32:30	U	SMPL
CCB54 - 1	CCB54	-218	-0.0146	-	7470A	PPB	08 Nov 2024 11:34:48	U	SMPL

Reviewed By:jaswal
On:11/13/2024
10:29:45 AM
Inst Id :CV1
LB :LB133407

LB133407

7470A / INSTRUMENT IA: CV1



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	-0.016	-0.016	78	0.000	78	0				
0.2	0.200	0.215	0.015	954	0.0 %	954					7
2.5	2.500	2.399	-0.101	9227	0.0 %	9227					4
5.0	5.000	5.325	0.325	20310	0.0 %	20310					1
7.5	7.500	7.234	-0.266	27540	0.0 %	27540					4
10.0	10.000	10.043	0.043	38176	0.0 %	38176					0

Reviewed By:jaswal
On:11/13/2024
10:29:45 AM
Inst Id :CV1
LB :LB133407

LB133407 INSTRUMENT ID : CV1

Method: 7470A Operator: Admin Date of Analysis: 12 Nov 2024 14:00:55

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	78	-	0.00000	7470A	PPB	12 Nov 2024 14:03:41	S	Std
0.2 - 1	50.2	954	-	0.20000	7470A	PPB	12 Nov 2024 14:05:57	S	Std
2.5 - 1	52.5	9227	-	2.50000	7470A	PPB	12 Nov 2024 14:08:14	S	Std
5.0 - 1	55	20310	-	5.00000	7470A	PPB	12 Nov 2024 14:10:31	S	Std
7.5 - 1	57.5	27540	-	7.50000	7470A	PPB	12 Nov 2024 14:12:47	S	Std
10.0 - 1	510	38176	-	10.00000	7470A	PPB	12 Nov 2024 14:15:08	S	Std
ICV83 - 1	ICV83	14018	4.0035		-7470A	PPB	12 Nov 2024 14:17:48	U	SMPL
ICB83 - 1	ICB83	512	0.0310		-7470A	PPB	12 Nov 2024 14:22:35	U	SMPL
CCV75 - 1	CCV75	16948	4.8653		-7470A	PPB	12 Nov 2024 14:27:35	U	SMPL
CCB75 - 1	CCB75	184	-0.0655		-7470A	PPB	12 Nov 2024 14:29:49	U	SMPL
CRA - 1	CRA	1218	0.2386		-7470A	PPB	12 Nov 2024 14:39:58	U	SMPL
HighStd - 1	HighStd	35792	10.4080		-7470A	PPB	12 Nov 2024 14:42:13	U	SMPL
ChkStd - 1	ChkStd	23864	6.8996		-7470A	PPB	12 Nov 2024 14:44:28	U	SMPL
PB164892BL - 1	PBW	276	-0.0385		-7470A	PPB	12 Nov 2024 14:49:28	U	SMPL
PB164892BS - 1	LCSW	14715	4.2085		-7470A	PPB	12 Nov 2024 14:51:43	U	SMPL
P4722-05 - 1	WC-1(0-6)	-159	-0.1664		-7470A	PPB	12 Nov 2024 14:53:59	U	SMPL
P4722-10 - 1	WC-2(0-6)	-33	-0.1293		-7470A	PPB	12 Nov 2024 14:56:17	U	SMPL
P4722-15 - 1	WC-3(0-6)	35	-0.1093		-7470A	PPB	12 Nov 2024 14:58:34	U	SMPL
P4722-15DUP - 1	WC-3(0-6)DUP	124	-0.0832		-7470A	PPB	12 Nov 2024 15:00:50	U	SMPL
P4722-15MS - 1	WC-3(0-6)MS	14091	4.0250		-7470A	PPB	12 Nov 2024 15:03:05	U	SMPL
CCV76 - 1	CCV76	17759	5.1039		-7470A	PPB	12 Nov 2024 15:05:21	U	SMPL
CCB76 - 1	CCB76	329	-0.0229		-7470A	PPB	12 Nov 2024 15:07:38	U	SMPL
P4722-15MSD - 1	WC-3(0-6)MSD	15390	4.4071		-7470A	PPB	12 Nov 2024 15:09:56	U	SMPL
PB164893BS - 1	LCSW	15025	4.2997		-7470A	PPB	12 Nov 2024 15:14:28	U	SMPL
P4756-04 - 1	BP-B4	-270	-0.1991		-7470A	PPB	12 Nov 2024 15:16:43	U	SMPL
P4771-06 - 1	P-1	-21	-0.1258		-7470A	PPB	12 Nov 2024 15:19:01	U	SMPL
P4771-08 - 1	P-2	11	-0.1164		-7470A	PPB	12 Nov 2024 15:21:17	U	SMPL
P4788-04 - 1	BP-G3	54	-0.1038		-7470A	PPB	12 Nov 2024 15:23:33	U	SMPL
P4789-04 - 1	BP-F21	53	-0.1041		-7470A	PPB	12 Nov 2024 15:25:50	U	SMPL
P4792-01 - 1	DIESLE-DRUM	840	0.1274		-7470A	PPB	12 Nov 2024 15:28:08	U	SMPL
P4792-06 - 1	OILY-STONE-DRUM	-50	-0.1343		-7470A	PPB	12 Nov 2024 15:30:23	U	SMPL
CCV77 - 1	CCV77	18451	5.3074		-7470A	PPB	12 Nov 2024 15:32:38	U	SMPL
CCB77 - 1	CCB77	454	0.0139		-7470A	PPB	12 Nov 2024 15:37:32	U	SMPL
P4793-02 - 1	M00-24-00345	40	-0.1079		-7470A	PPB	12 Nov 2024 15:39:48	U	SMPL
P4795-02 - 1	LAW-23-00189	157	-0.0735		-7470A	PPB	12 Nov 2024 15:42:03	U	SMPL
P4798-04 - 1	MH-6	622	0.0633		-7470A	PPB	12 Nov 2024 15:44:18	U	SMPL
P4798-04DUP - 1	MH-6DUP	-46	-0.1332		-7470A	PPB	12 Nov 2024 15:49:25	U	SMPL
P4798-04MS - 1	MH-6MS	12787	3.6414		-7470A	PPB	12 Nov 2024 15:51:40	U	SMPL
P4798-04MSD - 1	MH-6MSD	13736	3.9206		-7470A	PPB	12 Nov 2024 15:56:48	U	SMPL
CCV78 - 1	CCV78	15815	4.5321		-7470A	PPB	12 Nov 2024 15:59:04	U	SMPL
CCB78 - 1	CCB78	135	-0.0799		-7470A	PPB	12 Nov 2024 16:01:23	U	SMPL
PB164792TB - 1		544	0.0404		-7470A	PPB	12 Nov 2024 16:06:20	U	SMPL
PB164793TB - 1		369	-0.0111		-7470A	PPB	12 Nov 2024 16:08:35	U	SMPL
P4722-15LX5 - 1		56	-0.1032		-7470A	PPB	12 Nov 2024 16:10:50	U	SMPL
P4722-15A - 1		13146	3.7470		-7470A	PPB	12 Nov 2024 16:13:06	U	SMPL
P4798-04LX5 - 1		-128	-0.1573		-7470A	PPB	12 Nov 2024 16:15:21	U	SMPL
P4798-04A - 1		13086	3.7294		-7470A	PPB	12 Nov 2024 16:17:37	U	SMPL
PB164893BL - 1	PBW	289	-0.0346		-7470A	PPB	12 Nov 2024 16:19:52	U	SMPL
CCV79 - 1	CCV79	16429	4.7127		-7470A	PPB	12 Nov 2024 16:25:37	U	SMPL
CCB79 - 1	CCB79	139	-0.0788		-7470A	PPB	12 Nov 2024 16:27:53	U	SMPL

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164768

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 11/07/2024 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 11/07/2024 **Time :** 15:45 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JSP

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	M6009
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
CONC: HNO3	3.00	M6117
1:1 HCL	5.00	MP83105
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 CELL #50: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/7/24 16:00	JSP / Mutdig	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164768

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4718-03	WB-307-SB02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	30
P4718-03DUP	WB-307-SB02DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	31
P4718-03MS	WB-307-SB02MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	32
P4718-03MSD	WB-307-SB02MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	33
P4719-03	BAYAVE-STOCKPILE	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	34
P4720-05	JC-701-COMP-01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	35
P4722-04	WC-1(0-6)	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	36
P4722-09	WC-2(0-6)	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	37
P4722-14	WC-3(0-6)	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	38
P4732-02	PPE-COMP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	39
P4738-02	72-12018	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	40
P4739-04	TP-14	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	41
P4739-08	BP-G2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	42
P4739-12	BP-B2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	43
P4739-16	TP-11	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	44
PB164694TB	PB164694TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	45
PB164768BL	PBW768	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	46
PB164768BS	LCS768	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	47

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164694

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4718-03	WB-307-SB02	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
P4719-03	BAYAVE-STOCKPILE	02	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4720-05	JC-701-COMP-01	03	100.04	2000	N/A	N/A	N/A	3.5	1.0	T-1
P4722-04	WC-1(0-6)	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4722-09	WC-2(0-6)	05	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
P4722-14	WC-3(0-6)	06	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
P4732-02	PPE-COMP	07	100.00	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4738-02	72-12018	08	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4739-04	TP-14	09	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4739-08	BP-G2	10	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4739-12	BP-B2	11	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-2
P4739-16	TP-11	12	100.04	2000	N/A	N/A	N/A	8.2	1.5	T-2
PB164694TB	LEB694	13	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164869

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 11/11/2024 **Time :** 10:30 **Temp :** 96 °C

End Digest Date: 11/11/2024 **Time :** 13:40 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: jgp

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	M6009
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
Conc. HNO3	3.00	M6119
1:1 HCL	5.00	MP83105
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 CELL #50: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/11/24 14:00	jgp Met dig	Conductivity Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164869

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4722-05	WC-1(0-6)	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	31
P4722-10	WC-2(0-6)	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	32
P4722-15	WC-3(0-6)	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	33
P4722-15MS	WC-3(0-6)MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	35
P4722-15MSD	WC-3(0-6)MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	36
P4722-15DUP	WC-3(0-6)DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	34
PB164869BL	PBW869	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	37
PB164869BS	LCS869	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	38
PB164869TB	LEB869	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	39

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB164792

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4722-05	WC-1(0-6)	11	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-2
P4722-10	WC-2(0-6)	12	100.04	2000	N/A	N/A	N/A	7.0	1.0	T-2
P4722-15	WC-3(0-6)	13	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
PB164792TB	LEB792	14	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-2

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164791

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 11/07/2024 **Time :** 11:50 **Temp :** 95 °C

End Digest Date: 11/07/2024 **Time :** 13:50 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: [illegible]

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP83113
CCV	30mL	MP83115
CRA	30mL	MP83117
Blank Spike	0.48mL	MP83106
Matrix Spike	0.48mL	MP83106

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP82651
KMnO4 (5%)	4.5mL	MP82652
K2S2O8 (5%)	2.5mL	MP82653
Hydroxylamine HCL (12%)	2.0mL	MP82654
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

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP83107
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP83108
2.5 ppb	S2.5	30mL	MP83109
5.0 ppb	S5.0	30mL	MP83110
7.5 ppb	S7.5	30mL	MP83111
10.0 ppb	S10.0	30mL	MP83112
ICV	ICV	30mL	MP83113
ICB	ICB	30mL	MP83114
CCV	CCV	30mL	MP83115
CCB	CCB	30mL	MP83116
CRI	CRI	30mL	MP83117
CHK STD	CHK STD	30mL	MP83118

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 @14:26	MB - Dig. Lab	MB - Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164791

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4718-03	WB-307-SB02	3	30	<2	N/A	3-1
P4718-03DUP	WB-307-SB02DUP	3	30	<2	N/A	2
P4718-03MS	WB-307-SB02MS	3	30	<2	MP83106	3
P4718-03MSD	WB-307-SB02MSD	3	30	<2	MP83106	4
P4719-03	BAYAVE-STOCKPILE	3	30	<2	N/A	5
P4720-05	JC-701-COMP-01	3	30	<2	N/A	6
P4722-04	WC-1(0-6)	3	30	<2	N/A	7
P4722-09	WC-2(0-6)	3	30	<2	N/A	8
P4722-14	WC-3(0-6)	3	30	<2	N/A	9
P4732-02	PPE-COMP	3	30	<2	N/A	10
P4738-02	72-12018	3	30	<2	N/A	11
P4739-04	TP-14	3	30	<2	N/A	12
P4739-08	BP-G2	3	30	<2	N/A	13
P4739-12	BP-B2	3	30	<2	N/A	14
P4739-16	TP-11	3	30	<2	N/A	15
PB164694TB	PB164694TB	3	30	<2	N/A	16
PB164791BL	PBW791	30	30	<2	N/A	17
PB164791BS	LCS791	30	30	<2	MP83106	18

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164694

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 114771

Start Prep Date : 11/06/2024 **Time :** 16:45

End Prep Date : 11/07/2024 **Time :** 09:35

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 23 °C

TCLP Technician Signature :

Supervisor By : SJ

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 / T-2 checked,30 rpm. p4718-03 is used for MS-MSD. Particle size reduction is not required.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 11:00	JP / Cold Room	
	Preparation Group	Analysis Group

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133407

Review By	mohan	Review On	11/13/2024 10:28:24 AM
Supervise By	jaswal	Supervise On	11/13/2024 10:29:45 AM

STD. NAME	STD REF.#
ICAL Standard	MP83214,MP83215,MP83216,MP83217,MP83218,MP83219
ICV Standard	MP83220
CCV Standard	MP83222
ICSA Standard	
CRI Standard	MP83224
LCS Standard	
Chk Standard	MP83221,MP83223,MP83225,MP83211

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/12/24 14:03		Mohan	OK
2	S0.2	S0.2	CAL2	11/12/24 14:05		Mohan	OK
3	S2.5	S2.5	CAL3	11/12/24 14:08		Mohan	OK
4	S5	S5	CAL4	11/12/24 14:10		Mohan	OK
5	S7.5	S7.5	CAL5	11/12/24 14:12		Mohan	OK
6	S10	S10	CAL6	11/12/24 14:15		Mohan	OK
7	ICV83	ICV83	ICV	11/12/24 14:17		Mohan	OK
8	ICB83	ICB83	ICB	11/12/24 14:22		Mohan	OK
9	CCV75	CCV75	CCV	11/12/24 14:27		Mohan	OK
10	CCB75	CCB75	CCB	11/12/24 14:29		Mohan	OK
11	CRA	CRA	CRDL	11/12/24 14:39		Mohan	OK
12	HighStd	HighStd	HIGH STD	11/12/24 14:42		Mohan	OK
13	ChkStd	ChkStd	SAM	11/12/24 14:44		Mohan	OK
14	PB164892BL	PB164892BL	MB	11/12/24 14:49		Mohan	OK
15	PB164892BS	PB164892BS	LCS	11/12/24 14:51		Mohan	OK
16	P4722-05	WC-1(0-6)	SAM	11/12/24 14:53		Mohan	OK
17	P4722-10	WC-2(0-6)	SAM	11/12/24 14:56		Mohan	OK
18	P4722-15	WC-3(0-6)	SAM	11/12/24 14:58		Mohan	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133407

Review By	mohan	Review On	11/13/2024 10:28:24 AM
Supervise By	jaswal	Supervise On	11/13/2024 10:29:45 AM

STD. NAME	STD REF.#
ICAL Standard	MP83214,MP83215,MP83216,MP83217,MP83218,MP83219
ICV Standard	MP83220
CCV Standard	MP83222
ICSA Standard	
CRI Standard	MP83224
LCS Standard	
Chk Standard	MP83221,MP83223,MP83225,MP83211

19	P4722-15DUP	WC-3(0-6)DUP	DUP	11/12/24 15:00		Mohan	OK
20	P4722-15MS	WC-3(0-6)MS	MS	11/12/24 15:03		Mohan	OK
21	CCV76	CCV76	CCV	11/12/24 15:05		Mohan	OK
22	CCB76	CCB76	CCB	11/12/24 15:07		Mohan	OK
23	P4722-15MSD	WC-3(0-6)MSD	MSD	11/12/24 15:09		Mohan	OK
24	PB164893BS	PB164893BS	LCS	11/12/24 15:14		Mohan	OK
25	P4756-04	BP-B4	SAM	11/12/24 15:16		Mohan	OK
26	P4771-06	P-1	SAM	11/12/24 15:19		Mohan	OK
27	P4771-08	P-2	SAM	11/12/24 15:21		Mohan	OK
28	P4788-04	BP-G3	SAM	11/12/24 15:23		Mohan	OK
29	P4789-04	BP-F21	SAM	11/12/24 15:25		Mohan	OK
30	P4792-01	DIESLE-DRUM	SAM	11/12/24 15:28		Mohan	OK
31	P4792-06	OILY-STONE-DRUM	SAM	11/12/24 15:30		Mohan	OK
32	CCV77	CCV77	CCV	11/12/24 15:32		Mohan	OK
33	CCB77	CCB77	CCB	11/12/24 15:37		Mohan	OK
34	P4793-02	M00-24-00345	SAM	11/12/24 15:39		Mohan	OK
35	P4795-02	LAW-23-00189	SAM	11/12/24 15:42		Mohan	OK
36	P4798-04	MH-6	SAM	11/12/24 15:44		Mohan	OK
37	P4798-04DUP	MH-6DUP	DUP	11/12/24 15:49		Mohan	OK
38	P4798-04MS	MH-6MS	MS	11/12/24 15:51		Mohan	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133407

Review By	mohan	Review On	11/13/2024 10:28:24 AM
Supervise By	jaswal	Supervise On	11/13/2024 10:29:45 AM

STD. NAME	STD REF.#
ICAL Standard	MP83214,MP83215,MP83216,MP83217,MP83218,MP83219
ICV Standard	MP83220
CCV Standard	MP83222
ICSA Standard	
CRI Standard	MP83224
LCS Standard	
Chk Standard	MP83221,MP83223,MP83225,MP83211

39	P4798-04MSD	MH-6MSD	MSD	11/12/24 15:56		Mohan	OK
40	CCV78	CCV78	CCV	11/12/24 15:59		Mohan	OK
41	CCB78	CCB78	CCB	11/12/24 16:01		Mohan	OK
42	PB164892TB	PB164892TB	MB	11/12/24 16:06		Mohan	OK
43	PB164793TB	PB164793TB	MB	11/12/24 16:08		Mohan	OK
44	P4722-15L	WC-3(0-6)L	SD	11/12/24 16:10		Mohan	OK
45	P4722-15A	WC-3(0-6)A	PS	11/12/24 16:13		Mohan	OK
46	P4798-04L	MH-6L	SD	11/12/24 16:15		Mohan	OK
47	P4798-04A	MH-6A	PS	11/12/24 16:17		Mohan	OK
48	PB164893BL	PB164893BL	MB	11/12/24 16:19		Mohan	OK
49	CCV79	CCV79	CCV	11/12/24 16:25		Mohan	OK
50	CCB79	CCB79	CCB	11/12/24 16:27		Mohan	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133457

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/14/24 13:33		Kareem	OK
2	S1	S1	CAL2	11/14/24 13:37		Kareem	OK
3	S2	S2	CAL3	11/14/24 13:42		Kareem	OK
4	S3	S3	CAL4	11/14/24 13:46		Kareem	OK
5	S4	S4	CAL5	11/14/24 13:50		Kareem	OK
6	S5	S5	CAL6	11/14/24 13:54		Kareem	OK
7	ICV01	ICV01	ICV	11/14/24 13:58		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/14/24 14:10		Kareem	OK
9	ICB01	ICB01	ICB	11/14/24 14:36		Kareem	OK
10	CRI01	CRI01	CRDL	11/14/24 14:40		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/14/24 14:54		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/14/24 15:18		Kareem	OK
13	CCV01	CCV01	CCV	11/14/24 15:22		Kareem	OK
14	CCB01	CCB01	CCB	11/14/24 15:27		Kareem	OK
15	P4756-01	BP-B4	SAM	11/14/24 15:31		Kareem	OK
16	CCV02	CCV02	CCV	11/14/24 15:35		Kareem	OK
17	CCB02	CCB02	CCB	11/14/24 15:40		Kareem	OK
18	PB164797BL	PB164797BL	MB	11/14/24 15:44		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133457

