DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC

Client : Portal Partners Tri-Venture

Project Location : NJ

Project Number : 9500000878

Laboratory Sample ID(s) : P4578

Sampling Date(s) : 10/25/2024

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **,1030,1311,1311 ZHE, 6010D, 7196A, 7470A, 7471B, 8081B, 8082A, 8151A, 8260-Low, 8260D, 8270E, 9012B, 9034, 9045D, NJEPH**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☑ Yes ☐ No
1A	Were the method specified handling, preservation, and holding time requirements met?	☐ Yes ☑ No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☑ Yes ☐ No ☐ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☐ Yes ☑ No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	☑ Yes ☐ No ☑ Yes ☐ No ☐ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☑ Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was “No” (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is “No”, the data package does not meet the requirements for “Data of Known Quality.”

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

Cover Page

Order ID : P4578

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
P4578-01	WB-305-SW
P4578-02	WB-305-SW-1
P4578-03	WB-305-TOP
P4578-04	WB-305-TOP-1
P4578-05	WB-305-BOT
P4578-06	WB-305-BOT
P4578-07	WB-305-BOT-1
P4578-08	WB-305-BOT-1
P4578-09	TB-10252024

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: 11/8/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4578
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 10/25/2024.
3 Water samples were received on 10/25/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL,Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils) and 3010 (waters).The analysis and digestion of Mercury was based on method 7470A. The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
Sample WB-305-SW was diluted due to high concentrations for Sodium & Sample WB-305-SW-1 was diluted due to high concentrations for Sodium & Sample WB-305-TOP was diluted due to high concentrations for Mercury & Sample WB-305-TOP-1 was diluted due to high concentrations for Chromium and Mercury.
The Blank Spike met requirements for all samples.
The Duplicate (BP-F-20DUP) analysis met criteria for all samples except for Calcium due to sample matrix interferece.
The Matrix Spike (BP-F-20MS) analysis met criteria for all samples except for Beryllium and Selenium due to Chemical Interference during Digestion Process. The Matrix Spike (MW-1MS) analysis met criteria for all samples except for Silver and Zinc due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (BP-F-20MSD) analysis met criteria for all samples except for Beryllium and Selenium due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (MW-1MSD) analysis met criteria for all samples except for Silver and Zinc due to Chemical Interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.
The Serial Dilution (BP-F-20L) met criteria for all samples except for Aluminum, Calcium, Chromium, Copper, Iron, Magnesium and Manganese sample matrix interference.

E. Additional Comments:

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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 #: **P4578**

	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: **SOHIL JODHANI** **Date:** **11/08/2024**

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

LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	**WB-305-SW**	**Water**			**10/25/24**			**10/25/24**
			Mercury	7470A		10/25/24	10/28/24	
			Metals ICP-TAL	6010D		10/26/24	10/29/24	
P4578-02	**WB-305-SW-1**	**Water**			**10/25/24**			**10/25/24**
			Mercury	7470A		10/25/24	10/28/24	
			Metals ICP-TAL	6010D		10/26/24	10/29/24	
P4578-03	**WB-305-TOP**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4578-04	**WB-305-TOP-1**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
			Metals ICP-TAL	6010D		10/25/24	11/08/24	
P4578-05	**WB-305-BOT**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP ICP Metals	6010D		10/27/24	10/28/24	
			TCLP Mercury	7470A		10/28/24	10/29/24	
P4578-07	**WB-305-BOT-1**	**SOIL**			**10/25/24**			**10/25/24**
			Mercury	7471B		10/28/24	10/29/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP ICP Metals	6010D		10/27/24	10/28/24	
			TCLP Mercury	7470A		10/28/24	10/29/24	

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

Hit Summary Sheet
SW-846

SDG No.: P4578 **Order ID:** P4578

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-305-SW								
P4578-01	WB-305-SW	Water	Aluminum	116		28.3	50.0	ug/L
P4578-01	WB-305-SW	Water	Antimony	2.72	J	2.06	25.0	ug/L
P4578-01	WB-305-SW	Water	Barium	31.8	J	6.28	50.0	ug/L
P4578-01	WB-305-SW	Water	Calcium	173000		33.0	1000	ug/L
P4578-01	WB-305-SW	Water	Chromium	5.67		0.66	5.00	ug/L
P4578-01	WB-305-SW	Water	Iron	436		18.5	50.0	ug/L
P4578-01	WB-305-SW	Water	Magnesium	440000		39.4	1000	ug/L
P4578-01	WB-305-SW	Water	Manganese	70.2		1.46	10.0	ug/L
P4578-01	WB-305-SW	Water	Nickel	3.83	J	0.85	20.0	ug/L
P4578-01	WB-305-SW	Water	Potassium	210000		685	1000	ug/L
P4578-01	WB-305-SW	Water	Sodium	3960000	D	1190	5000	ug/L
P4578-01	WB-305-SW	Water	Zinc	25.0		1.75	20.0	ug/L
Client ID : WB-305-SW-1								
P4578-02	WB-305-SW-1	Water	Aluminum	90.3		28.3	50.0	ug/L
P4578-02	WB-305-SW-1	Water	Barium	30.7	J	6.28	50.0	ug/L
P4578-02	WB-305-SW-1	Water	Calcium	169000		33.0	1000	ug/L
P4578-02	WB-305-SW-1	Water	Chromium	5.82		0.66	5.00	ug/L
P4578-02	WB-305-SW-1	Water	Iron	387		18.5	50.0	ug/L
P4578-02	WB-305-SW-1	Water	Magnesium	432000		39.4	1000	ug/L
P4578-02	WB-305-SW-1	Water	Manganese	67.9		1.46	10.0	ug/L
P4578-02	WB-305-SW-1	Water	Nickel	5.34	J	0.85	20.0	ug/L
P4578-02	WB-305-SW-1	Water	Potassium	200000		685	1000	ug/L
P4578-02	WB-305-SW-1	Water	Sodium	3960000	D	1190	5000	ug/L
P4578-02	WB-305-SW-1	Water	Vanadium	3.63	J	3.06	20.0	ug/L
P4578-02	WB-305-SW-1	Water	Zinc	22.1		1.75	20.0	ug/L
Client ID : WB-305-TOP								
P4578-03	WB-305-TOP	SOIL	Aluminum	8650		4.13	8.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Antimony	0.93	J	0.26	4.28	mg/Kg
P4578-03	WB-305-TOP	SOIL	Arsenic	44.3		0.50	1.71	mg/Kg
P4578-03	WB-305-TOP	SOIL	Barium	103		1.10	8.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Beryllium	0.68		0.021	0.51	mg/Kg
P4578-03	WB-305-TOP	SOIL	Cadmium	3.15		0.027	0.51	mg/Kg
P4578-03	WB-305-TOP	SOIL	Calcium	2590		4.80	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Chromium	135		0.093	0.86	mg/Kg
P4578-03	WB-305-TOP	SOIL	Cobalt	9.42		0.099	2.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Copper	306		0.81	1.71	mg/Kg

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

Hit Summary Sheet
SW-846

SDG No.: P4578 **Order ID:** P4578

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-03	WB-305-TOP	SOIL	Iron	20500		4.61	8.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Lead	261		0.26	1.03	mg/Kg
P4578-03	WB-305-TOP	SOIL	Magnesium	3910		5.88	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Manganese	207		0.12	1.71	mg/Kg
P4578-03	WB-305-TOP	SOIL	Mercury	4.57	D	0.10	0.23	mg/Kg
P4578-03	WB-305-TOP	SOIL	Nickel	44.2		0.15	3.43	mg/Kg
P4578-03	WB-305-TOP	SOIL	Potassium	1530		49.2	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Silver	2.64		0.089	0.86	mg/Kg
P4578-03	WB-305-TOP	SOIL	Sodium	3350		61.8	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Vanadium	23.2		0.46	3.43	mg/Kg
P4578-03	WB-305-TOP	SOIL	Zinc	380		0.19	3.43	mg/Kg
Client ID :	**WB-305-TOP-1**							
P4578-04	WB-305-TOP-1	SOIL	Aluminum	8270		3.91	8.11	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Antimony	1.07	J	0.24	4.06	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Arsenic	71.8		0.47	1.62	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Barium	174		1.04	8.11	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Beryllium	0.64		0.019	0.49	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Cadmium	4.01		0.026	0.49	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Calcium	3120		4.54	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Chromium	215	D	0.44	4.06	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Cobalt	8.93		0.094	2.43	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Copper	432		0.76	1.62	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Iron	19100		4.36	8.11	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Lead	458		0.24	0.97	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Magnesium	3710		5.57	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Manganese	177		0.12	1.62	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Mercury	2.73	D	0.094	0.21	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Nickel	54.9		0.15	3.24	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Potassium	1440		46.6	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Silver	4.34		0.084	0.81	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Sodium	3590		58.6	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Thallium	1.24	J	0.71	3.24	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Vanadium	21.5		0.44	3.24	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Zinc	577		0.18	3.24	mg/Kg
Client ID :	**WB-305-BOT**							
P4578-05	WB-305-BOT	SOIL	Aluminum	3760		2.86	5.94	mg/Kg
P4578-05	WB-305-BOT	SOIL	Antimony	0.18	J	0.18	2.97	mg/Kg
P4578-05	WB-305-BOT	SOIL	Arsenic	1.30		0.35	1.19	mg/Kg
P4578-05	WB-305-BOT	SOIL	Barium	19.3		0.76	5.94	mg/Kg

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

Hit Summary Sheet
SW-846

SDG No.: P4578 **Order ID:** P4578

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-05	WB-305-BOT	SOIL	Beryllium	0.37		0.014	0.36	mg/Kg
P4578-05	WB-305-BOT	SOIL	Cadmium	0.99		0.019	0.36	mg/Kg
P4578-05	WB-305-BOT	SOIL	Calcium	5070		3.33	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Chromium	10.7		0.064	0.59	mg/Kg
P4578-05	WB-305-BOT	SOIL	Cobalt	5.08		0.069	1.78	mg/Kg
P4578-05	WB-305-BOT	SOIL	Copper	11.6		0.56	1.19	mg/Kg
P4578-05	WB-305-BOT	SOIL	Iron	11800		3.20	5.94	mg/Kg
P4578-05	WB-305-BOT	SOIL	Lead	6.90		0.18	0.71	mg/Kg
P4578-05	WB-305-BOT	SOIL	Magnesium	2640		4.08	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Manganese	175		0.084	1.19	mg/Kg
P4578-05	WB-305-BOT	SOIL	Mercury	0.072		0.0060	0.014	mg/Kg
P4578-05	WB-305-BOT	SOIL	Nickel	11.0		0.11	2.38	mg/Kg
P4578-05	WB-305-BOT	SOIL	Potassium	834		34.1	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Silver	0.48	J	0.062	0.59	mg/Kg
P4578-05	WB-305-BOT	SOIL	Sodium	881		42.9	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Vanadium	10.5		0.32	2.38	mg/Kg
P4578-05	WB-305-BOT	SOIL	Zinc	31.0		0.13	2.38	mg/Kg
Client ID :	**WB-305-BOT-1**							
P4578-07	WB-305-BOT-1	SOIL	Aluminum	3510		2.23	4.63	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Arsenic	1.74		0.27	0.93	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Barium	21.0		0.59	4.63	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Beryllium	0.33		0.011	0.28	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Cadmium	0.92		0.015	0.28	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Calcium	3810		2.59	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Chromium	11.7		0.050	0.46	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Cobalt	4.56		0.054	1.39	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Copper	11.5		0.44	0.93	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Iron	9770		2.49	4.63	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Lead	8.83		0.14	0.56	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Magnesium	2040		3.17	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Manganese	114		0.066	0.93	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Mercury	0.036		0.0060	0.014	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Nickel	9.39		0.083	1.85	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Potassium	754		26.6	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Silver	0.38	J	0.048	0.46	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Sodium	773		33.4	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Vanadium	10.1		0.25	1.85	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Zinc	25.6		0.10	1.85	mg/Kg



SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	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	116		1	28.3	50.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-36-0	Antimony	2.72	J	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-39-3	Barium	31.8	J	1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-70-2	Calcium	173000		1	33.0	1000	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-47-3	Chromium	5.67		1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7439-89-6	Iron	436		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7439-95-4	Magnesium	440000		1	39.4	1000	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7439-96-5	Manganese	70.2		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	10/25/24 08:10	10/28/24 12:00	SW7470A	
7440-02-0	Nickel	3.83	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-09-7	Potassium	210000		1	685	1000	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-23-5	Sodium	3960000	D	5	1190	5000	ug/L	10/26/24 09:40	10/29/24 17:49	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010
7440-66-6	Zinc	25.0	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 17:15	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	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	90.3		1	28.3	50.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-39-3	Barium	30.7	J	1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-70-2	Calcium	169000		1	33.0	1000	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-47-3	Chromium	5.82		1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7439-89-6	Iron	387		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7439-95-4	Magnesium	432000		1	39.4	1000	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7439-96-5	Manganese	67.9		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	10/25/24 08:10	10/28/24 12:02	SW7470A	
7440-02-0	Nickel	5.34	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-09-7	Potassium	200000		1	685	1000	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-23-5	Sodium	3960000	D	5	1190	5000	ug/L	10/26/24 09:40	10/29/24 18:02	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-62-2	Vanadium	3.63	J	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010
7440-66-6	Zinc	22.1	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 17:20	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	53.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8650		1	4.13	8.57	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-36-0	Antimony	0.93	J	1	0.26	4.28	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-38-2	Arsenic	44.3		1	0.50	1.71	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-39-3	Barium	103		1	1.10	8.57	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-41-7	Beryllium	0.68	N	1	0.021	0.51	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-43-9	Cadmium	3.15		1	0.027	0.51	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-70-2	Calcium	2590	*	1	4.80	171	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-47-3	Chromium	135		1	0.093	0.86	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-48-4	Cobalt	9.42		1	0.099	2.57	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-50-8	Copper	306		1	0.81	1.71	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7439-89-6	Iron	20500		1	4.61	8.57	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7439-92-1	Lead	261		1	0.26	1.03	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7439-95-4	Magnesium	3910		1	5.88	171	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7439-96-5	Manganese	207		1	0.12	1.71	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7439-97-6	Mercury	4.57	D	10	0.10	0.23	mg/Kg	10/28/24 16:15	10/29/24 11:52	SW7471B	
7440-02-0	Nickel	44.2		1	0.15	3.43	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-09-7	Potassium	1530		1	49.2	171	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7782-49-2	Selenium	0.56	UN	1	0.56	1.71	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-22-4	Silver	2.64		1	0.089	0.86	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-23-5	Sodium	3350		1	61.8	171	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-28-0	Thallium	0.75	U	1	0.75	3.43	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-62-2	Vanadium	23.2		1	0.46	3.43	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050
7440-66-6	Zinc	380		1	0.19	3.43	mg/Kg	10/25/24 16:15	10/28/24 20:35	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	N/A
Comments:	METALS-TAL				

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:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	58.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8270		1	3.91	8.11	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-36-0	Antimony	1.07	J	1	0.24	4.06	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-38-2	Arsenic	71.8		1	0.47	1.62	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-39-3	Barium	174		1	1.04	8.11	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-41-7	Beryllium	0.64	N	1	0.019	0.49	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-43-9	Cadmium	4.01		1	0.026	0.49	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-70-2	Calcium	3120	*	1	4.54	162	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-47-3	Chromium	215	D	5	0.44	4.06	mg/Kg	10/25/24 16:15	11/08/24 14:55	SW6010	SW3050
7440-48-4	Cobalt	8.93		1	0.094	2.43	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-50-8	Copper	432		1	0.76	1.62	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7439-89-6	Iron	19100		1	4.36	8.11	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7439-92-1	Lead	458		1	0.24	0.97	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7439-95-4	Magnesium	3710		1	5.57	162	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7439-96-5	Manganese	177		1	0.12	1.62	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7439-97-6	Mercury	2.73	D	10	0.094	0.21	mg/Kg	10/28/24 16:15	10/29/24 11:55	SW7471B	
7440-02-0	Nickel	54.9		1	0.15	3.24	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-09-7	Potassium	1440		1	46.6	162	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7782-49-2	Selenium	0.54	UN	1	0.54	1.62	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-22-4	Silver	4.34		1	0.084	0.81	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-23-5	Sodium	3590		1	58.6	162	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-28-0	Thallium	1.24	J	1	0.71	3.24	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-62-2	Vanadium	21.5		1	0.44	3.24	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050
7440-66-6	Zinc	577		1	0.18	3.24	mg/Kg	10/25/24 16:15	10/28/24 20:39	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	N/A
Comments:	METALS-TAL				

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:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	82.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3760		1	2.86	5.94	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-36-0	Antimony	0.18	J	1	0.18	2.97	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-38-2	Arsenic	1.30		1	0.35	1.19	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-39-3	Barium	19.3		1	0.76	5.94	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-41-7	Beryllium	0.37	N	1	0.014	0.36	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-43-9	Cadmium	0.99		1	0.019	0.36	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-70-2	Calcium	5070	*	1	3.33	119	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-47-3	Chromium	10.7		1	0.064	0.59	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-48-4	Cobalt	5.08		1	0.069	1.78	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-50-8	Copper	11.6		1	0.56	1.19	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7439-89-6	Iron	11800		1	3.20	5.94	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7439-92-1	Lead	6.90		1	0.18	0.71	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7439-95-4	Magnesium	2640		1	4.08	119	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7439-96-5	Manganese	175		1	0.084	1.19	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7439-97-6	Mercury	0.072		1	0.0060	0.014	mg/Kg	10/28/24 16:15	10/29/24 11:25	SW7471B	
7440-02-0	Nickel	11.0		1	0.11	2.38	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-09-7	Potassium	834		1	34.1	119	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7782-49-2	Selenium	0.39	UN	1	0.39	1.19	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-22-4	Silver	0.48	J	1	0.062	0.59	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-23-5	Sodium	881		1	42.9	119	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-28-0	Thallium	0.52	U	1	0.52	2.38	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-62-2	Vanadium	10.5		1	0.32	2.38	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050
7440-66-6	Zinc	31.0		1	0.13	2.38	mg/Kg	10/25/24 16:15	10/28/24 20:43	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	N/A
Comments:	METALS-TAL				