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

19	PB164797BS	PB164797BS	LCS	11/14/24 15:48	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
20	PB164935BL	PB164935BL	MB	11/14/24 15:52		Kareem	OK
21	PB164935BS	PB164935BS	LCS	11/14/24 15:57	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
22	PB164869TB	PB164869TB	MB	11/14/24 16:01		Kareem	OK
23	PB164869BL	PB164869BL	MB	11/14/24 16:05		Kareem	OK
24	PB164869BS	PB164869BS	LCS	11/14/24 16:09	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
25	PB164880TB	PB164880TB	MB	11/14/24 16:13		Kareem	OK
26	PB164890TB	PB164890TB	MB	11/14/24 16:18		Kareem	OK
27	PB164926BL	PB164926BL	MB	11/14/24 16:22		Kareem	OK
28	CCV03	CCV03	CCV	11/14/24 16:27		Kareem	OK
29	CCB03	CCB03	CCB	11/14/24 16:31		Kareem	OK
30	PB164926BS	PB164926BS	LCS	11/14/24 16:41	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
31	P4768-01	B-3-1	SAM	11/14/24 16:45		Kareem	OK
32	P4768-02	B-3-2	SAM	11/14/24 16:50		Kareem	OK
33	P4768-02DUP	B-3-2DUP	DUP	11/14/24 16:54		Kareem	OK
34	P4768-02L	B-3-2L	SD	11/14/24 16:58		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133457

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

35	P4768-02MS	B-3-2MS	MS	11/14/24 17:02	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
36	P4768-02MSD	B-3-2MSD	MSD	11/14/24 17:06	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
37	P4768-02A	B-3-2A	PS	11/14/24 17:10	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
38	P4768-03	B-3-3	SAM	11/14/24 17:14		Kareem	OK
39	P4768-04	B-4	SAM	11/14/24 17:18		Kareem	OK
40	CCV04	CCV04	CCV	11/14/24 17:23		Kareem	OK
41	CCB04	CCB04	CCB	11/14/24 17:27		Kareem	OK
42	P4768-05	B-5	SAM	11/14/24 17:31		Kareem	OK
43	P4768-06	B-6-2	SAM	11/14/24 17:35		Kareem	OK
44	P4768-07	B-6-3	SAM	11/14/24 17:39		Kareem	OK
45	P4771-05	P-1	SAM	11/14/24 17:44		Kareem	OK
46	P4771-07	P-2	SAM	11/14/24 17:48		Kareem	OK
47	P4821-01	BP-F-24	SAM	11/14/24 17:52		Kareem	OK
48	P4821-05	BP-F-2	SAM	11/14/24 17:56		Kareem	OK
49	P4822-02	SOIL-1	SAM	11/14/24 18:00		Kareem	OK
50	P4822-02DUP	SOIL-1DUP	DUP	11/14/24 18:04		Kareem	OK
51	P4822-02L	SOIL-1L	SD	11/14/24 18:08		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133457

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

52	CCV05	CCV05	CCV	11/14/24 18:12		Kareem	OK
53	CCB05	CCB05	CCB	11/14/24 18:17		Kareem	OK
54	P4822-02MS	SOIL-1MS	MS	11/14/24 18:21	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
55	P4822-02MSD	SOIL-1MSD	MSD	11/14/24 18:25	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
56	P4822-02A	SOIL-1A	PS	11/14/24 18:29	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
57	P4822-04	SOIL-2	SAM	11/14/24 18:33		Kareem	OK
58	P4822-06	SOIL-3	SAM	11/14/24 18:37		Kareem	OK
59	P4822-08	SOIL-4	SAM	11/14/24 18:41		Kareem	OK
60	P4822-10	SOIL-5	SAM	11/14/24 18:45		Kareem	OK
61	P4822-12	SOIL-6	SAM	11/14/24 18:50		Kareem	OK
62	P4823-01	MH-4	SAM	11/14/24 18:54		Kareem	OK
63	P4722-05	WC-1(0-6)	SAM	11/14/24 18:58		Kareem	OK
64	CCV06	CCV06	CCV	11/14/24 19:03		Kareem	OK
65	CCB06	CCB06	CCB	11/14/24 19:07		Kareem	OK
66	P4722-10	WC-2(0-6)	SAM	11/14/24 19:11		Kareem	OK
67	P4722-15	WC-3(0-6)	SAM	11/14/24 19:16		Kareem	OK
68	P4722-15DUP	WC-3(0-6)DUP	DUP	11/14/24 19:20		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133457

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

69	P4722-15L	WC-3(0-6)L	SD	11/14/24 19:25		Kareem	OK
70	P4722-15MS	WC-3(0-6)MS	MS	11/14/24 19:29	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
71	P4722-15MSD	WC-3(0-6)MSD	MSD	11/14/24 19:33	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
72	P4722-15A	WC-3(0-6)A	PS	11/14/24 19:38	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
73	P4799-03	WC-TA2-02-C	SAM	11/14/24 19:42		Kareem	OK
74	P4799-03DUP	WC-TA2-02-CDUP	DUP	11/14/24 19:46		Kareem	OK
75	P4799-03L	WC-TA2-02-CL	SD	11/14/24 19:51		Kareem	OK
76	CCV07	CCV07	CCV	11/14/24 19:55		Kareem	OK
77	CCB07	CCB07	CCB	11/14/24 19:59		Kareem	OK
78	P4799-03MS	WC-TA2-02-CMS	MS	11/14/24 20:03	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
79	P4799-03MSD	WC-TA2-02-CMSD	MSD	11/14/24 20:08	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
80	P4799-03A	WC-TA2-02-CA	PS	11/14/24 20:12	0.1ml of m6010 and m6001 were added to 10ml of the sample	Kareem	OK
81	P4799-07	WC-TA2-03-C	SAM	11/14/24 20:16		Kareem	OK
82	P4799-11	WC-TA1-01-C	SAM	11/14/24 20:21		Kareem	OK
83	P4799-15	WC-TA1-02-C	SAM	11/14/24 20:25		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133457

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

84	P4799-19	WC-TA1-03-C	SAM	11/14/24 20:30		Kareem	OK
85	P4807-04	TP-7	SAM	11/14/24 20:34		Kareem	OK
86	P4807-08	BF-F14	SAM	11/14/24 20:39		Kareem	OK
87	P4807-12	BF-F13	SAM	11/14/24 20:43		Kareem	OK
88	CCV08	CCV08	CCV	11/14/24 20:47		Kareem	OK
89	CCB08	CCB08	CCB	11/14/24 21:42		Kareem	OK
90	P4807-16	TP-6	SAM	11/14/24 21:46		Kareem	OK
91	P4809-04	MH-5	SAM	11/14/24 21:51		Kareem	OK
92	P4813-02	417	SAM	11/14/24 21:55		Kareem	OK
93	P4813-03	418	SAM	11/14/24 22:00		Kareem	OK
94	CCV09	CCV09	CCV	11/14/24 22:04		Kareem	OK
95	CCB09	CCB09	CCB	11/14/24 22:08		Kareem	OK
96	P4813-05	420	SAM	11/14/24 22:13		Kareem	OK
97	P4812-03	270	SAM	11/14/24 22:17		Kareem	OK
98	P4813-01	416	SAM	11/14/24 22:22		Kareem	OK
99	P4813-04DL	419DL	SAM	11/14/24 22:26	Straight 5x for All elements	Kareem	OK
100	LR1	LR1	HIGH STD	11/14/24 22:36		Kareem	OK
101	LR2	LR2	HIGH STD	11/14/24 22:41		Kareem	OK
102	P4834-01	SLP-1-WATER	SAM	11/14/24 22:45		Kareem	OK
103	P4835-01	345-2-WATER	SAM	11/14/24 22:49	Confirm Wt	Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133457

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

104	P4836-01	T3-WATER	SAM	11/14/24 22:54	Confirm Wt	Kareem	OK
105	CCV10	CCV10	CCV	11/14/24 22:58		Kareem	OK
106	CCB10	CCB10	CCB	11/14/24 23:03		Kareem	OK

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164694

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 114771

Start Prep Date : 11/06/2024 **Time :** 16:45

End Prep Date : 11/07/2024 **Time :** 09:35

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 23 °C

TCLP Technician Signature :

Supervisor By : SJ

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 / T-2 checked,30 rpm. p4718-03 is used for MS-MSD. Particle size reduction is not required.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 11:00	SD / Cold Room	/ Metals
	Preparation Group	Analysis Group / GC

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164694

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4718-03	WB-307-SB02	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
P4719-03	BAYAVE-STOCKPILE	02	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4720-05	JC-701-COMP-01	03	100.04	2000	N/A	N/A	N/A	3.5	1.0	T-1
P4722-04	WC-1(0-6)	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4722-09	WC-2(0-6)	05	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
P4722-14	WC-3(0-6)	06	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
P4732-02	PPE-COMP	07	100.00	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4738-02	72-12018	08	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4739-04	TP-14	09	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4739-08	BP-G2	10	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4739-12	BP-B2	11	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-2
P4739-16	TP-11	12	100.04	2000	N/A	N/A	N/A	8.2	1.5	T-2
PB164694TB	LEB694	13	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB164694

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4718-03	WB-307-SB02	N/A	N/A	N/A	N/A	100	N/A
P4719-03	BAYAVE-STOCKPILE	N/A	N/A	N/A	N/A	100	N/A
P4720-05	JC-701-COMP-01	N/A	N/A	N/A	N/A	100	N/A
P4722-04	WC-1(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-09	WC-2(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-14	WC-3(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4732-02	PPE-COMP	N/A	N/A	N/A	N/A	100	N/A
P4738-02	72-12018	N/A	N/A	N/A	N/A	100	N/A
P4739-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
P4739-08	BP-G2	N/A	N/A	N/A	N/A	100	N/A
P4739-12	BP-B2	N/A	N/A	N/A	N/A	100	N/A
P4739-16	TP-11	N/A	N/A	N/A	N/A	100	N/A
PB164694TB	LEB694	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB164694

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4718-03	WB-307-SB02	5.02	96.5	8.4	3.0	#1	4.94
P4719-03	BAYAVE-STOCKPILE	5.01	96.5	8.4	3.0	#1	4.94
P4720-05	JC-701-COMP-01	5.02	96.5	6.0	2.0	#1	4.94
P4722-04	WC-1(0-6)	5.03	96.5	9.4	4.0	#1	4.94
P4722-09	WC-2(0-6)	5.02	96.5	9.0	3.5	#1	4.94
P4722-14	WC-3(0-6)	5.01	96.5	8.6	3.5	#1	4.94
P4732-02	PPE-COMP	5.00	96.5	8.4	3.0	#1	4.94
P4738-02	72-12018	5.02	96.5	7.0	2.5	#1	4.94
P4739-04	TP-14	5.03	96.5	7.2	2.5	#1	4.94
P4739-08	BP-G2	5.04	96.5	8.0	3.0	#1	4.94
P4739-12	BP-B2	5.02	96.5	7.6	2.5	#1	4.94
P4739-16	TP-11	5.01	96.5	10.0	4.0	#1	4.94
PB164694TB	LEB694	N/A	N/A	N/A	N/A	#1	4.94

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB164792

SOP ID : M1312-SPLP-10

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-2

TCLP Filter ID : 114771

Start Prep Date : 11/08/2024 **Time :** 14:00

End Prep Date : 11/09/2024 **Time :** 07:15

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
SPLP FLUID	N/A	WP110482
N/A	N/A	N/A
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

TUMBLER T-2 checked,30 rpm. Matrix spikes are added after foftration and before preservation. p4722-15 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/09/24 11:30	JP ICP room	JP / Metals
	Preparation Group	Analysis Group / ICP

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB164792

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4722-05	WC-1(0-6)	11	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-2
P4722-10	WC-2(0-6)	12	100.04	2000	N/A	N/A	N/A	7.0	1.0	T-2
P4722-15	WC-3(0-6)	13	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
PB164792TB	LEB792	14	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4722-05	WC-1(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-10	WC-2(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-15	WC-3(0-6)	N/A	N/A	N/A	N/A	100	N/A
PB164792TB	LEB792	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

SPLP Fluid Determination

PB164792

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4722-05	WC-1(0-6)	N/A	N/A	N/A	N/A	#1	4.24
P4722-10	WC-2(0-6)	N/A	N/A	N/A	N/A	#1	4.24
P4722-15	WC-3(0-6)	N/A	N/A	N/A	N/A	#1	4.24
PB164792TB	LEB792	N/A	N/A	N/A	N/A	#1	4.24

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : P4722

Test : SPLP ICP Metals,SPLP Mercury,TCLP ICP Metals,TCLP Mercury

Prepbatch ID : PB164768,PB164791,PB164869,PB164892,

Sequence ID/Qc Batch ID: LB133352,LB133365,LB133365,LB133365,LB133365,LB133407,LB133457,LB133525,

Standard ID :

MP73080,MP82651,MP82652,MP82653,MP82654,MP83078,MP83078 MP83079 MP73080 MP83081 MP83082 MP83084,MP83080,MP83083,MP83085,MP83086,MP83086 MP83087,MP83088,MP83091,MP83091 MP83092,MP83105,MP83106,MP83107,MP83108,MP83109,MP83110,MP83111,MP83112,MP83113,MP83114,MP831 15,MP83116,MP83117,MP83118,MP83159,MP83211,MP83213,MP83214,MP83215,MP83216,MP83217,MP83218,MP8 3219,MP83220,MP83221,MP83222,MP83223,MP83224,MP83225,

Chemical ID :

M4371,M4465,M4916,M5062,M5130,M5192,M5218,M5223,M5288,M5295,M5296,M5390,M5394,M5404,M5429,M5467 ,M5498,M5501,M5515,M5658,M5673,M5697,M5698,M5747,M5748,M5769,M5798,M5799,M5800,M5801,M5802,M580 6,M5814,M5815,M5816,M5817,M5818,M5819,M5820,M5875,M5882,M5953,M5962,M5970,M5978,M5982,M5984,M59 85,M6000,M6009,M6021,M6023,M6028,M6030,M6033,M6080,M6111,M6115,M6116,M6117,M6118,M6119,mp83084,m p83085,W2606,W3112,

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP73080	12/27/2022	01/08/2023	Bin He	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 12/28/2022

FROM 200.00000ml of M5404 + 9800.00000ml of W2606 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3965	2:1 H2SO4 : HNO3	MP82651	09/30/2024	03/25/2025	Mohan Bera	None	None	Sarabjit Jaswal 10/04/2024

FROM 1600.00000ml of M5673 + 800.00000ml of M6080 = Final Quantity: 3200.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP82652	09/30/2024	04/03/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/04/2024

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP82653	09/30/2024	04/03/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/04/2024

FROM 100.00000ml of M4465 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP82654	09/30/2024	04/03/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/04/2024

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5501 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83078	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 125.00000ml of M6111 + 2350.00000ml of W3112 + 25.00000ml of M6117 = Final Quantity: 2500.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP83080	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 50.00000ml of MP83078 + 50.00000ml of MP83079 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP83083	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 0.03000ml of M5798 + 0.03000ml of M6028 + 0.05000ml of M5515 + 0.05000ml of M5658 + 0.05000ml of M6030 + 0.05000ml of M6033 + 0.06000ml of M5747 + 0.10000ml of M5697 + 0.10000ml of M5698 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M5982 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M5819 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.25000ml of M5467 + 0.25000ml of M5802 + 0.50000ml of M5390 + 0.50000ml of M5814 + 1.00000ml of M5192 + 1.00000ml of M5288 + 1.00000ml of M5498 + 1.00000ml of M5769 + 1.00000ml of M5806 + 1.00000ml of M5978 + 2.00000ml of M5816 + 2.00000ml of M5818 + 77.68000ml of MP83078 = Final Quantity: 100.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP83085	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.25000ml of M5218 + 0.25000ml of M5982 + 10.00000ml of M5295 + 89.77500ml of MP83078 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP83086	11/06/2024	11/19/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 25.00000ml of M5130 + 225.00000ml of MP83078 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP83088	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 50.00000ml of MP83078 + 50.00000ml of MP83079 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP83091	11/06/2024	12/06/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 11/07/2024

FROM 1.00000ml of M5984 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6117 = Final Quantity: 2000.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP83105	11/07/2024	12/06/2024	Janvi Patel	None	None	Sarabjit Jaswal 11/07/2024

FROM 1000.00000ml of M6111 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP83106	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 1.00000ml of M6116 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP83107	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 2.50000ml of M6116 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP83108	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 2.50000ml of M6116 + 247.30000ml of W3112 + 0.20000ml of MP83106 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP83109	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 2.50000ml of M6116 + 245.00000ml of W3112 + 2.50000ml of MP83106 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP83110	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 2.50000ml of M6116 + 242.50000ml of W3112 + 5.00000ml of MP83106 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP83111	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 2.50000ml of M6116 + 240.00000ml of W3112 + 7.50000ml of MP83106 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP83112	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 2.50000ml of M6116 + 237.50000ml of W3112 + 10.00000ml of MP83106 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP83113	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 2.50000ml of M5953 + 2.50000ml of M6116 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP83114	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 2.50000ml of M6116 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP83115	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 485.00000ml of W3112 + 5.00000ml of M6116 + 10.00000ml of MP83106 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP83116	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 495.00000ml of W3112 + 5.00000ml of M6115 = Final Quantity: 500.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP83117	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 2.50000ml of M6116 + 247.30000ml of W3112 + 0.20000ml of MP83106 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP83118	11/07/2024	11/08/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/07/2024

FROM 2.50000ml of M6116 + 240.50000ml of W3112 + 7.00000ml of MP83106 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP83159	11/08/2024	11/09/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 11/08/2024

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6111 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP83211	11/12/2024	11/13/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 11/12/2024

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6118 = Final Quantity: 500.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP83213	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 1.00000ml of M6119 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP83214	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 2.50000ml of M6119 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP83215	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 2.50000ml of M6119 + 247.30000ml of W3112 + 0.20000ml of MP83213 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP83216	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 2.50000ml of M6119 + 245.00000ml of W3112 + 2.50000ml of MP83213 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP83217	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 2.50000ml of M6119 + 242.50000ml of W3112 + 5.00000ml of MP83213 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP83218	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 2.50000ml of M6119 + 240.00000ml of W3112 + 7.50000ml of MP83213 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP83219	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 2.50000ml of M6119 + 237.50000ml of W3112 + 10.00000ml of MP83213 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP83220	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 2.50000ml of M5953 + 2.50000ml of M6119 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP83221	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 2.50000ml of M6119 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP83222	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 485.00000ml of W3112 + 5.00000ml of M6119 + 10.00000ml of MP83213 = Final Quantity: 500.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP83223	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 495.00000ml of W3112 + 5.00000ml of M6119 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP83224	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 2.50000ml of M6119 + 247.30000ml of W3112 + 0.20000ml of MP83213 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP83225	11/12/2024	11/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/12/2024

FROM 2.50000ml of M6119 + 240.50000ml of W3112 + 7.00000ml of MP83213 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000234156	08/06/2025	07/23/2019 /	07/25/2019 / manojkumar	M4465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	11/19/2024	05/20/2024 /	04/20/2021 / bin	M5130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	S2-MEB711674	11/02/2026	07/01/2022 / bin	09/10/2021 / bin	M5218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	11/19/2024	05/20/2024 /	04/20/2021 / bin	M5223

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	02/20/2020 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	11/28/2022 / bin	09/19/2022 / bin	M5394

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	22C0462001	06/12/2023	12/20/2022 / Al-Terek	02/11/2022 / Al-Terek	M5404

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.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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 #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	07/24/2023 / mohan	04/14/2023 / mohan	M5501

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

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.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

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.	57005 / B, 1000 PPM, 125 ml	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	01/01/2025	07/01/2024 / mohan	03/30/2023 / mohan	M5953

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

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	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	031524	03/15/2027	07/01/2024 / Jaswal	06/11/2024 / Jaswal	M5982

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	08/05/2024 / kareem	06/14/2024 / Jaswal	M5984

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	T2-MEB723367	08/30/2026	08/13/2024 / Jaswal	05/14/2024 / Jaswal	M6000

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml	U2-MEB731108	03/17/2028	08/13/2024 / Jaswal	05/14/2024 / Jaswal	M6009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	01/25/2019 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	03/25/2025	10/02/2024 / Janvi	09/02/2024 / Janvi	M6080

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	05/04/2025	11/02/2024 / Janvi	09/29/2024 / Eman	M6115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/03/2025	11/04/2024 / Janvi	09/29/2024 / Eman	M6116

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	05/09/2025	11/09/2024 / Janvi	10/09/2024 / Janvi	M6118

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	05/09/2025	11/09/2024 / Janvi	10/09/2024 / Janvi	M6119