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:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	94.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3510		1	2.23	4.63	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-36-0	Antimony	0.14	U	1	0.14	2.31	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-38-2	Arsenic	1.74		1	0.27	0.93	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-39-3	Barium	21.0		1	0.59	4.63	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-41-7	Beryllium	0.33	N	1	0.011	0.28	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-43-9	Cadmium	0.92		1	0.015	0.28	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-70-2	Calcium	3810	*	1	2.59	92.5	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-47-3	Chromium	11.7		1	0.050	0.46	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-48-4	Cobalt	4.56		1	0.054	1.39	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-50-8	Copper	11.5		1	0.44	0.93	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7439-89-6	Iron	9770		1	2.49	4.63	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7439-92-1	Lead	8.83		1	0.14	0.56	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7439-95-4	Magnesium	2040		1	3.17	92.5	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7439-96-5	Manganese	114		1	0.066	0.93	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7439-97-6	Mercury	0.036		1	0.0060	0.014	mg/Kg	10/28/24 16:15	10/29/24 11:27	SW7471B	
7440-02-0	Nickel	9.39		1	0.083	1.85	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-09-7	Potassium	754		1	26.6	92.5	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7782-49-2	Selenium	0.31	UN	1	0.31	0.93	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-22-4	Silver	0.38	J	1	0.048	0.46	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-23-5	Sodium	773		1	33.4	92.5	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-28-0	Thallium	0.41	U	1	0.41	1.85	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-62-2	Vanadium	10.1		1	0.25	1.85	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050
7440-66-6	Zinc	25.6		1	0.10	1.85	mg/Kg	10/25/24 16:15	10/28/24 20:47	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	N/A
Comments:	METALS-TAL				

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: **Portal Partners Tri-Venture** **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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
ICV55	Mercury	3.70	4.0	92	90 - 110	CV	10/28/2024	11:09	LB133167

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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
CCV79	Mercury	5.23	5.0	105	90 - 110	CV	10/28/2024	11:16	LB133167
CCV80	Mercury	4.95	5.0	99	90 - 110	CV	10/28/2024	11:48	LB133167
CCV81	Mercury	4.98	5.0	100	90 - 110	CV	10/28/2024	12:09	LB133167

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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
ICV57	Mercury	4.16	4.0	104	90 - 110	CV	10/29/2024	10:32	LB133185

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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
CCV86	Mercury	5.13	5.0	103	90 - 110	CV	10/29/2024	10:36	LB133185
CCV87	Mercury	5.18	5.0	104	90 - 110	CV	10/29/2024	11:04	LB133185
CCV88	Mercury	5.28	5.0	106	90 - 110	CV	10/29/2024	11:32	LB133185
CCV89	Mercury	5.26	5.0	105	90 - 110	CV	10/29/2024	11:57	LB133185

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	2490	2500	100	90 - 110	P	10/28/2024	12:57	LB133175
	Antimony	1020	1000	102	90 - 110	P	10/28/2024	12:57	LB133175
	Arsenic	975	1000	98	90 - 110	P	10/28/2024	12:57	LB133175
	Barium	483	520	93	90 - 110	P	10/28/2024	12:57	LB133175
	Beryllium	490	510	96	90 - 110	P	10/28/2024	12:57	LB133175
	Cadmium	494	510	97	90 - 110	P	10/28/2024	12:57	LB133175
	Calcium	9820	10000	98	90 - 110	P	10/28/2024	12:57	LB133175
	Chromium	532	520	102	90 - 110	P	10/28/2024	12:57	LB133175
	Cobalt	528	520	102	90 - 110	P	10/28/2024	12:57	LB133175
	Copper	497	510	97	90 - 110	P	10/28/2024	12:57	LB133175
	Iron	10100	10000	101	90 - 110	P	10/28/2024	12:57	LB133175
	Lead	983	1000	98	90 - 110	P	10/28/2024	12:57	LB133175
	Magnesium	5750	6000	96	90 - 110	P	10/28/2024	12:57	LB133175
	Manganese	491	520	94	90 - 110	P	10/28/2024	12:57	LB133175
	Nickel	531	530	100	90 - 110	P	10/28/2024	12:57	LB133175
	Potassium	10500	9900	106	90 - 110	P	10/28/2024	12:57	LB133175
	Selenium	1010	1000	101	90 - 110	P	10/28/2024	12:57	LB133175
	Silver	273	250	109	90 - 110	P	10/28/2024	12:57	LB133175
	Sodium	9920	10000	99	90 - 110	P	10/28/2024	12:57	LB133175
	Thallium	970	1000	97	90 - 110	P	10/28/2024	12:57	LB133175
	Vanadium	485	500	97	90 - 110	P	10/28/2024	12:57	LB133175
	Zinc	1100	1000	110	90 - 110	P	10/28/2024	12:57	LB133175

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	107	100	107	80 - 120	P	10/28/2024	13:04	LB133175
	Antimony	50.7	50.0	101	80 - 120	P	10/28/2024	13:04	LB133175
	Arsenic	18.8	20.0	94	80 - 120	P	10/28/2024	13:04	LB133175
	Barium	94.7	100	95	80 - 120	P	10/28/2024	13:04	LB133175
	Beryllium	5.67	6.0	94	80 - 120	P	10/28/2024	13:04	LB133175
	Cadmium	5.66	6.0	94	80 - 120	P	10/28/2024	13:04	LB133175
	Calcium	1960	2000	98	80 - 120	P	10/28/2024	13:04	LB133175
	Chromium	9.20	10.0	92	80 - 120	P	10/28/2024	13:04	LB133175
	Cobalt	29.9	30.0	100	80 - 120	P	10/28/2024	13:04	LB133175
	Copper	21.5	20.0	108	80 - 120	P	10/28/2024	13:04	LB133175
	Iron	107	100	107	80 - 120	P	10/28/2024	13:04	LB133175
	Lead	11.0	12.0	92	80 - 120	P	10/28/2024	13:04	LB133175
	Magnesium	1920	2000	96	80 - 120	P	10/28/2024	13:04	LB133175
	Manganese	19.2	20.0	96	80 - 120	P	10/28/2024	13:04	LB133175
	Nickel	39.8	40.0	100	80 - 120	P	10/28/2024	13:04	LB133175
	Potassium	2020	2000	101	80 - 120	P	10/28/2024	13:04	LB133175
	Selenium	18.6	20.0	93	80 - 120	P	10/28/2024	13:04	LB133175
	Silver	11.3	10.0	113	80 - 120	P	10/28/2024	13:04	LB133175
	Sodium	1850	2000	92	80 - 120	P	10/28/2024	13:04	LB133175
	Thallium	36.2	40.0	90	80 - 120	P	10/28/2024	13:04	LB133175
	Vanadium	38.7	40.0	97	80 - 120	P	10/28/2024	13:04	LB133175
	Zinc	38.8	40.0	97	80 - 120	P	10/28/2024	13:04	LB133175

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	9650	10000	96	90 - 110	P	10/28/2024	13:35	LB133175
	Antimony	4940	5000	99	90 - 110	P	10/28/2024	13:35	LB133175
	Arsenic	4870	5000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Barium	9340	10000	93	90 - 110	P	10/28/2024	13:35	LB133175
	Beryllium	240	250	96	90 - 110	P	10/28/2024	13:35	LB133175
	Cadmium	2430	2500	97	90 - 110	P	10/28/2024	13:35	LB133175
	Calcium	23700	25000	95	90 - 110	P	10/28/2024	13:35	LB133175
	Chromium	969	1000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Cobalt	2420	2500	97	90 - 110	P	10/28/2024	13:35	LB133175
	Copper	1240	1250	99	90 - 110	P	10/28/2024	13:35	LB133175
	Iron	4970	5000	100	90 - 110	P	10/28/2024	13:35	LB133175
	Lead	4840	5000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	13:35	LB133175
	Manganese	2310	2500	92	90 - 110	P	10/28/2024	13:35	LB133175
	Nickel	2430	2500	97	90 - 110	P	10/28/2024	13:35	LB133175
	Potassium	25200	25000	101	90 - 110	P	10/28/2024	13:35	LB133175
	Selenium	4920	5000	98	90 - 110	P	10/28/2024	13:35	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	13:35	LB133175
	Sodium	24700	25000	99	90 - 110	P	10/28/2024	13:35	LB133175
	Thallium	4620	5000	92	90 - 110	P	10/28/2024	13:35	LB133175
	Vanadium	2390	2500	96	90 - 110	P	10/28/2024	13:35	LB133175
	Zinc	2550	2500	102	90 - 110	P	10/28/2024	13:35	LB133175
CCV02	Aluminum	9710	10000	97	90 - 110	P	10/28/2024	14:25	LB133175
	Antimony	4980	5000	100	90 - 110	P	10/28/2024	14:25	LB133175
	Arsenic	4910	5000	98	90 - 110	P	10/28/2024	14:25	LB133175
	Barium	9410	10000	94	90 - 110	P	10/28/2024	14:25	LB133175
	Beryllium	240	250	96	90 - 110	P	10/28/2024	14:25	LB133175
	Cadmium	2440	2500	98	90 - 110	P	10/28/2024	14:25	LB133175
	Calcium	23800	25000	95	90 - 110	P	10/28/2024	14:25	LB133175
	Chromium	959	1000	96	90 - 110	P	10/28/2024	14:25	LB133175
	Cobalt	2430	2500	97	90 - 110	P	10/28/2024	14:25	LB133175
	Copper	1250	1250	100	90 - 110	P	10/28/2024	14:25	LB133175
	Iron	4830	5000	97	90 - 110	P	10/28/2024	14:25	LB133175
	Lead	4860	5000	97	90 - 110	P	10/28/2024	14:25	LB133175

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	23700	25000	95	90 - 110	P	10/28/2024	14:25	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	14:25	LB133175
	Nickel	2440	2500	98	90 - 110	P	10/28/2024	14:25	LB133175
	Potassium	24600	25000	98	90 - 110	P	10/28/2024	14:25	LB133175
	Selenium	4970	5000	100	90 - 110	P	10/28/2024	14:25	LB133175
	Silver	1240	1250	99	90 - 110	P	10/28/2024	14:25	LB133175
	Sodium	24100	25000	96	90 - 110	P	10/28/2024	14:25	LB133175
	Thallium	4740	5000	95	90 - 110	P	10/28/2024	14:25	LB133175
	Vanadium	2400	2500	96	90 - 110	P	10/28/2024	14:25	LB133175
	Zinc	2510	2500	100	90 - 110	P	10/28/2024	14:25	LB133175
CCV03	Aluminum	9970	10000	100	90 - 110	P	10/28/2024	15:15	LB133175
	Antimony	5180	5000	104	90 - 110	P	10/28/2024	15:15	LB133175
	Arsenic	5060	5000	101	90 - 110	P	10/28/2024	15:15	LB133175
	Barium	9730	10000	97	90 - 110	P	10/28/2024	15:15	LB133175
	Beryllium	242	250	97	90 - 110	P	10/28/2024	15:15	LB133175
	Cadmium	2470	2500	99	90 - 110	P	10/28/2024	15:15	LB133175
	Calcium	24000	25000	96	90 - 110	P	10/28/2024	15:15	LB133175
	Chromium	980	1000	98	90 - 110	P	10/28/2024	15:15	LB133175
	Cobalt	2480	2500	99	90 - 110	P	10/28/2024	15:15	LB133175
	Copper	1290	1250	104	90 - 110	P	10/28/2024	15:15	LB133175
	Iron	5000	5000	100	90 - 110	P	10/28/2024	15:15	LB133175
	Lead	4940	5000	99	90 - 110	P	10/28/2024	15:15	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	15:15	LB133175
	Manganese	2350	2500	94	90 - 110	P	10/28/2024	15:15	LB133175
	Nickel	2490	2500	100	90 - 110	P	10/28/2024	15:15	LB133175
	Potassium	26000	25000	104	90 - 110	P	10/28/2024	15:15	LB133175
	Selenium	5150	5000	103	90 - 110	P	10/28/2024	15:15	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	15:15	LB133175
	Sodium	25500	25000	102	90 - 110	P	10/28/2024	15:15	LB133175
	Thallium	4680	5000	94	90 - 110	P	10/28/2024	15:15	LB133175
	Vanadium	2450	2500	98	90 - 110	P	10/28/2024	15:15	LB133175
	Zinc	2600	2500	104	90 - 110	P	10/28/2024	15:15	LB133175
CCV04	Aluminum	9820	10000	98	90 - 110	P	10/28/2024	16:06	LB133175
	Antimony	5100	5000	102	90 - 110	P	10/28/2024	16:06	LB133175