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6028

R 8/5/24

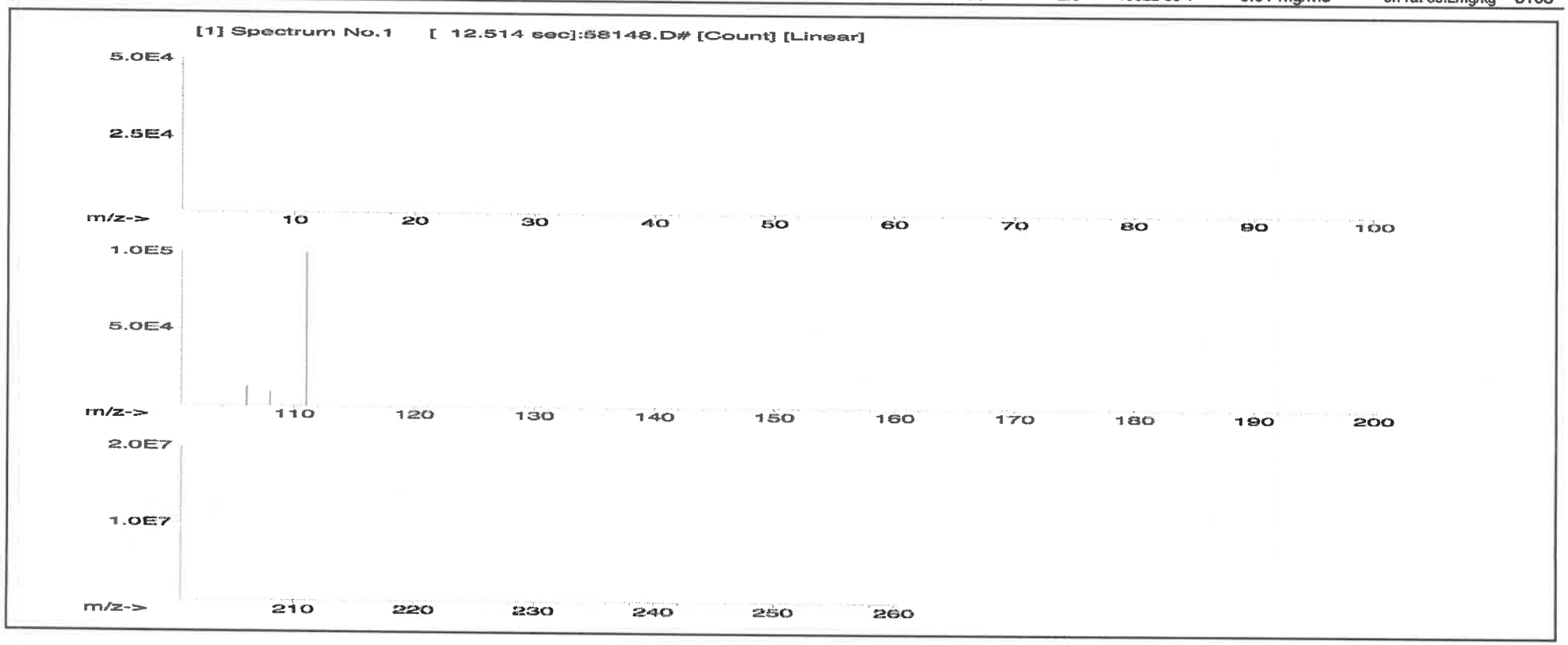
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	S2-MEB711673
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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:	CLPP-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.00 ± 0.26 µg/mL**	**Calcium, Ca**	**5 000 ± 22 µg/mL**
Chromium, Cr	**200.0 ± 1.0 µg/mL**	**Cobalt, Co**	**500.0 ± 2.4 µg/mL**
Copper, Cu	**250.0 ± 1.0 µg/mL**	**Iron, Fe**	**1 000 ± 4 µg/mL**
Magnesium, Mg	**5 000 ± 20 µg/mL**	**Manganese, Mn**	**500.0 ± 2.0 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 19 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**499.7 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.2 µg/mL**

Density: 1.118 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- 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 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

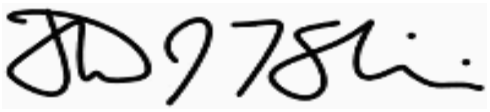
- Sealed TCT Bag Open Date: _____

- 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

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:	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

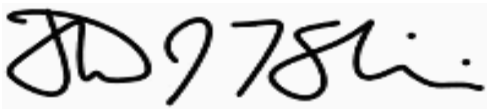
- Sealed TCT Bag Open Date: _____

- 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

INORGANIC VENTURES™

Refine your results. Redefine your industry.

Certificate of Analysis

RD:05/14/2024

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:	WW-LFS-1
Lot Number:	T2-MEB723367
Matrix:	5% (v/v) HNO3

Value / Analyte(s):	1 000 µg/mL ea: Potassium,	
	600 µg/mL ea: Phosphorus,	
	300 µg/mL ea: Sodium,	Iron,
	200 µg/mL ea: Magnesium, Cerium, Thallium,	Aluminum, Selenium,
	100 µg/mL ea: Lead,	Calcium,
	80 µg/mL ea: Arsenic,	
	70 µg/mL ea: Mercury,	
	50 µg/mL ea: Nickel,	
	40 µg/mL ea: Chromium,	
	30 µg/mL ea: Copper, Vanadium,	Boron,
	20 µg/mL ea: Zinc, Barium, Cadmium, Manganese,	Strontium, Beryllium, Cobalt, Lithium,
	7.5 µg/mL ea: Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.0 ± 0.7 µg/mL	Arsenic, As	80.0 ± 0.7 µg/mL
Barium, Ba	20.00 ± 0.09 µg/mL	Beryllium, Be	20.00 ± 0.13 µg/mL
Boron, B	30.00 ± 0.18 µg/mL	Cadmium, Cd	20.00 ± 0.09 µg/mL
Calcium, Ca	100.0 ± 0.4 µg/mL	Cerium, Ce	200.0 ± 0.8 µg/mL
Chromium, Cr	40.00 ± 0.30 µg/mL	Cobalt, Co	20.00 ± 0.10 µg/mL
Copper, Cu	30.00 ± 0.13 µg/mL	Iron, Fe	300.0 ± 1.3 µg/mL
Lead, Pb	100.0 ± 0.4 µg/mL	Lithium, Li	20.00 ± 0.08 µg/mL
Magnesium, Mg	200.0 ± 0.8 µg/mL	Manganese, Mn	20.00 ± 0.08 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.00 ± 0.22 µg/mL
Phosphorus, P	600.0 ± 2.7 µg/mL	Potassium, K	1 000 ± 4 µg/mL
Selenium, Se	200.0 ± 1.3 µg/mL	Silver, Ag	7.50 ± 0.03 µg/mL
Sodium, Na	300.0 ± 1.4 µg/mL	Strontium, Sr	20.01 ± 0.08 µg/mL
Thallium, Tl	200.0 ± 1.4 µg/mL	Vanadium, V	30.00 ± 0.13 µg/mL
Zinc, Zn	20.00 ± 0.09 µg/mL		

Density: 1.034 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
As	ICP Assay	3103a	100818
B	ICP Assay	3107	190605
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	Traceable to 3152A	S2-NA700842
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Tl	ICP Assay	3158	151215
V	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**

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 30, 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

- **August 30, 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:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES

Refine your results. Redefine your industry.

Certificate of Analysis

RD:05/14/2024

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 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-2
Lot Number:	U2-MEB731108
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	200 µg/mL ea: Silica, 80 µg/mL ea: Antimony, 70 µg/mL ea: Tin, 40 µg/mL ea: Molybdenum, 20 µg/mL ea: Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.6 µg/mL	Molybdenum, Mo	40.03 ± 0.18 µg/mL
Silica, SiO2	200.2 ± 1.3 µg/mL	Tin, Sn	70.0 ± 0.4 µg/mL
Titanium, Ti	20.01 ± 0.13 µg/mL		

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
SiO2	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925
Ti	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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

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**

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

March 17, 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

- March 17, 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

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
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

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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

M5062
M5063
M3

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 Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	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)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO_3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 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 Prepared By:

Uyen Truong
Supervisor, Product Documentation

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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5192 R: 06/17/22

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

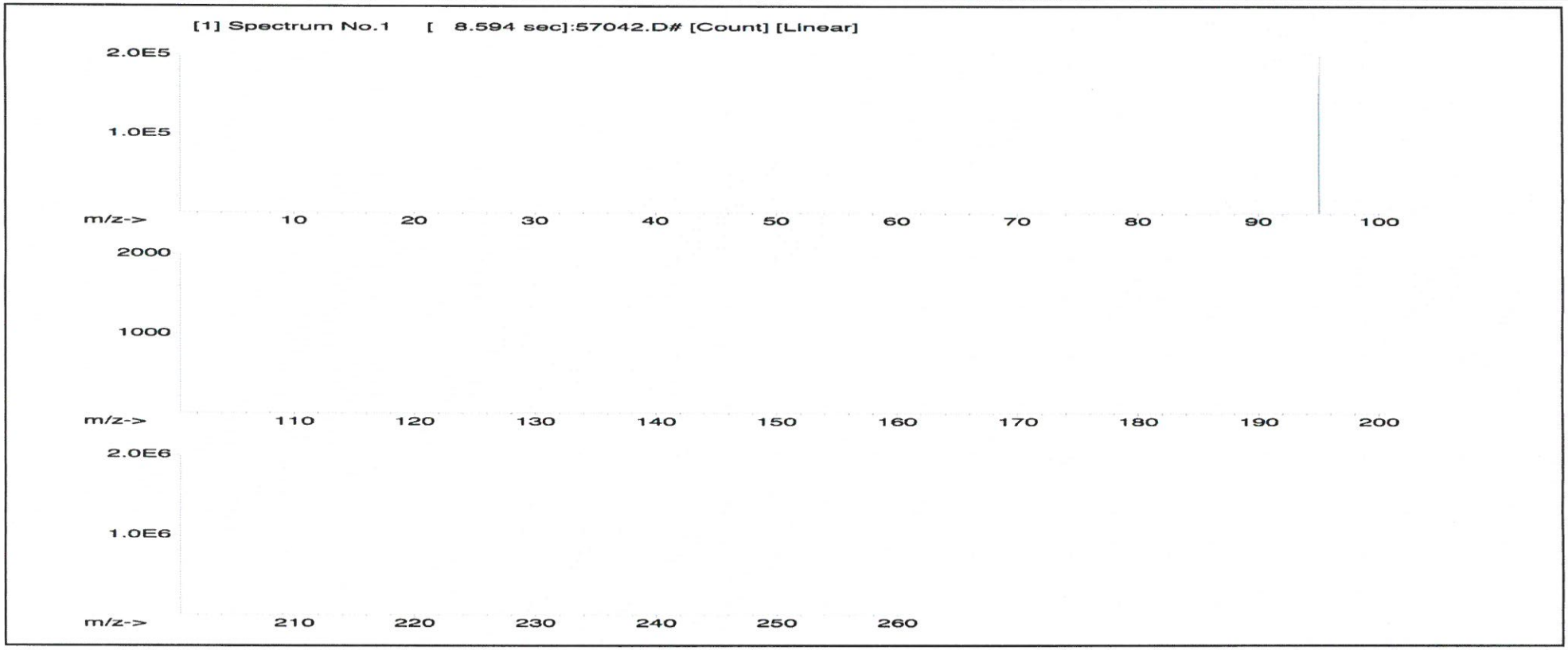
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 3000.41

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By: Lawrence Barry 051722

Reviewed By: Pedro L. Rentas 051722

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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).

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.

V15200 R: 04/24/22 (BP)

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

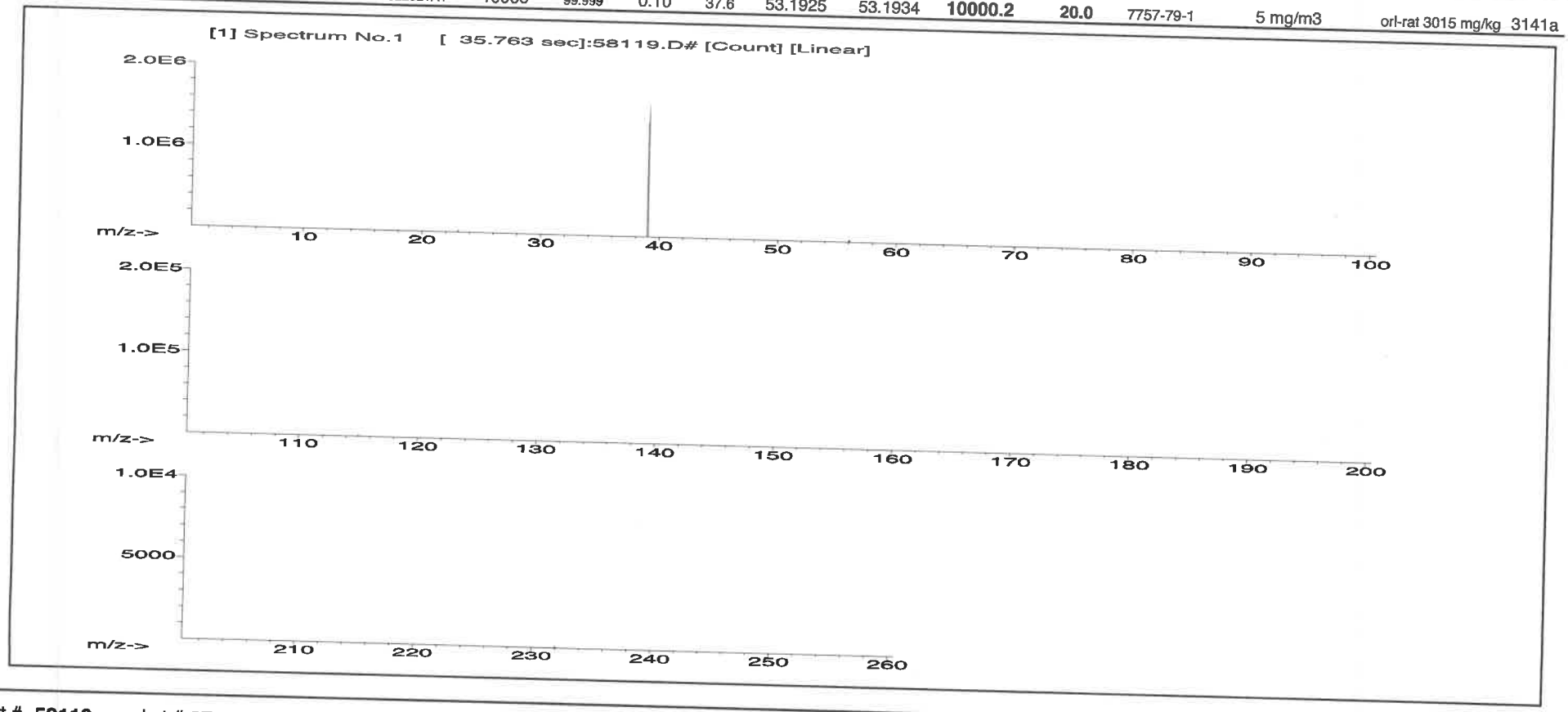
Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071122
Reviewed By:	Pedro L. Rentas	071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

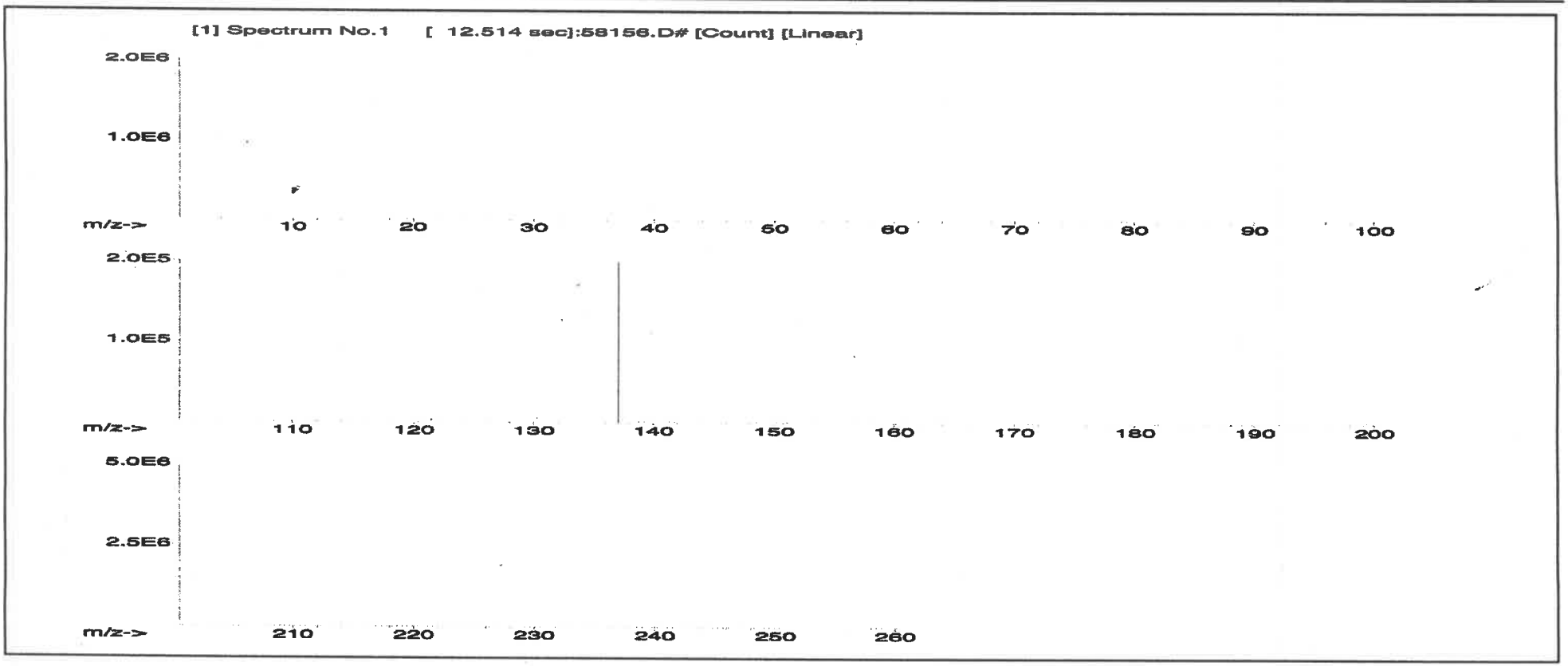
CERTIFIED WEIGHT REPORT:

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.
* 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).