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	5020	5000	100	90 - 110	P	10/28/2024	16:06	LB133175
	Barium	9800	10000	98	90 - 110	P	10/28/2024	16:06	LB133175
	Beryllium	239	250	96	90 - 110	P	10/28/2024	16:06	LB133175
	Cadmium	2440	2500	98	90 - 110	P	10/28/2024	16:06	LB133175
	Calcium	23800	25000	95	90 - 110	P	10/28/2024	16:06	LB133175
	Chromium	974	1000	97	90 - 110	P	10/28/2024	16:06	LB133175
	Cobalt	2450	2500	98	90 - 110	P	10/28/2024	16:06	LB133175
	Copper	1270	1250	102	90 - 110	P	10/28/2024	16:06	LB133175
	Iron	4960	5000	99	90 - 110	P	10/28/2024	16:06	LB133175
	Lead	4870	5000	97	90 - 110	P	10/28/2024	16:06	LB133175
	Magnesium	23500	25000	94	90 - 110	P	10/28/2024	16:06	LB133175
	Manganese	2330	2500	93	90 - 110	P	10/28/2024	16:06	LB133175
	Nickel	2460	2500	98	90 - 110	P	10/28/2024	16:06	LB133175
	Potassium	25900	25000	104	90 - 110	P	10/28/2024	16:06	LB133175
	Selenium	5100	5000	102	90 - 110	P	10/28/2024	16:06	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	16:06	LB133175
	Sodium	25500	25000	102	90 - 110	P	10/28/2024	16:06	LB133175
	Thallium	4910	5000	98	90 - 110	P	10/28/2024	16:06	LB133175
	Vanadium	2410	2500	97	90 - 110	P	10/28/2024	16:06	LB133175
	Zinc	2560	2500	102	90 - 110	P	10/28/2024	16:06	LB133175
CCV05	Aluminum	10000	10000	100	90 - 110	P	10/28/2024	16:57	LB133175
	Antimony	5310	5000	106	90 - 110	P	10/28/2024	16:57	LB133175
	Arsenic	5210	5000	104	90 - 110	P	10/28/2024	16:57	LB133175
	Barium	9800	10000	98	90 - 110	P	10/28/2024	16:57	LB133175
	Beryllium	241	250	96	90 - 110	P	10/28/2024	16:57	LB133175
	Cadmium	2490	2500	100	90 - 110	P	10/28/2024	16:57	LB133175
	Calcium	23900	25000	96	90 - 110	P	10/28/2024	16:57	LB133175
	Chromium	965	1000	96	90 - 110	P	10/28/2024	16:57	LB133175
	Cobalt	2490	2500	100	90 - 110	P	10/28/2024	16:57	LB133175
	Copper	1310	1250	105	90 - 110	P	10/28/2024	16:57	LB133175
	Iron	4900	5000	98	90 - 110	P	10/28/2024	16:57	LB133175
	Lead	4990	5000	100	90 - 110	P	10/28/2024	16:57	LB133175
	Magnesium	23700	25000	95	90 - 110	P	10/28/2024	16:57	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	16:57	LB133175

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	2500	2500	100	90 - 110	P	10/28/2024	16:57	LB133175
	Potassium	26200	25000	105	90 - 110	P	10/28/2024	16:57	LB133175
	Selenium	5400	5000	108	90 - 110	P	10/28/2024	16:57	LB133175
	Silver	1280	1250	102	90 - 110	P	10/28/2024	16:57	LB133175
	Sodium	25700	25000	103	90 - 110	P	10/28/2024	16:57	LB133175
	Thallium	5470	5000	109	90 - 110	P	10/28/2024	16:57	LB133175
	Vanadium	2420	2500	97	90 - 110	P	10/28/2024	16:57	LB133175
	Zinc	2610	2500	104	90 - 110	P	10/28/2024	16:57	LB133175
CCV06	Aluminum	9870	10000	99	90 - 110	P	10/28/2024	17:50	LB133175
	Antimony	5170	5000	103	90 - 110	P	10/28/2024	17:50	LB133175
	Arsenic	5080	5000	102	90 - 110	P	10/28/2024	17:50	LB133175
	Barium	9780	10000	98	90 - 110	P	10/28/2024	17:50	LB133175
	Beryllium	245	250	98	90 - 110	P	10/28/2024	17:50	LB133175
	Cadmium	2490	2500	100	90 - 110	P	10/28/2024	17:50	LB133175
	Calcium	24000	25000	96	90 - 110	P	10/28/2024	17:50	LB133175
	Chromium	973	1000	97	90 - 110	P	10/28/2024	17:50	LB133175
	Cobalt	2480	2500	99	90 - 110	P	10/28/2024	17:50	LB133175
	Copper	1290	1250	103	90 - 110	P	10/28/2024	17:50	LB133175
	Iron	4880	5000	98	90 - 110	P	10/28/2024	17:50	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	17:50	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	17:50	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	17:50	LB133175
	Nickel	2490	2500	100	90 - 110	P	10/28/2024	17:50	LB133175
	Potassium	25600	25000	103	90 - 110	P	10/28/2024	17:50	LB133175
	Selenium	5210	5000	104	90 - 110	P	10/28/2024	17:50	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	17:50	LB133175
	Sodium	24900	25000	99	90 - 110	P	10/28/2024	17:50	LB133175
	Thallium	5370	5000	107	90 - 110	P	10/28/2024	17:50	LB133175
	Vanadium	2410	2500	96	90 - 110	P	10/28/2024	17:50	LB133175
	Zinc	2580	2500	103	90 - 110	P	10/28/2024	17:50	LB133175
CCV07	Aluminum	9960	10000	100	90 - 110	P	10/28/2024	18:43	LB133175
	Antimony	5210	5000	104	90 - 110	P	10/28/2024	18:43	LB133175
	Arsenic	5110	5000	102	90 - 110	P	10/28/2024	18:43	LB133175
	Barium	9750	10000	98	90 - 110	P	10/28/2024	18:43	LB133175