Nitric Acid
CMOS

M5402 M5403 M5404
M5405 M5406 M5407

Material No.: 9606-03
Batch No.: 22C0462001
Manufactured Date: 2022-02-11
Retest Date: 2027-02-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.4 %
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	1.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	1.7 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 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 22C0462001

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	7 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	2 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 22C0462001

Test	Specification	Result

For Microelectronic Use
Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5429 R1 01/26/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

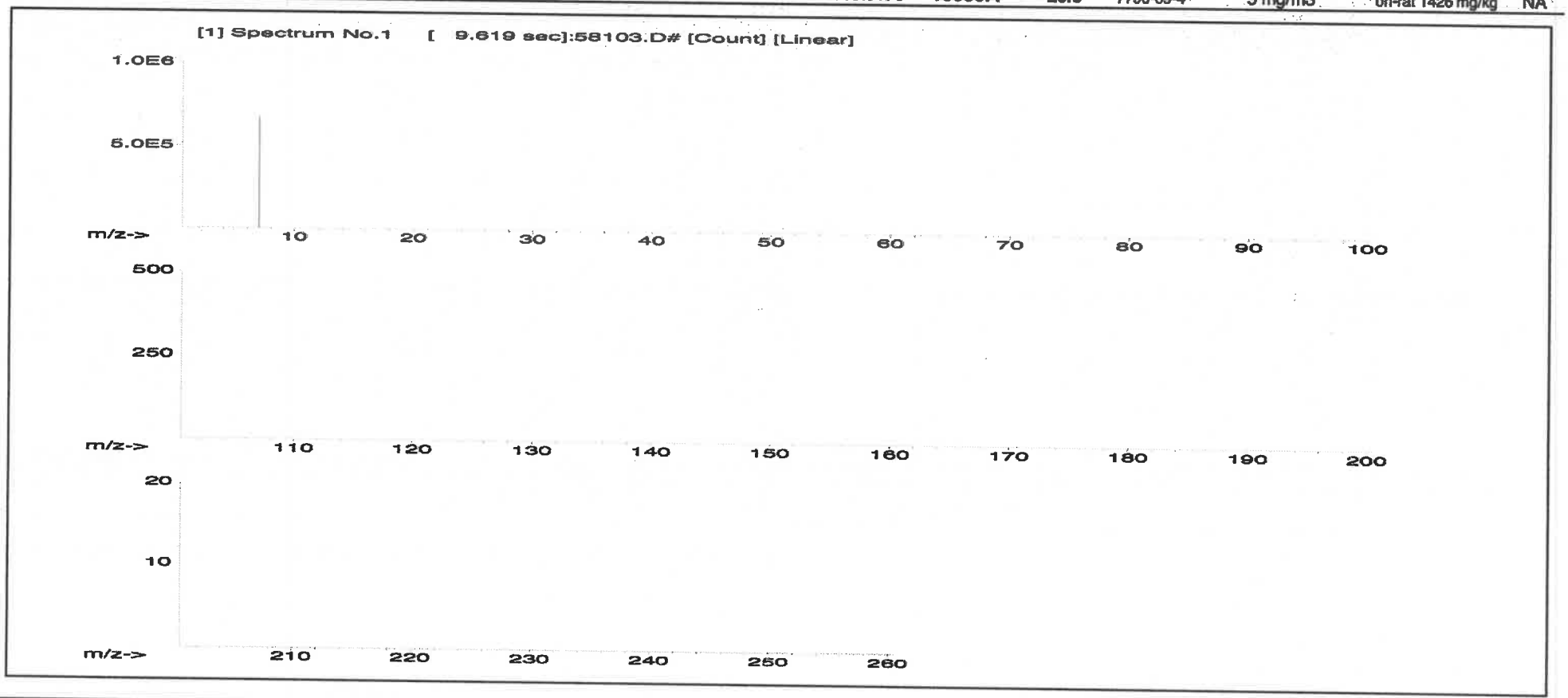
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

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.
* 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

M5467 R: 03/01/23 (LA)

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

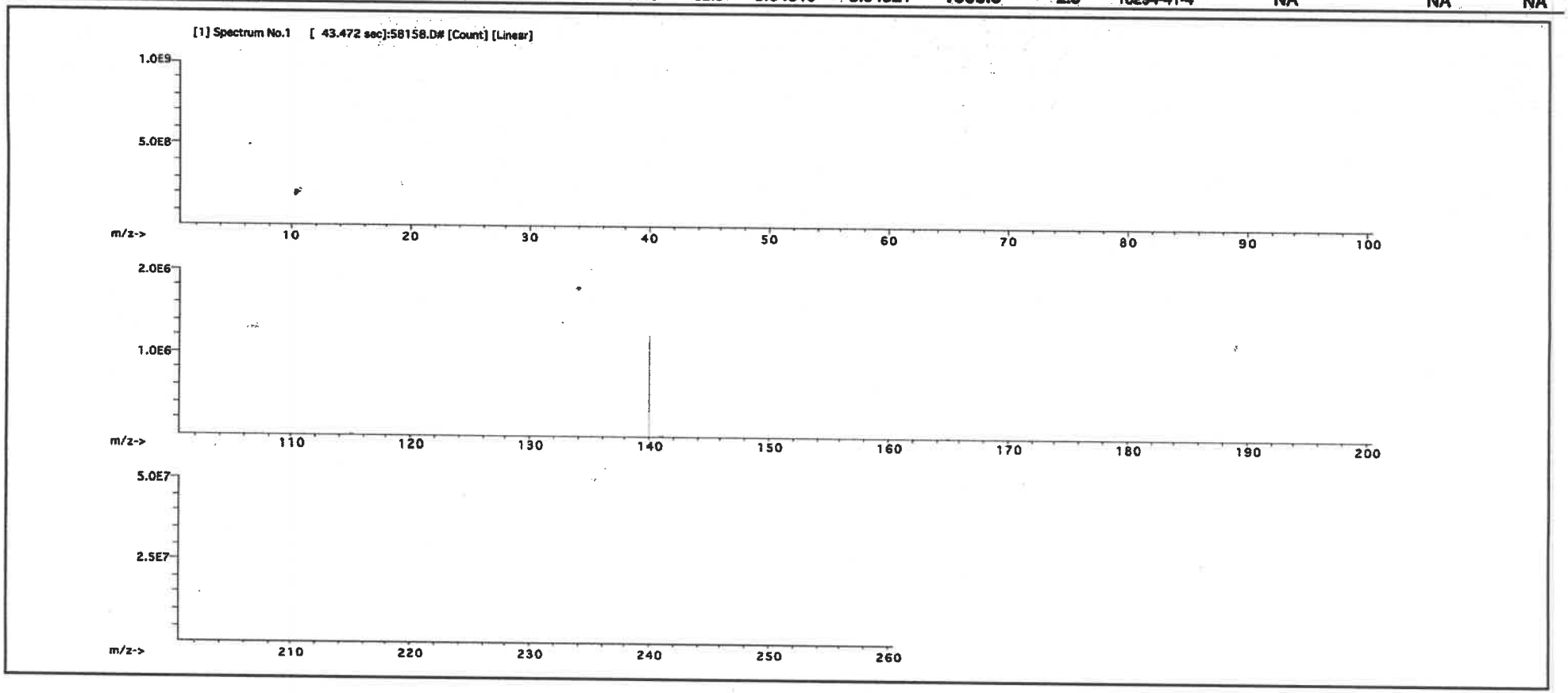
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	NA	NA	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	T	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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

IN5497 - IN5498 R: 03/17/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

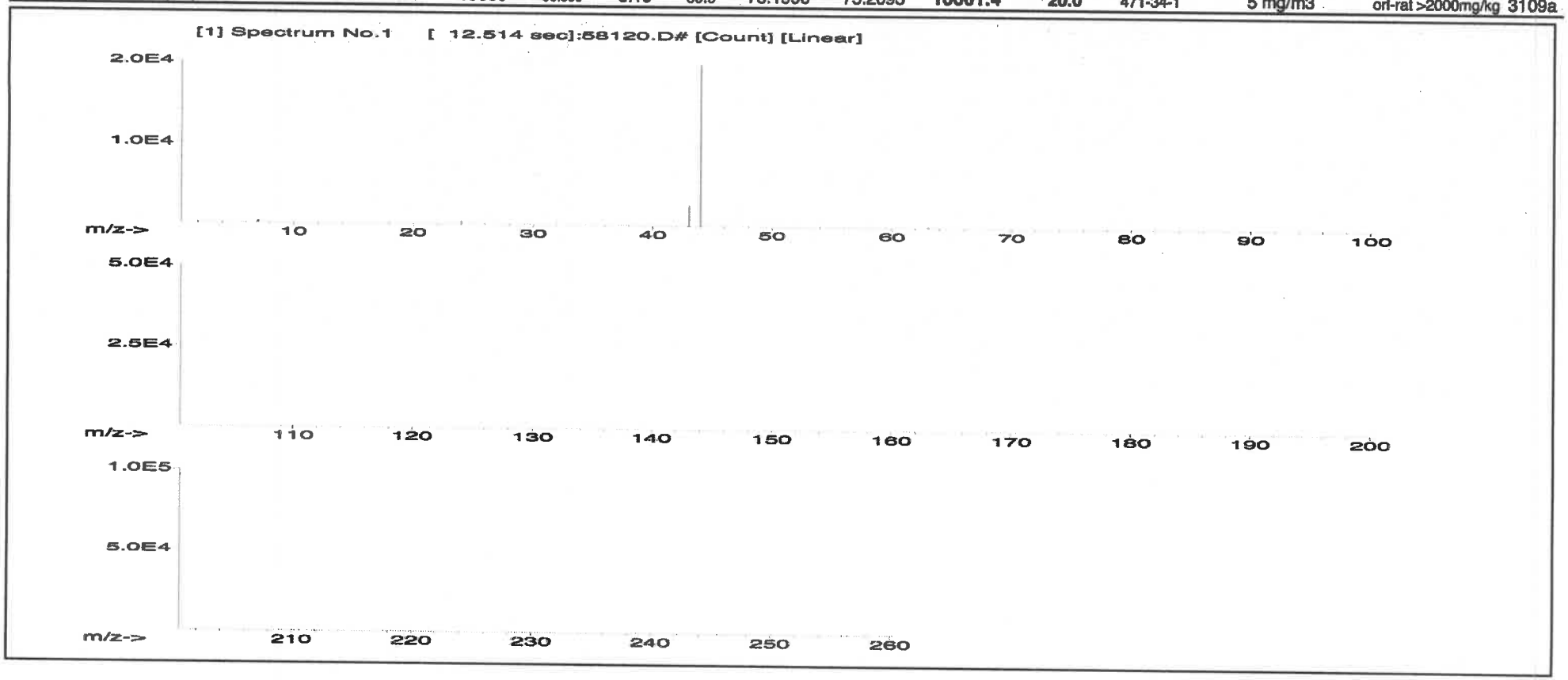
		Lot #	
Solvent:	21110221		Nitric Acid
	2%	60.0 (mL)	Nitric Acid

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.
* 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).

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5493 - M5708
Rad on 4/14/23
JMG

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 2

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5514 - M5515 R: 03/17/22

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 092122
Description: Iron (Fe)

Expiration Date: 092125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

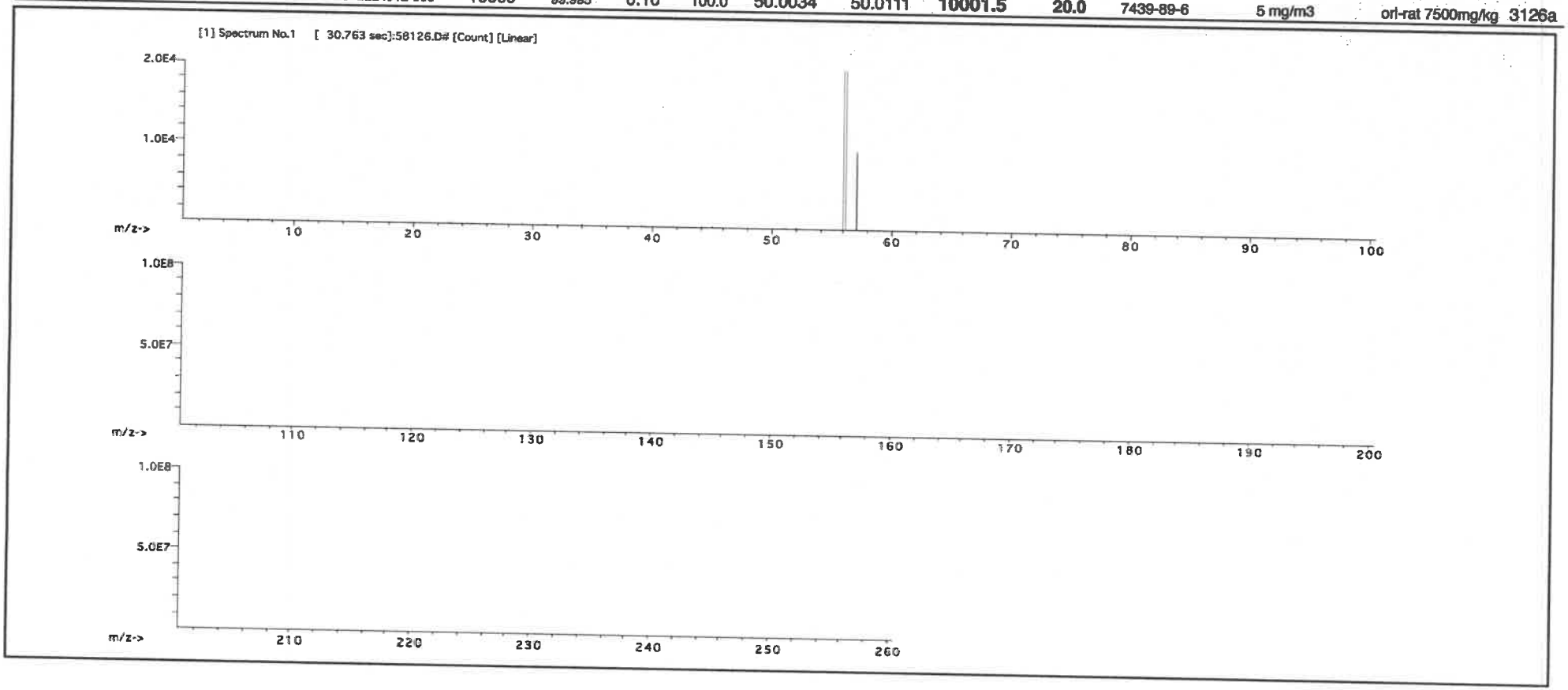
	Lot #		
Solvent:	20510011	Nitric Acid	
7.0%	350.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	092122
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:

* 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

M5658 R! 8/25/23

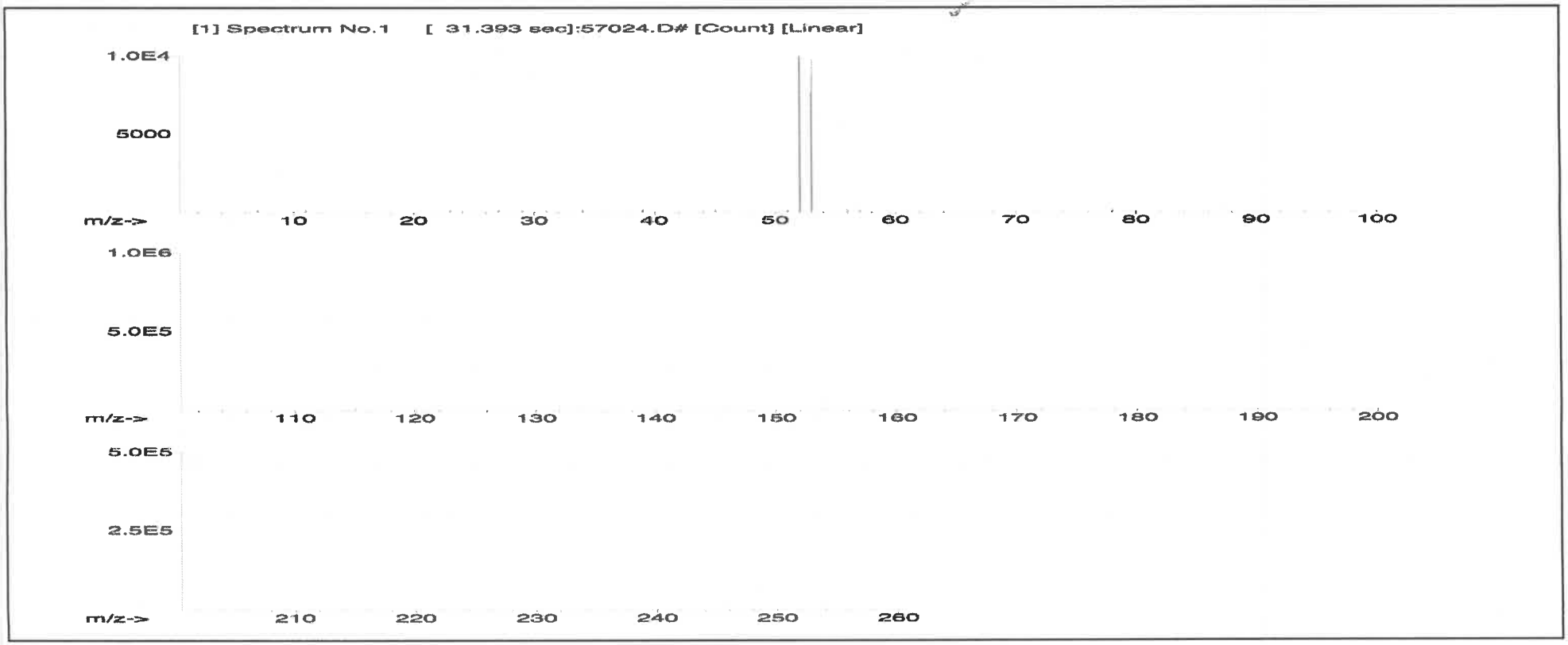
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

9673- 33

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 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 – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5697 R: 10/27/23

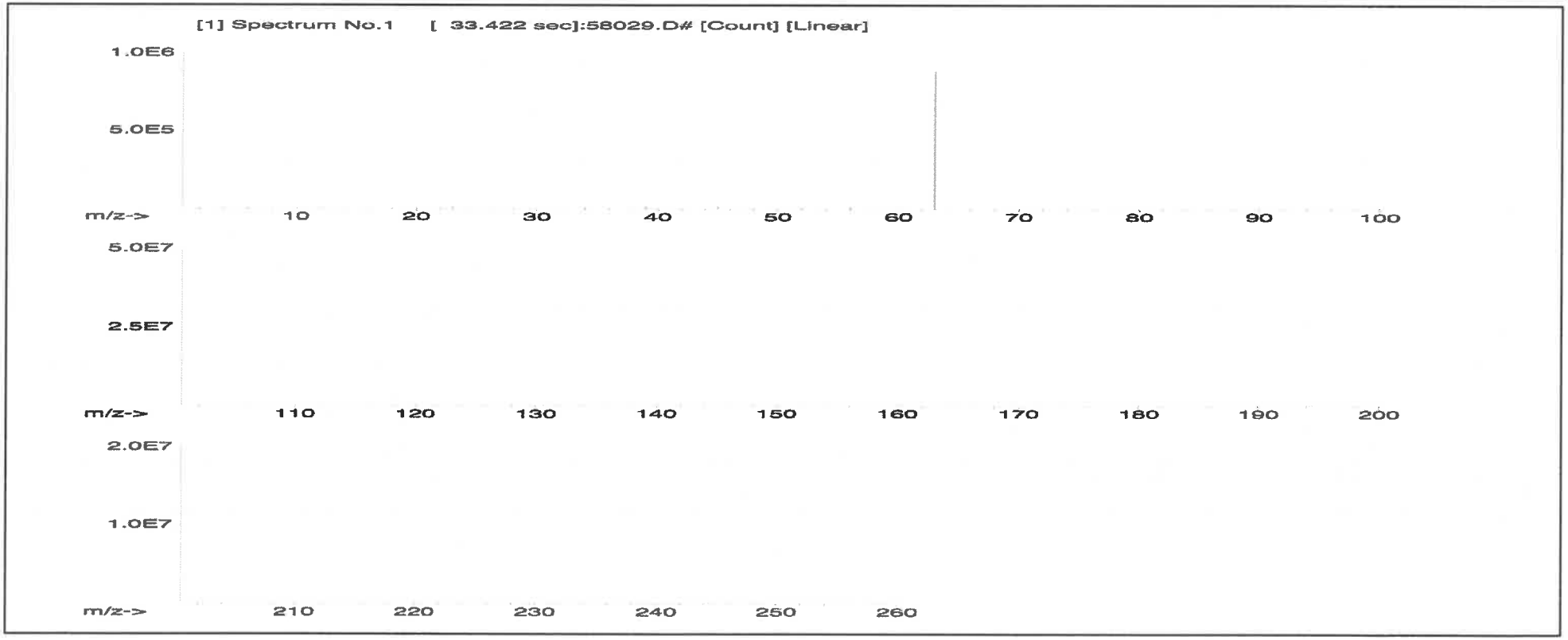
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5648 R: 10/27/23

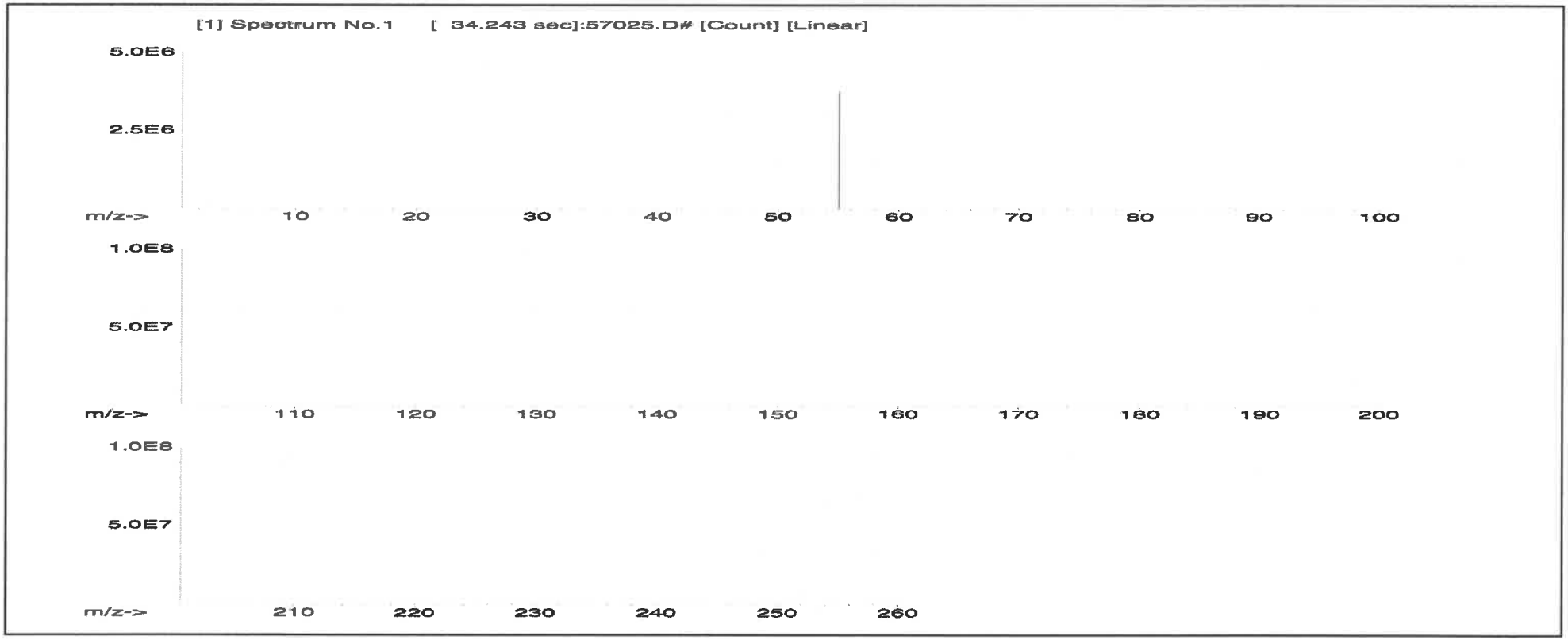
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 12/20/23 M5747