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	243	250	97	90 - 110	P	10/28/2024	18:43	LB133175
	Cadmium	2480	2500	99	90 - 110	P	10/28/2024	18:43	LB133175
	Calcium	24000	25000	96	90 - 110	P	10/28/2024	18:43	LB133175
	Chromium	966	1000	97	90 - 110	P	10/28/2024	18:43	LB133175
	Cobalt	2490	2500	100	90 - 110	P	10/28/2024	18:43	LB133175
	Copper	1290	1250	103	90 - 110	P	10/28/2024	18:43	LB133175
	Iron	4820	5000	96	90 - 110	P	10/28/2024	18:43	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	18:43	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	18:43	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	18:43	LB133175
	Nickel	2490	2500	100	90 - 110	P	10/28/2024	18:43	LB133175
	Potassium	25600	25000	102	90 - 110	P	10/28/2024	18:43	LB133175
	Selenium	5270	5000	106	90 - 110	P	10/28/2024	18:43	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	18:43	LB133175
	Sodium	24200	25000	97	90 - 110	P	10/28/2024	18:43	LB133175
	Thallium	5500	5000	110	90 - 110	P	10/28/2024	18:43	LB133175
	Vanadium	2420	2500	97	90 - 110	P	10/28/2024	18:43	LB133175
	Zinc	2570	2500	103	90 - 110	P	10/28/2024	18:43	LB133175
CCV08	Aluminum	10300	10000	103	90 - 110	P	10/28/2024	19:33	LB133175
	Antimony	5400	5000	108	90 - 110	P	10/28/2024	19:33	LB133175
	Arsenic	5290	5000	106	90 - 110	P	10/28/2024	19:33	LB133175
	Barium	10000	10000	100	90 - 110	P	10/28/2024	19:33	LB133175
	Beryllium	251	250	100	90 - 110	P	10/28/2024	19:33	LB133175
	Cadmium	2570	2500	103	90 - 110	P	10/28/2024	19:33	LB133175
	Calcium	24700	25000	99	90 - 110	P	10/28/2024	19:33	LB133175
	Chromium	989	1000	99	90 - 110	P	10/28/2024	19:33	LB133175
	Cobalt	2570	2500	103	90 - 110	P	10/28/2024	19:33	LB133175
	Copper	1340	1250	107	90 - 110	P	10/28/2024	19:33	LB133175
	Iron	5020	5000	100	90 - 110	P	10/28/2024	19:33	LB133175
	Lead	5130	5000	103	90 - 110	P	10/28/2024	19:33	LB133175
	Magnesium	24500	25000	98	90 - 110	P	10/28/2024	19:33	LB133175
	Manganese	2360	2500	94	90 - 110	P	10/28/2024	19:33	LB133175
	Nickel	2580	2500	103	90 - 110	P	10/28/2024	19:33	LB133175
	Potassium	26700	25000	107	90 - 110	P	10/28/2024	19:33	LB133175

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	5470	5000	110	90 - 110	P	10/28/2024	19:33	LB133175
	Silver	1310	1250	105	90 - 110	P	10/28/2024	19:33	LB133175
	Sodium	25700	25000	103	90 - 110	P	10/28/2024	19:33	LB133175
	Thallium	5470	5000	109	90 - 110	P	10/28/2024	19:33	LB133175
	Vanadium	2500	2500	100	90 - 110	P	10/28/2024	19:33	LB133175
	Zinc	2680	2500	107	90 - 110	P	10/28/2024	19:33	LB133175
CCV09	Aluminum	10100	10000	101	90 - 110	P	10/28/2024	20:22	LB133175
	Antimony	5270	5000	105	90 - 110	P	10/28/2024	20:22	LB133175
	Arsenic	5200	5000	104	90 - 110	P	10/28/2024	20:22	LB133175
	Barium	9830	10000	98	90 - 110	P	10/28/2024	20:22	LB133175
	Beryllium	249	250	100	90 - 110	P	10/28/2024	20:22	LB133175
	Cadmium	2530	2500	101	90 - 110	P	10/28/2024	20:22	LB133175
	Calcium	24400	25000	97	90 - 110	P	10/28/2024	20:22	LB133175
	Chromium	975	1000	98	90 - 110	P	10/28/2024	20:22	LB133175
	Cobalt	2520	2500	101	90 - 110	P	10/28/2024	20:22	LB133175
	Copper	1310	1250	105	90 - 110	P	10/28/2024	20:22	LB133175
	Iron	4930	5000	99	90 - 110	P	10/28/2024	20:22	LB133175
	Lead	5040	5000	101	90 - 110	P	10/28/2024	20:22	LB133175
	Magnesium	24100	25000	96	90 - 110	P	10/28/2024	20:22	LB133175
	Manganese	2330	2500	93	90 - 110	P	10/28/2024	20:22	LB133175
	Nickel	2530	2500	101	90 - 110	P	10/28/2024	20:22	LB133175
	Potassium	26200	25000	105	90 - 110	P	10/28/2024	20:22	LB133175
	Selenium	5360	5000	107	90 - 110	P	10/28/2024	20:22	LB133175
	Silver	1290	1250	103	90 - 110	P	10/28/2024	20:22	LB133175
	Sodium	25500	25000	102	90 - 110	P	10/28/2024	20:22	LB133175
	Thallium	5490	5000	110	90 - 110	P	10/28/2024	20:22	LB133175
	Vanadium	2440	2500	98	90 - 110	P	10/28/2024	20:22	LB133175
	Zinc	2620	2500	105	90 - 110	P	10/28/2024	20:22	LB133175
CCV10	Aluminum	10000	10000	100	90 - 110	P	10/28/2024	21:21	LB133175
	Antimony	5270	5000	106	90 - 110	P	10/28/2024	21:21	LB133175
	Arsenic	5180	5000	104	90 - 110	P	10/28/2024	21:21	LB133175
	Barium	9840	10000	98	90 - 110	P	10/28/2024	21:21	LB133175
	Beryllium	242	250	97	90 - 110	P	10/28/2024	21:21	LB133175
	Cadmium	2500	2500	100	90 - 110	P	10/28/2024	21:21	LB133175