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

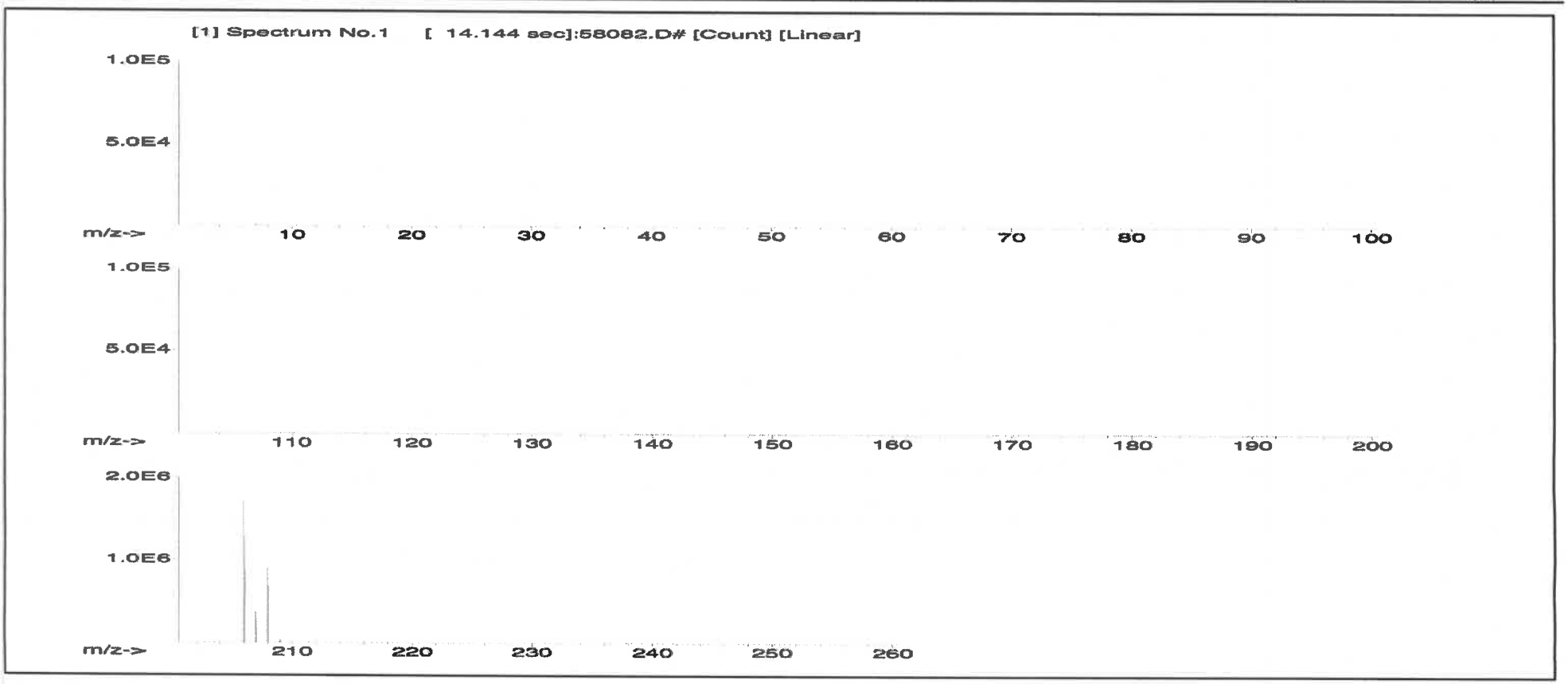
Weight shown below was diluted to (mL): 3000.41 ± 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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

R: 12/20/23 M5748

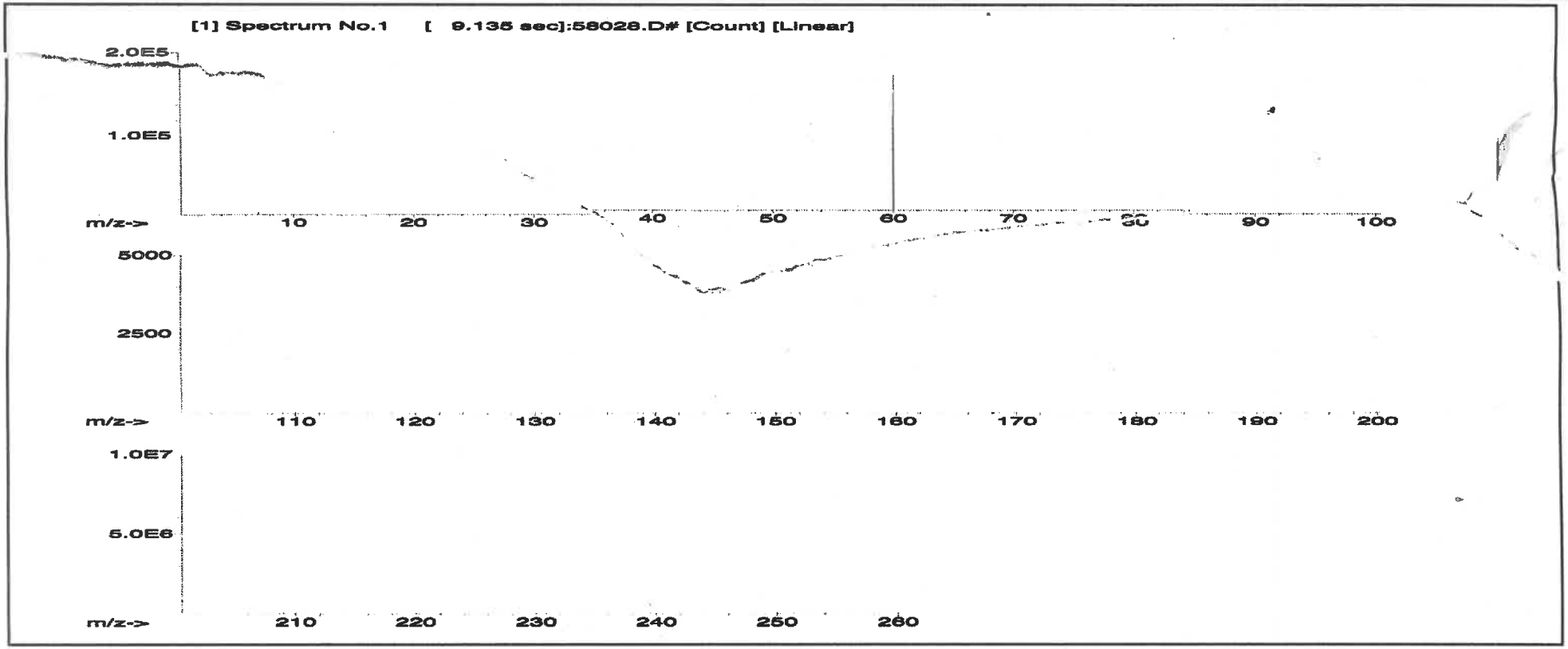
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	2.2	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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

M5768 M5769 (BP) R:1/3/24

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

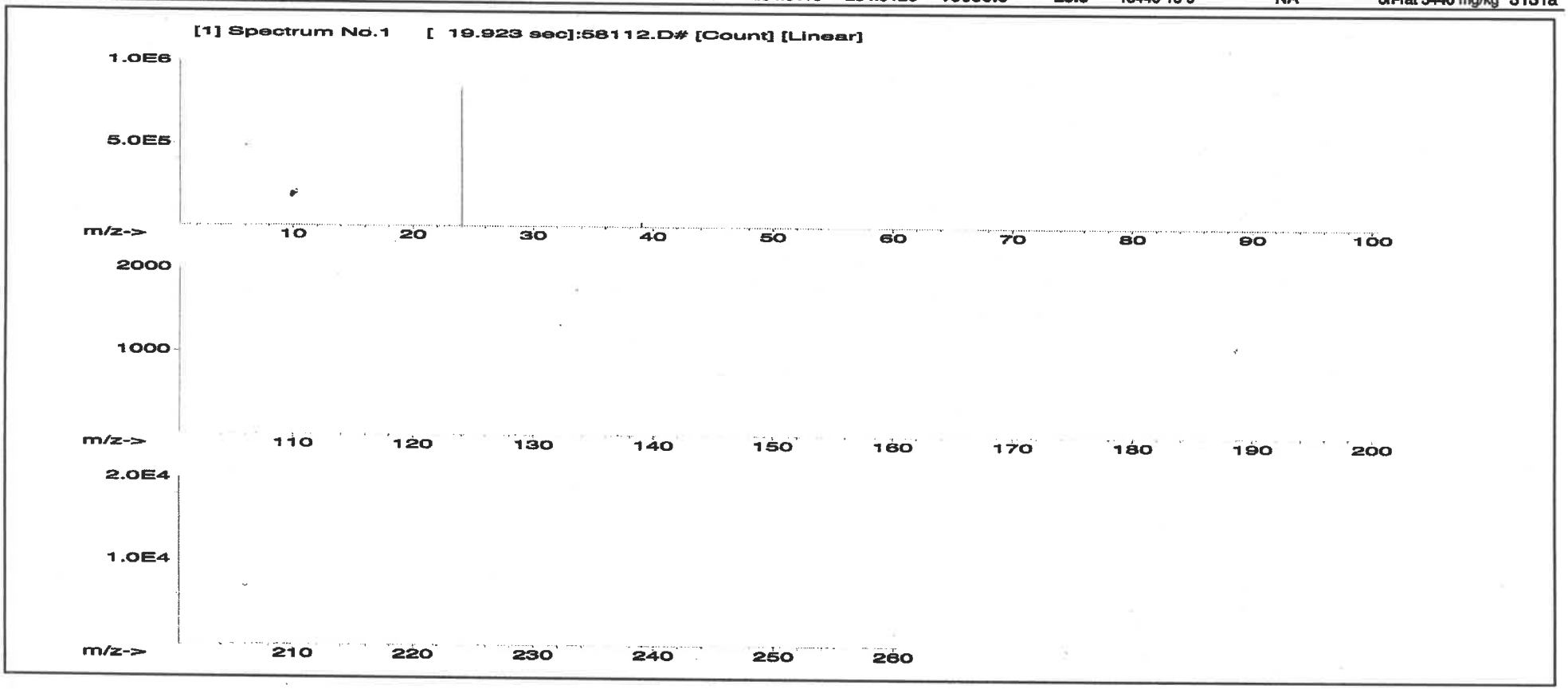
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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.

* 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

R: 02/09/24 M5798

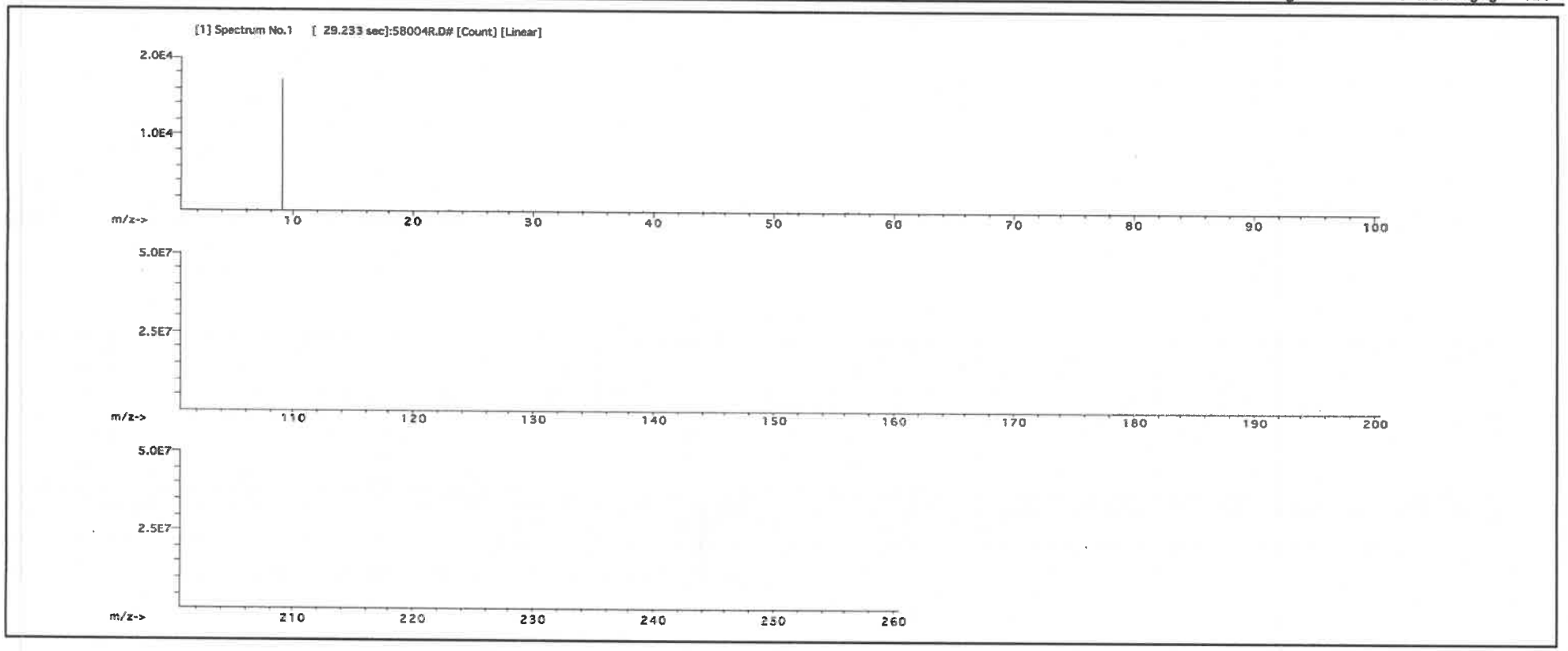
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R? 02/09/24 IV15799

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

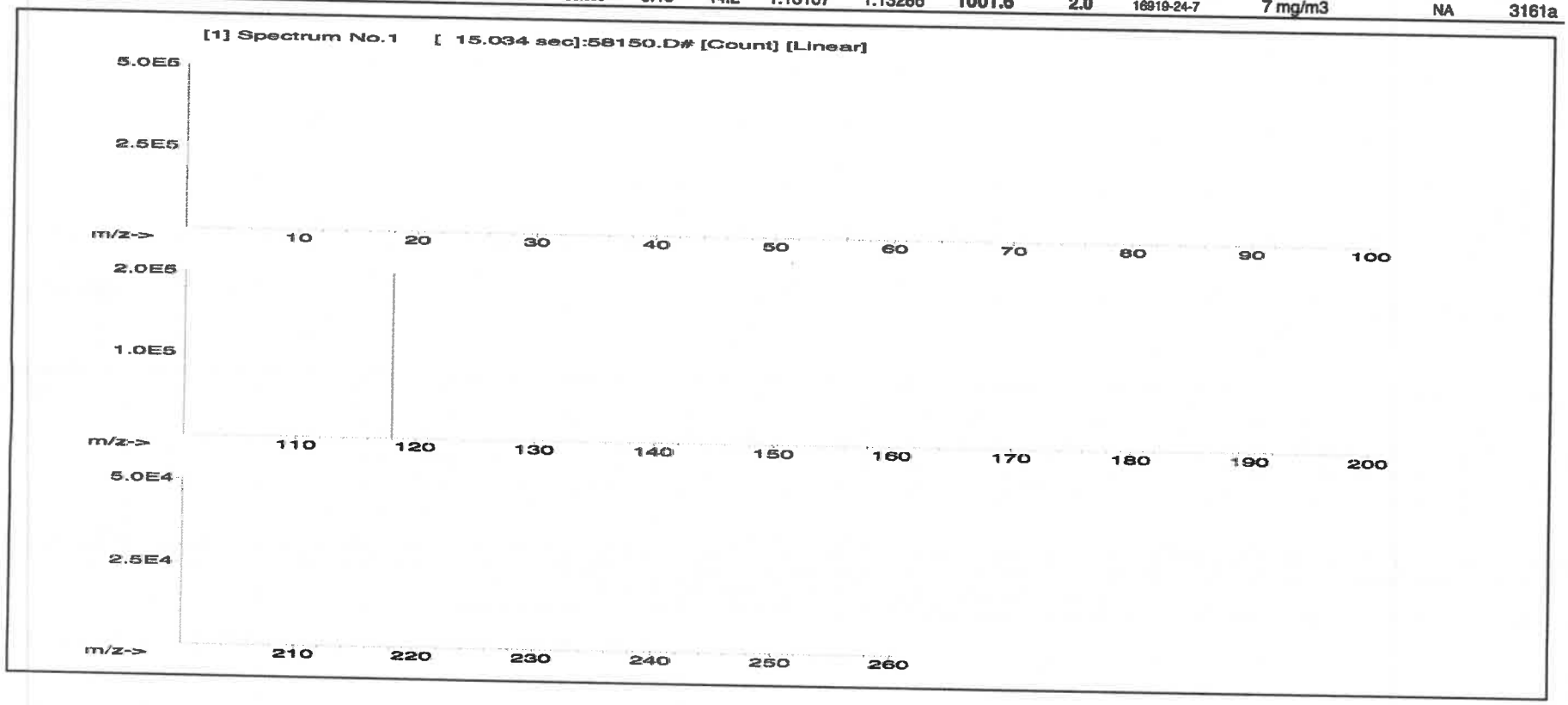
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* 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

R: 02/09/24 IM5800 BH

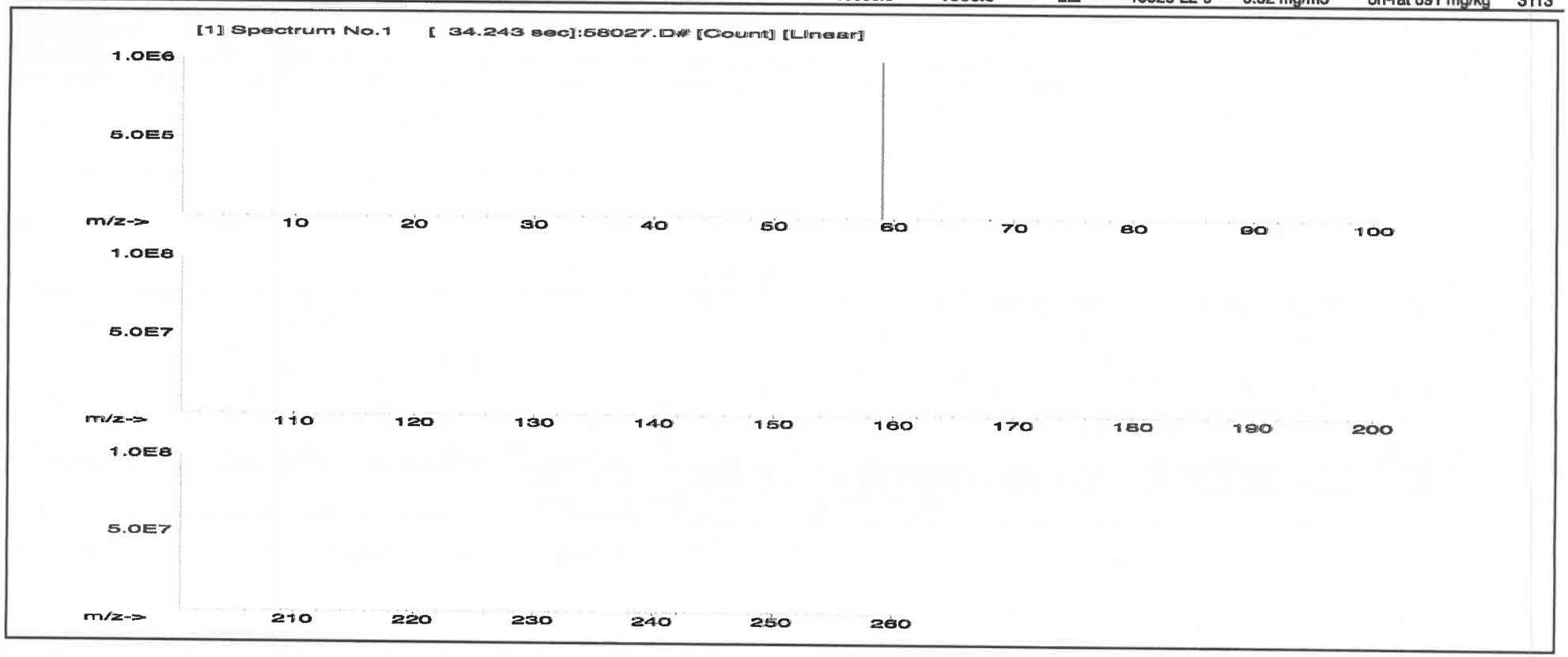
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 IM5801 BH

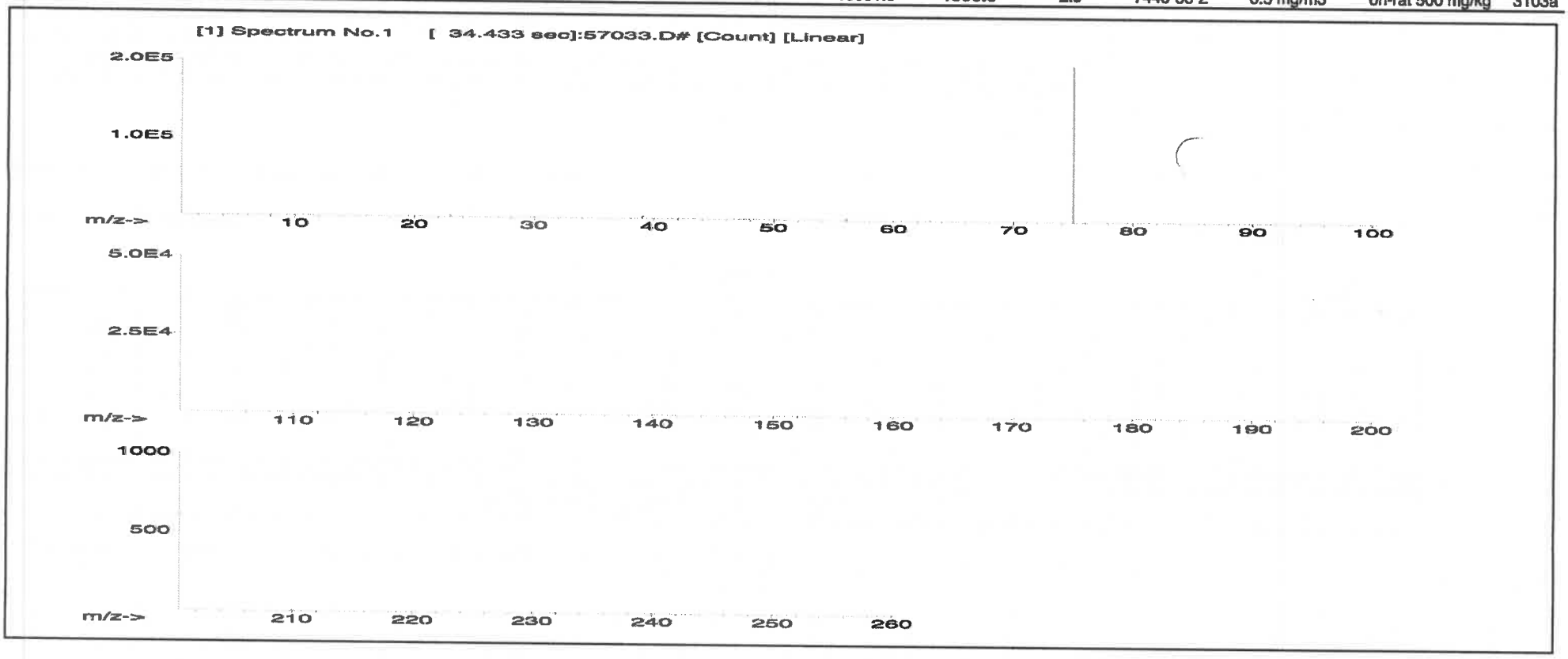
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.
* 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

A: 02/09/24 M.5814

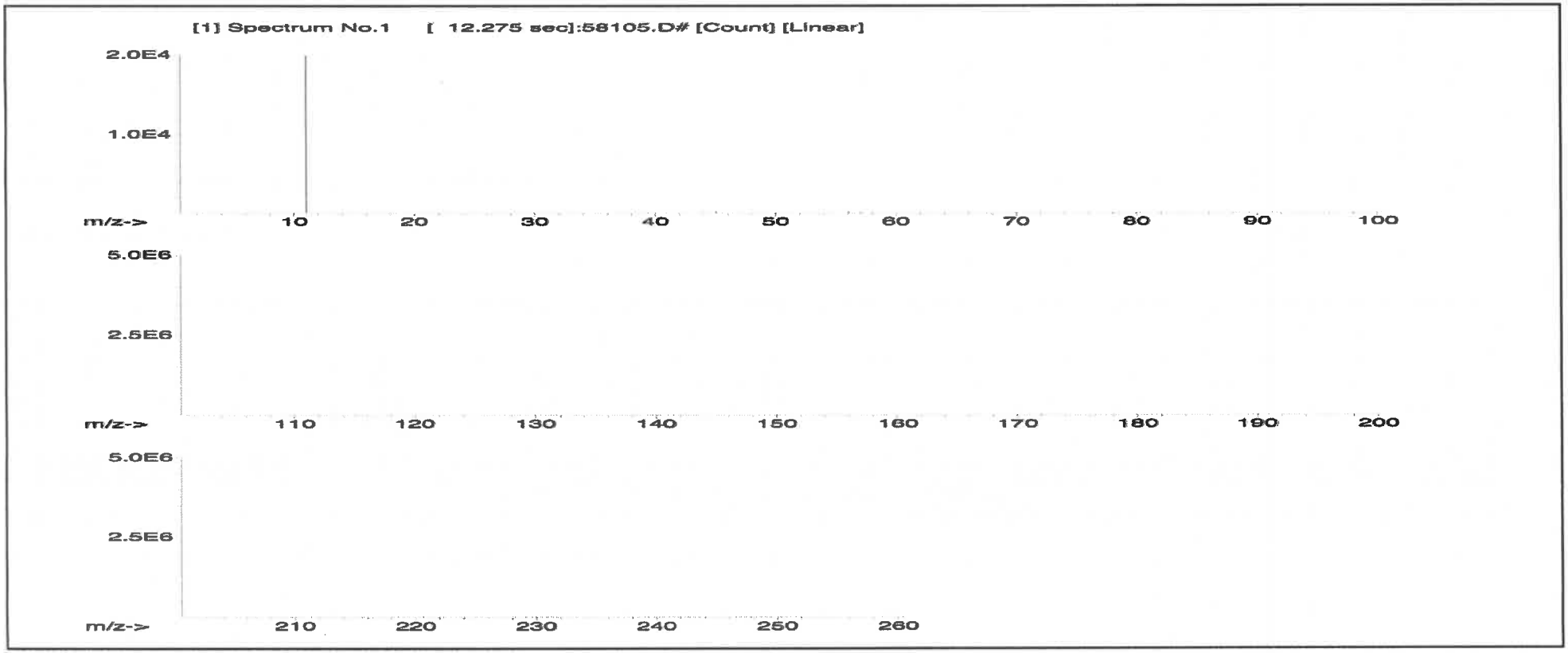
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57005**		**Solvent:**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**071123**				
Description:	**Boron (B)**		2.0%	40.0 (mL)	Ammonium hydroxide
Expiration Date:	071126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1999.48	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	IN018	BV092016A1	1000	99.9999	0.10	17.3	11.55772	11.56201	**1000.4**	**2.0**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* 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

R1 02/09/24. M58165

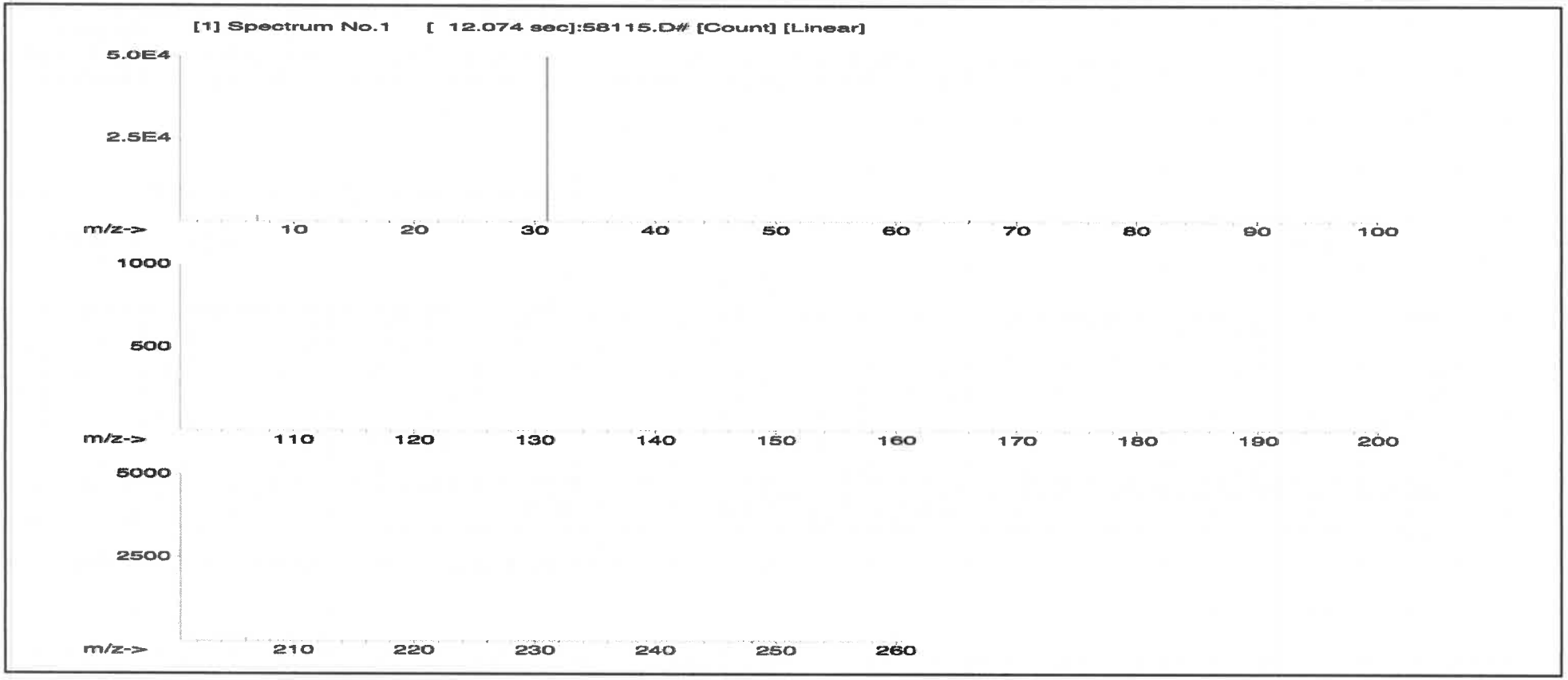
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.

* 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

R: 02/09/24 M5816

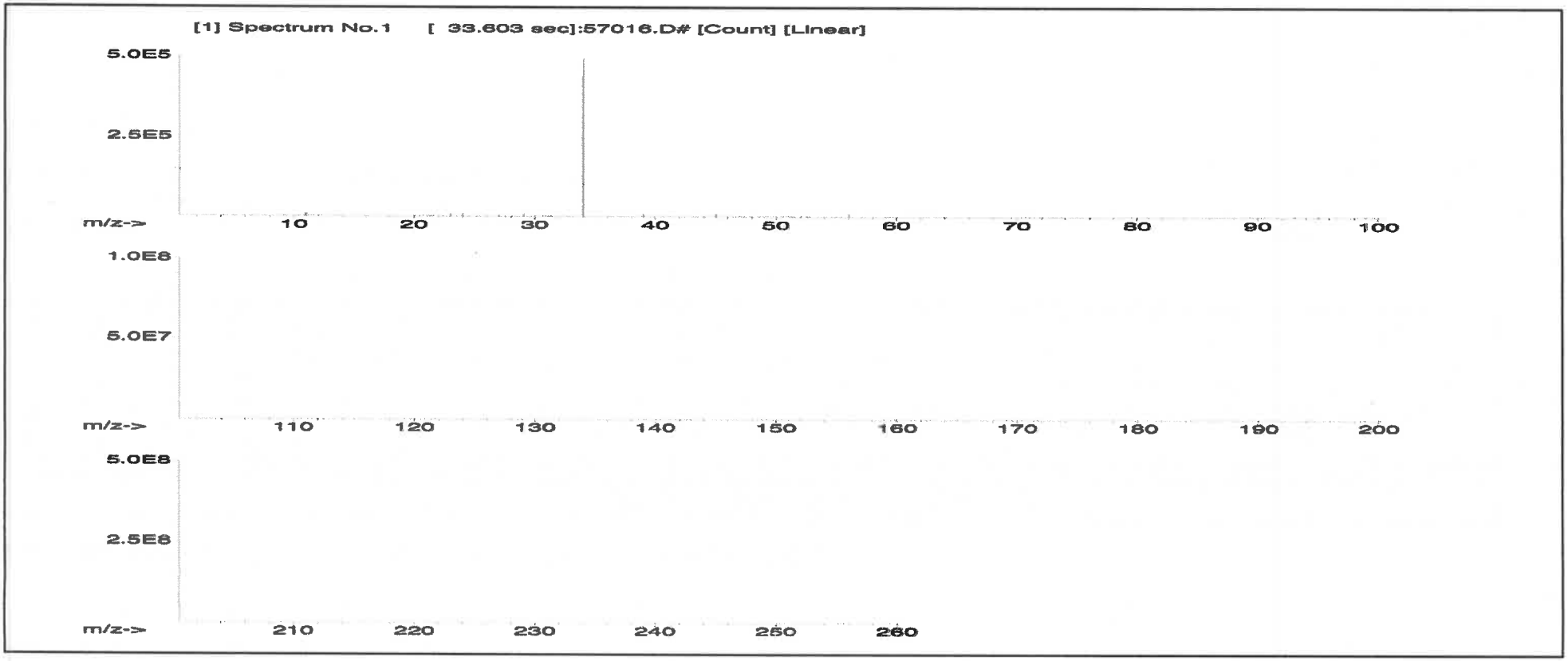
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5817

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

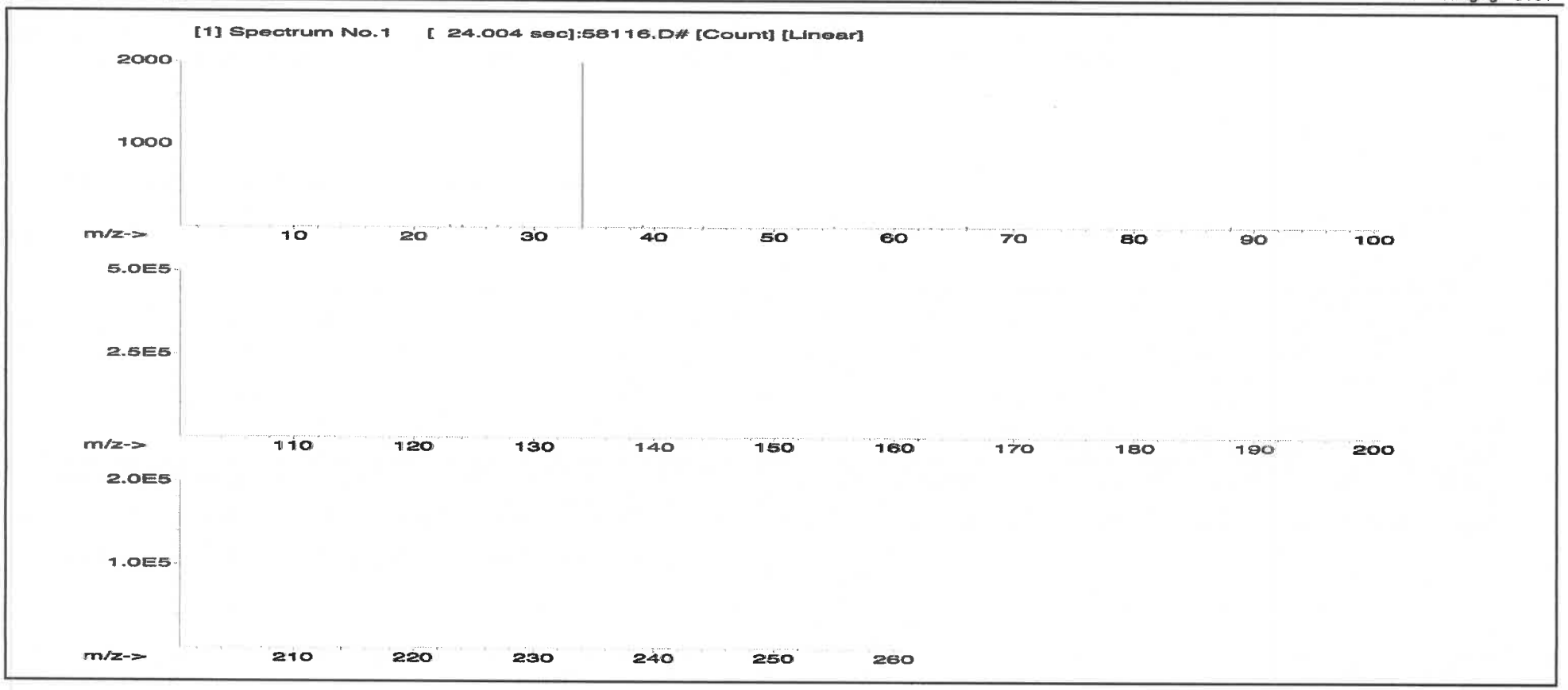
CERTIFIED WEIGHT REPORT:

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:

* 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

R: 02/09/24 M.5818

Lot #

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

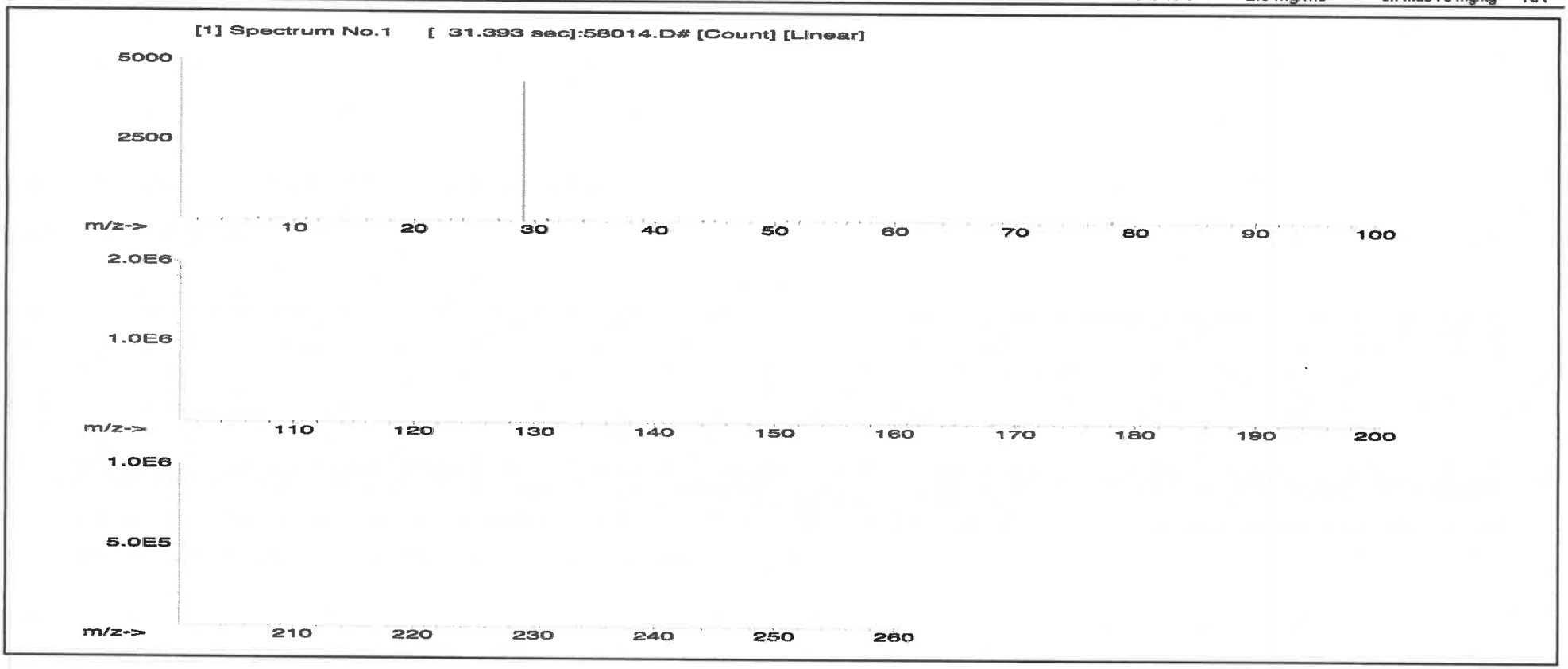
Aleah O'Brady

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5819

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

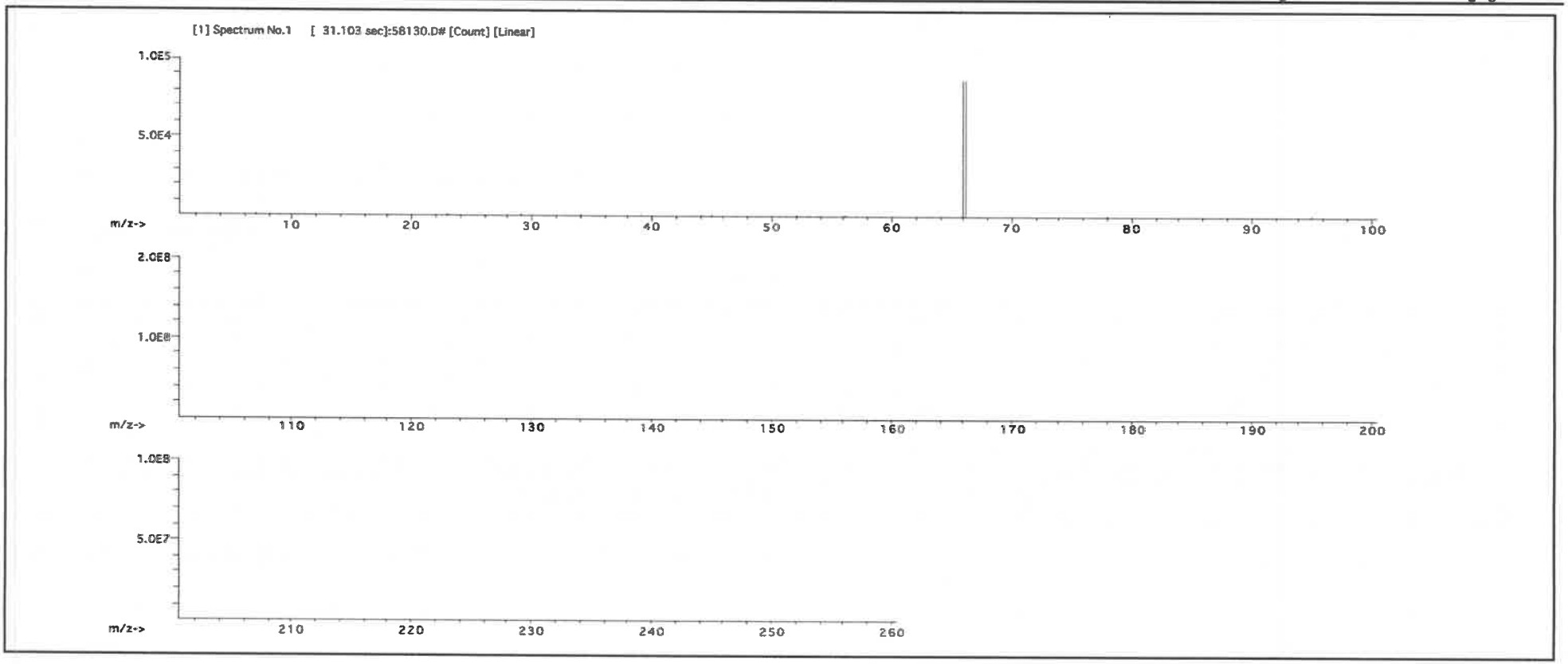
Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

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).
* 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

R: 02/09/24 M5820

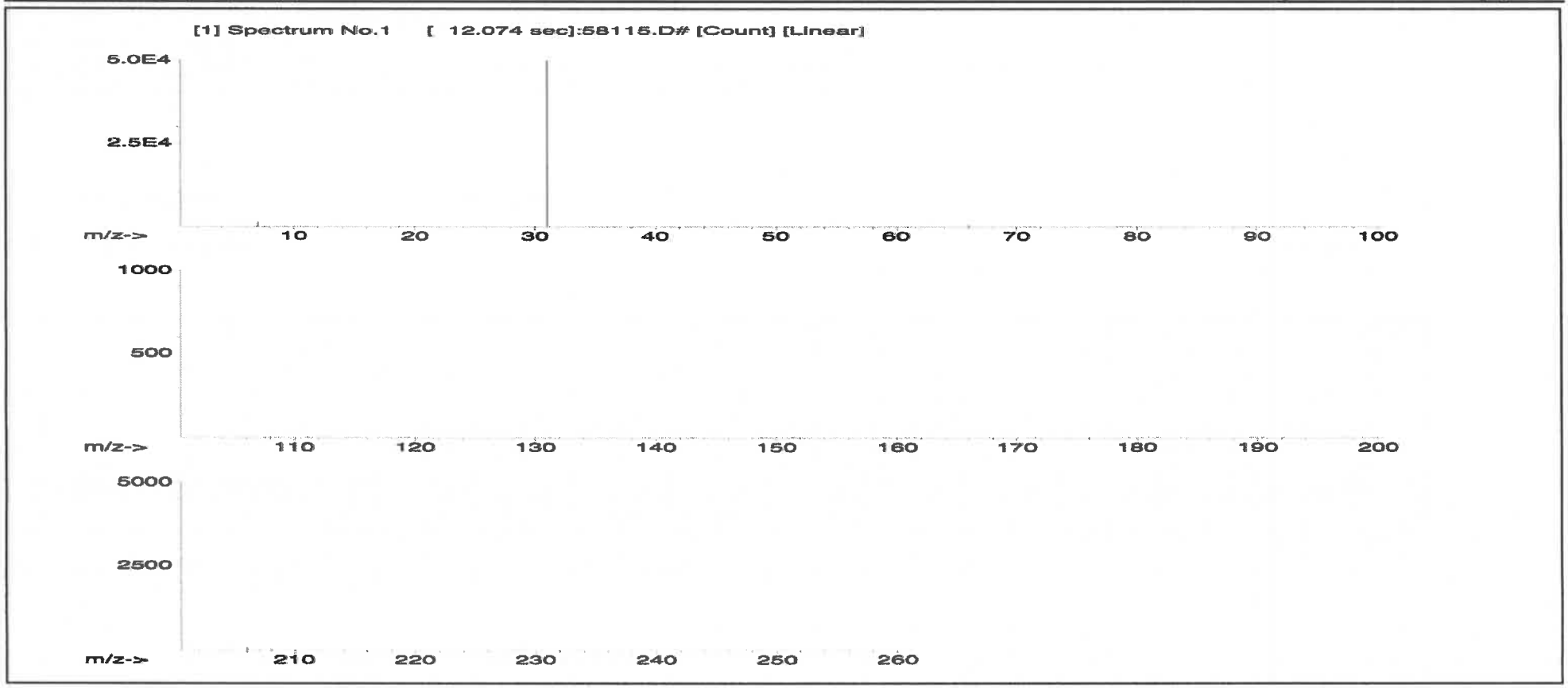
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.
* 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.

MTS28-37 MB
MTS53 MB 3/30/23

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

(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.

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5962 R! 06/14/24.

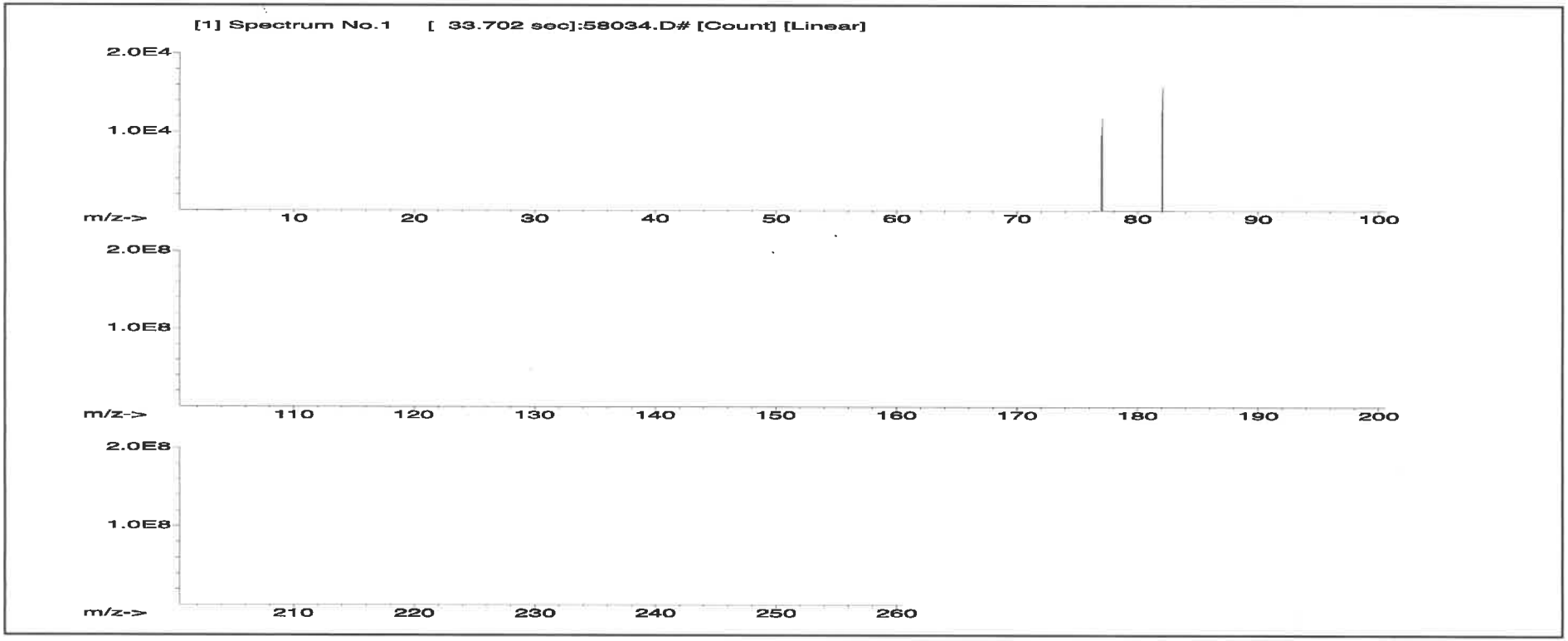
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
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:

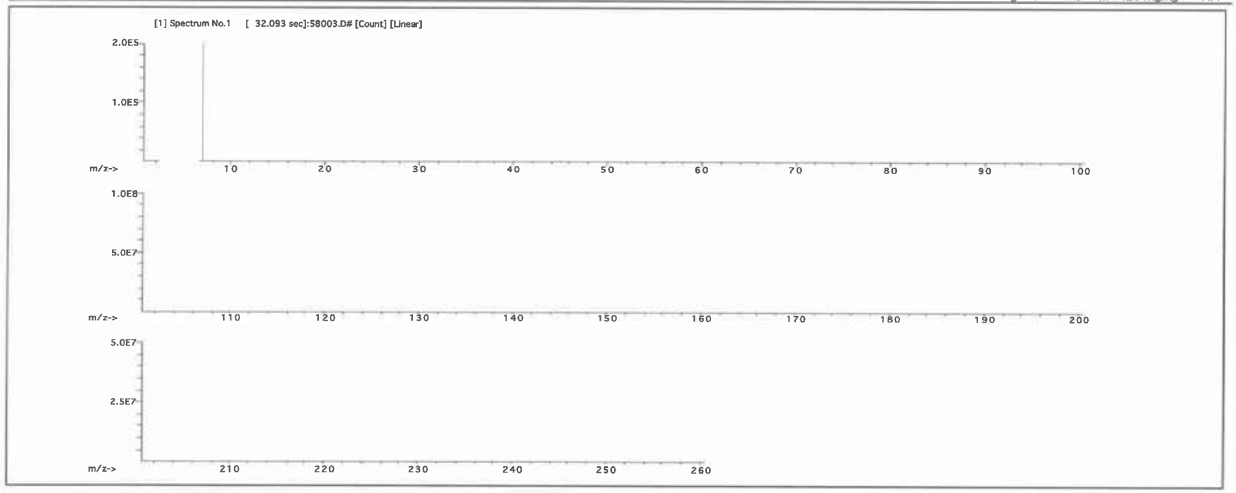
		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
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).

M5978, M5979

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 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:

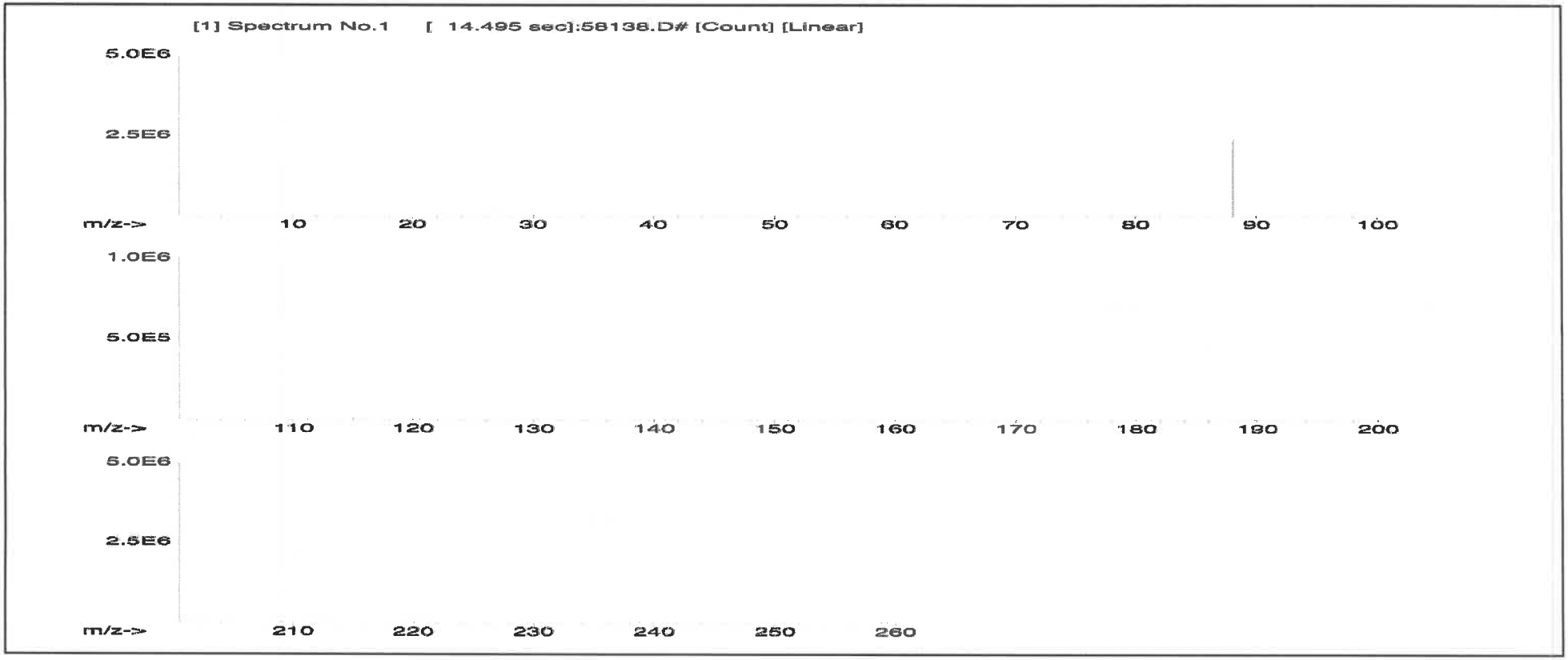
Part Number: 57038
Lot Number: 031524
Description: Strontium (Sr)

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).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

MS984
R:6/14/24

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

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

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

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 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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M6033

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

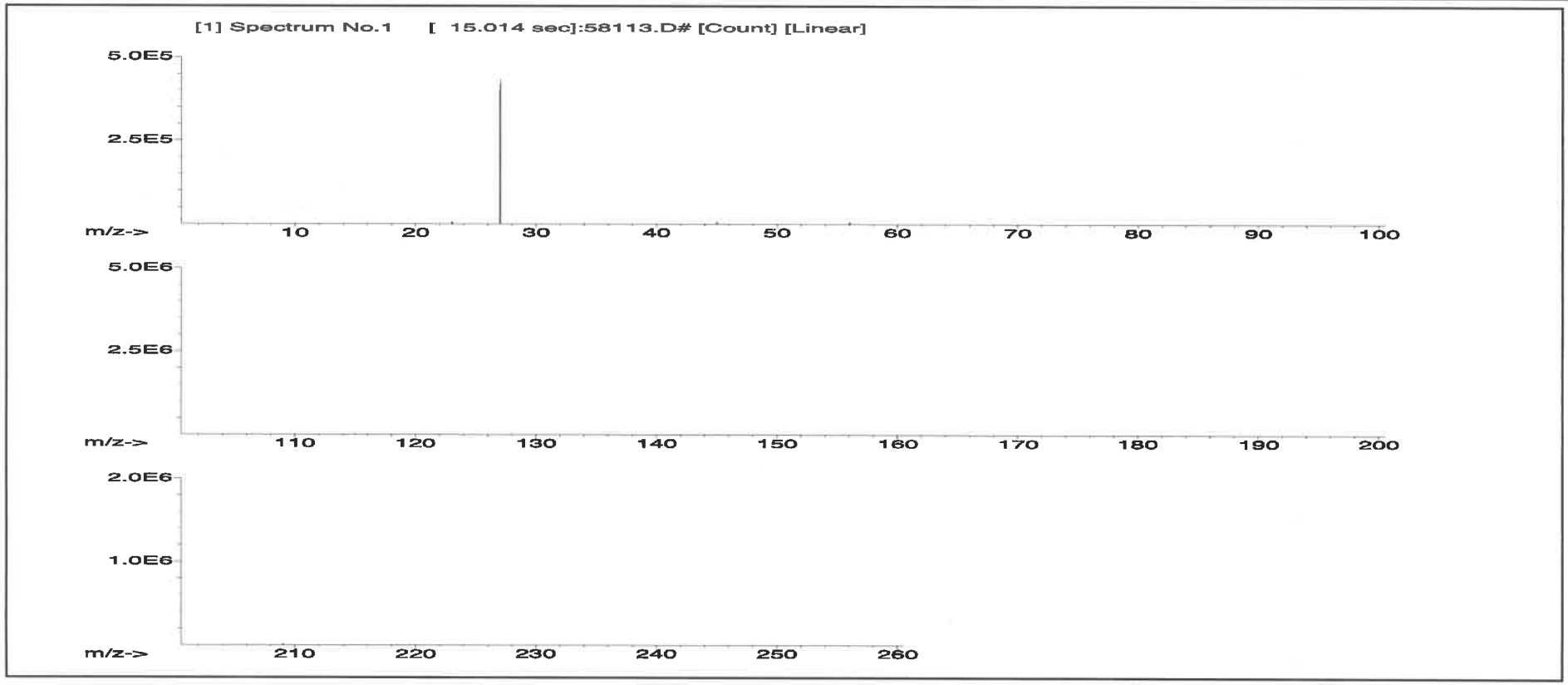
Part Number:	**58113**		**Solvent:**	20510011	Nitric Acid
Lot Number:	**011623**				
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05 Balance Uncertainty			
Weight shown below was diluted to (mL):	2000.02	0.058 Flask Uncertainty			

Lot #

Giovanni Esposito

Formulated By:	Giovanni Esposito	011623
Reviewed By:	Pedro L. Rentas	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

R: 9/2/24.

Certificate of Analysis

M6080, M6081, M6082, M6083, M6084

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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

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

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®

Recieve → 10/9/24
Met dig

M6118

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
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	< 0.2 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	37.0 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	1 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.: 22E1662006

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	1.0 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	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 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	< 0.3 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.: 22E1662006

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

avantor™ | J.T.Baker®

M6119

Recieve -> 10/9/24
Met dig

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | 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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Expiration Date: 122226
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

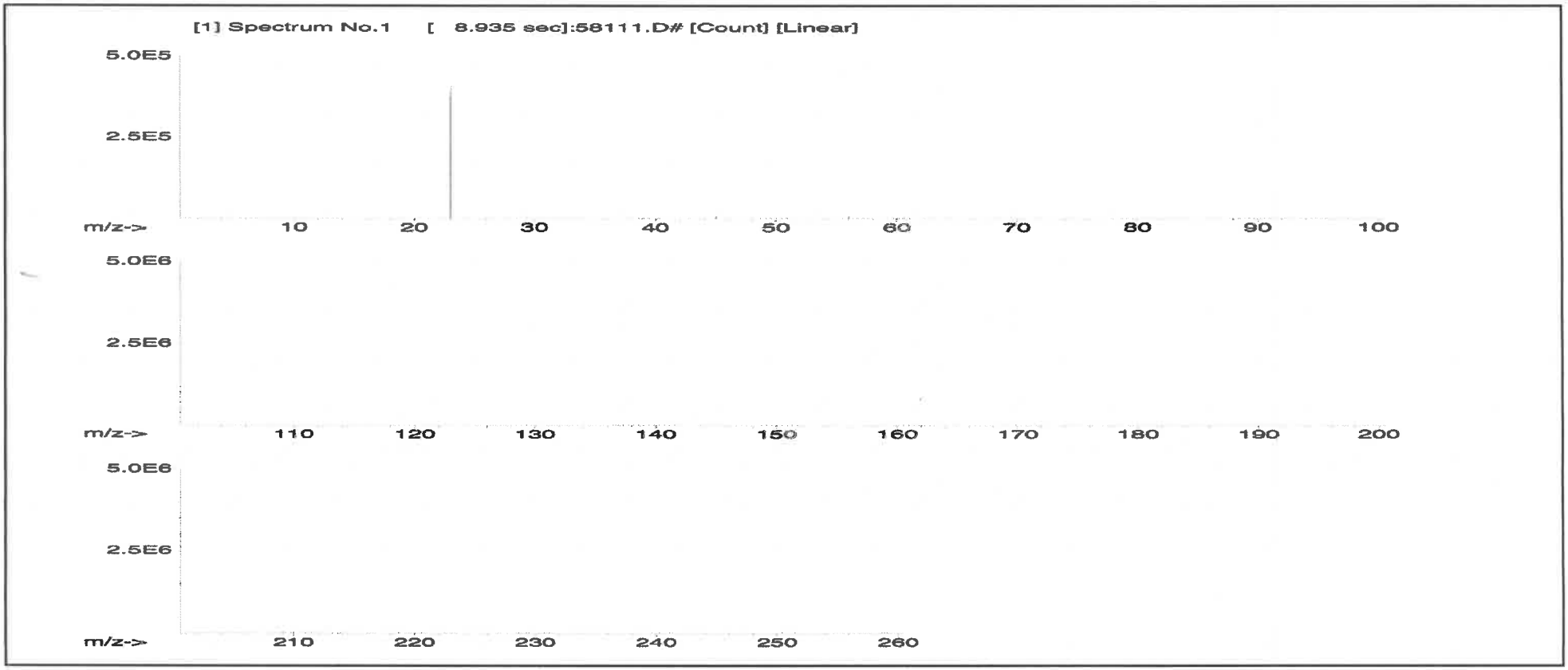
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Aleah O'Brady

Formulated By:	Aleah O'Brady	122223
Reviewed By:	Pedro L. Rentas	122223

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5802, M5803

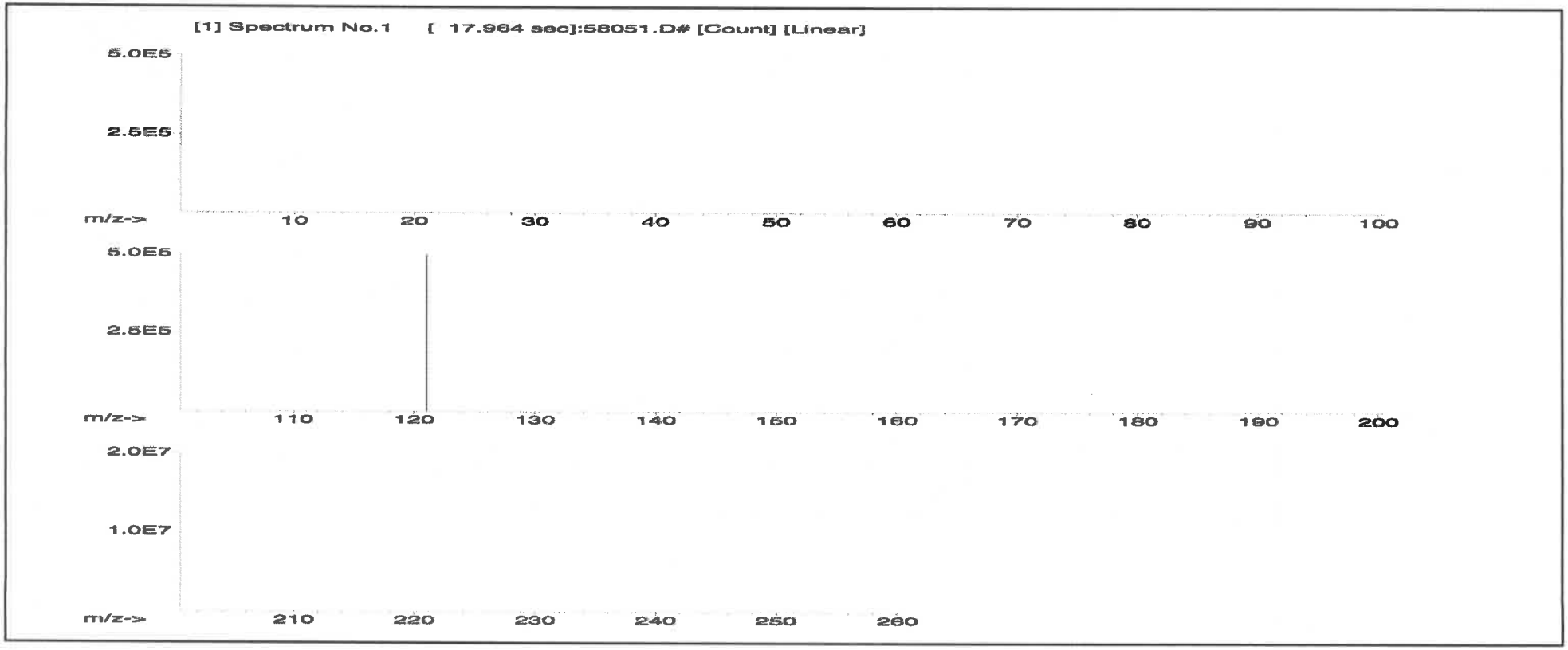
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**120523**			
Description:	**Antimony (Sb)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	120526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Rentas	120523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

M6030

R: 8/5/24

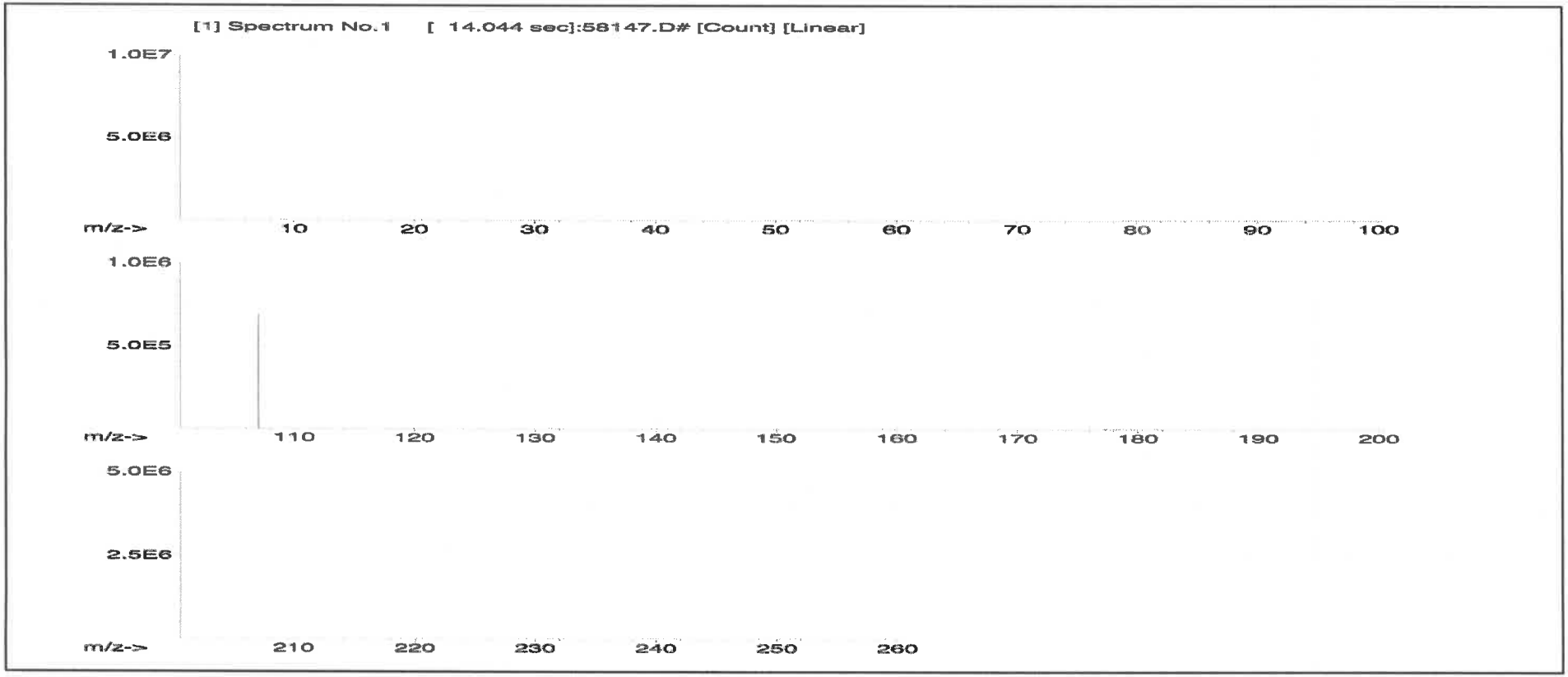
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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:

* 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

M6023

R ! 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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		

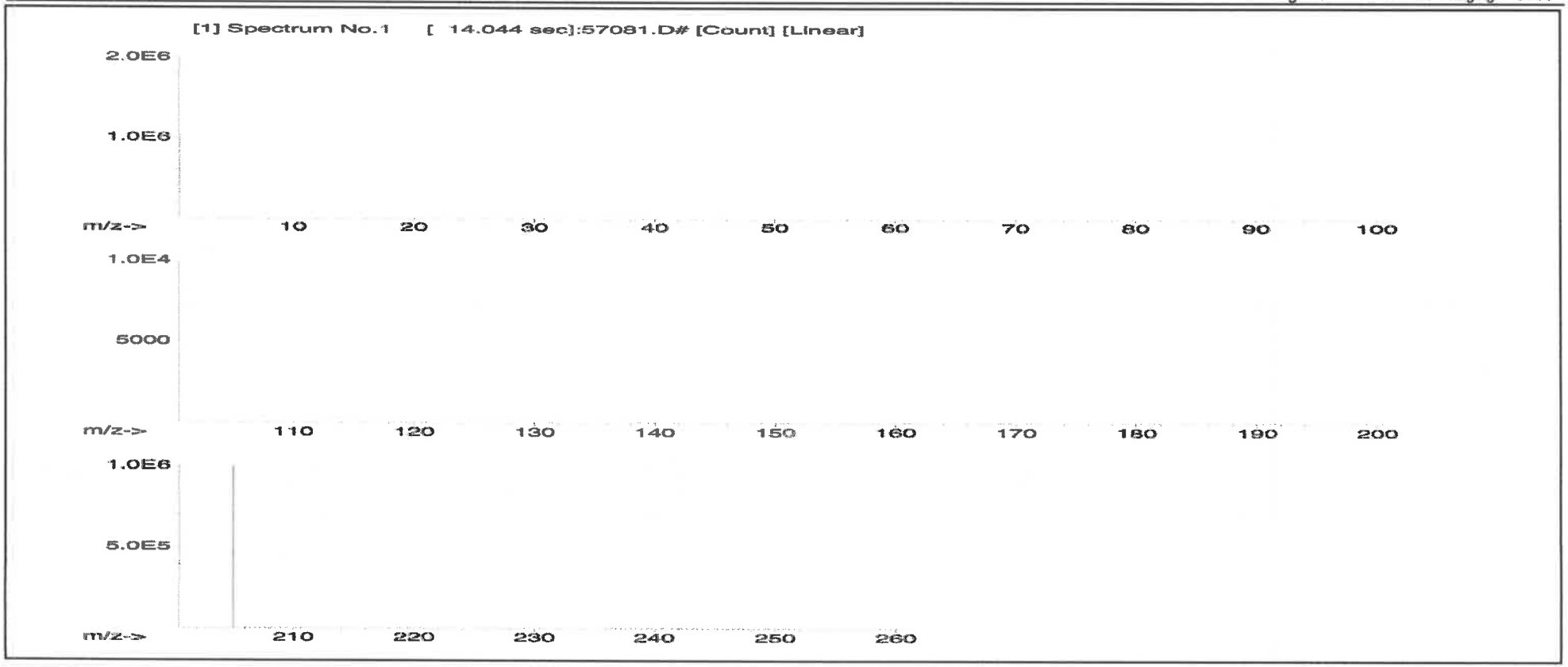
Aleah O'Brady

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
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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

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	

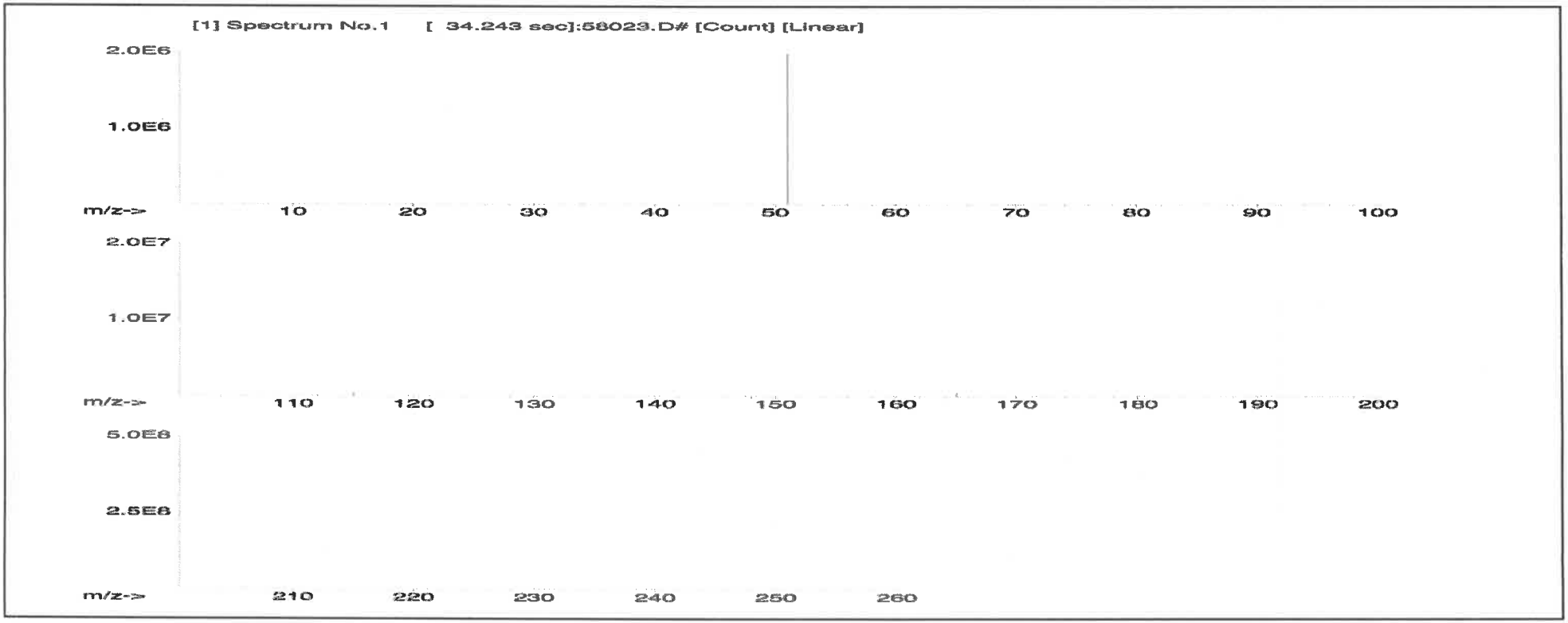
Aleah O'Brady

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).

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

QUOTE NO. P4722
COC Number 2046205

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Walsh Construction Company
ADDRESS: 150 CLOVE ROAD, 11th FLOOR
CITY LITTLE FALLS STATE: NJ ZIP: 07424
ATTENTION:
PHONE: 201-691-6000 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: C547A Construction of Shafts 17B1-18B1
PROJECT NO.: 220084 LOCATION: Shaft 18B-1
PROJECT MANAGER: Jesse SYLVESTRI
e-mail: JSYLVESTRI@WALSHGROUP.COM
PHONE: 201-681-9740 FAX:

CLIENT BILLING INFORMATION

BILL TO: JESSE SYLVESTRI PO#:
ADDRESS: 150 CLOVE ROAD, 11th FLOOR
CITY LITTLE FALLS STATE: NJ ZIP: 07424
ATTENTION: Jesse SYLVESTRI PHONE: 201-681-9740

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: Standard TAT DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☑ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1 TCL VOCs + TICs 8260C
2 TCL SVOCs + 10 TICs, 8270D
3 TAL Metals 6010D/7471B
4 Total Cyanide 9012C Tri + Hex Chrome 3060A/7196A
5 Pest/Herb/PCB 8081B/8082A
6 SPLP VOCs, SVOCs, Metals, Pest/Herb/PCB
7 TCLP SVOCs, Metals, Pest/Herb/PCB
8 NJ EPH 10/93 GRO 8015D
9 RCRA Characteristics (Reactivity, Corrosivity, Ignitability) SW846 Ch 7.3
Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES Method Blank	1	2	3	4	5	6	7	8	9	COMMENTS
1.	WC-1 (5.5)	S		✓	11/5/24	1155	5		X									
2.	WC-1 (3.5)	S		✓		1225	5		X									
3.	WC-1 (0-6)	S	✓			1240	10			X	X	X	X	X	X	X	X	
4.	WC-2 (2)	S		✓		1000	5		X	1								
5.	WC-2 (4)	S		✓		1020	5		X									
6.	WC-2 (0-6)	S	✓			1045	10			X	X	X	X	X	X	X	X	
7.	WC-3 (5)	S		✓		815	5		X									
8.	WC-3 (3)	S		✓		845	5		X									
9.	WC-3 (0-6)	S	✓			910	10			X	X	X	X	X	X	X	X	
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME	RECEIVED BY:
1 RELINQUISHED BY SAMPLER:	11/5/24 1:15pm	1. Bernie DE
2 RELINQUISHED BY SAMPLER: Bernie DE	11-5-24 1406	2. 1406 11-5-24
3 RELINQUISHED BY SAMPLER:	11-5-24 1730	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON-COMPLIANT ☐ COOLER TEMP _____ °C
Comments: Additional Analyses: Paint Filter 9095A Total Solids SM2540B Total Volatile Solids SM2540B Ammonia at Nitrogen 350.1 Chemical Oxygen Demand 410.4 0.1 and Grease 9071B full analyses list in email from Bill Fitchett 11/5/24

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Chem Tech © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4722 WALS01
Client Name : Walsh Construction Compa
Client Contact : Kayla Timony
Invoice Name : Walsh Construction Compa
Invoice Contact : Kayla Timony

Order Date : 11/5/2024 3:33:08 PM
Project Name : NYCDEP C547A - Shafts 1
Receive DateTime : 11/5/2024 5:32:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 2
EDD Type : Excel NY
Hard Copy Date :
Date Signoff : 11/6/2024 11:17:21 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4722-01	WC-1(5.5)	Solid	11/05/2024	11:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-06	WC-2(2)	Solid	11/05/2024	10:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-11	WC-3(5)	Solid	11/05/2024	08:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-17	WC-1(3.5)	Solid	11/05/2024	12:25					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-19	WC-2(4)	Solid	11/05/2024	10:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-21	WC-3(3)	Solid	11/05/2024	08:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4722 WALS01
Client Name : Walsh Construction Compa
Client Contact : Kayla Timony
Invoice Name : Walsh Construction Compa
Invoice Contact : Kayla Timony

Order Date : 11/5/2024 3:33:08 PM
Project Name : NYCDEP C547A - Shafts 1
Receive DateTime : 11/5/2024 5:32:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 2
EDD Type : Excel NY
Hard Copy Date :
Date Signoff : 11/6/2024 11:17:21 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By :
Date / Time : 11/6/24 1218

Received By : Roman 12:20
Date / Time : 11/06/24
Storage Area : VOA Refridgerator Room