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	23900	25000	96	90 - 110	P	10/28/2024	21:21	LB133175
	Chromium	967	1000	97	90 - 110	P	10/28/2024	21:21	LB133175
	Cobalt	2500	2500	100	90 - 110	P	10/28/2024	21:21	LB133175
	Copper	1300	1250	104	90 - 110	P	10/28/2024	21:21	LB133175
	Iron	4860	5000	97	90 - 110	P	10/28/2024	21:21	LB133175
	Lead	4980	5000	100	90 - 110	P	10/28/2024	21:21	LB133175
	Magnesium	23600	25000	94	90 - 110	P	10/28/2024	21:21	LB133175
	Manganese	2310	2500	92	90 - 110	P	10/28/2024	21:21	LB133175
	Nickel	2500	2500	100	90 - 110	P	10/28/2024	21:21	LB133175
	Potassium	26300	25000	105	90 - 110	P	10/28/2024	21:21	LB133175
	Selenium	5330	5000	107	90 - 110	P	10/28/2024	21:21	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	21:21	LB133175
	Sodium	25700	25000	103	90 - 110	P	10/28/2024	21:21	LB133175
	Thallium	5330	5000	106	90 - 110	P	10/28/2024	21:21	LB133175
	Vanadium	2420	2500	97	90 - 110	P	10/28/2024	21:21	LB133175
	Zinc	2600	2500	104	90 - 110	P	10/28/2024	21:21	LB133175
CCV11	Aluminum	10100	10000	101	90 - 110	P	10/28/2024	21:38	LB133175
	Antimony	5340	5000	107	90 - 110	P	10/28/2024	21:38	LB133175
	Arsenic	5220	5000	104	90 - 110	P	10/28/2024	21:38	LB133175
	Barium	10100	10000	101	90 - 110	P	10/28/2024	21:38	LB133175
	Beryllium	244	250	98	90 - 110	P	10/28/2024	21:38	LB133175
	Cadmium	2480	2500	99	90 - 110	P	10/28/2024	21:38	LB133175
	Calcium	23800	25000	95	90 - 110	P	10/28/2024	21:38	LB133175
	Chromium	970	1000	97	90 - 110	P	10/28/2024	21:38	LB133175
	Cobalt	2490	2500	100	90 - 110	P	10/28/2024	21:38	LB133175
	Copper	1320	1250	106	90 - 110	P	10/28/2024	21:38	LB133175
	Iron	4970	5000	100	90 - 110	P	10/28/2024	21:38	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	21:38	LB133175
	Magnesium	23600	25000	94	90 - 110	P	10/28/2024	21:38	LB133175
	Manganese	2330	2500	93	90 - 110	P	10/28/2024	21:38	LB133175
	Nickel	2500	2500	100	90 - 110	P	10/28/2024	21:38	LB133175
	Potassium	27300	25000	109	90 - 110	P	10/28/2024	21:38	LB133175
	Selenium	5380	5000	108	90 - 110	P	10/28/2024	21:38	LB133175
	Silver	1290	1250	103	90 - 110	P	10/28/2024	21:38	LB133175

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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
CCV11	Sodium	25900	25000	104	90 - 110	P	10/28/2024	21:38	LB133175
	Thallium	5170	5000	103	90 - 110	P	10/28/2024	21:38	LB133175
	Vanadium	2440	2500	98	90 - 110	P	10/28/2024	21:38	LB133175
	Zinc	2540	2500	102	90 - 110	P	10/28/2024	21:38	LB133175

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	2360	2500	94	90 - 110	P	10/29/2024	11:59	LB133198
	Antimony	982	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Arsenic	950	1000	95	90 - 110	P	10/29/2024	11:59	LB133198
	Barium	474	520	91	90 - 110	P	10/29/2024	11:59	LB133198
	Beryllium	470	510	92	90 - 110	P	10/29/2024	11:59	LB133198
	Cadmium	478	510	94	90 - 110	P	10/29/2024	11:59	LB133198
	Calcium	9360	10000	94	90 - 110	P	10/29/2024	11:59	LB133198
	Chromium	533	520	102	90 - 110	P	10/29/2024	11:59	LB133198
	Cobalt	511	520	98	90 - 110	P	10/29/2024	11:59	LB133198
	Copper	525	510	103	90 - 110	P	10/29/2024	11:59	LB133198
	Iron	10300	10000	102	90 - 110	P	10/29/2024	11:59	LB133198
	Lead	958	1000	96	90 - 110	P	10/29/2024	11:59	LB133198
	Magnesium	5490	6000	91	90 - 110	P	10/29/2024	11:59	LB133198
	Manganese	478	520	92	90 - 110	P	10/29/2024	11:59	LB133198
	Nickel	514	530	97	90 - 110	P	10/29/2024	11:59	LB133198
	Potassium	10200	9900	103	90 - 110	P	10/29/2024	11:59	LB133198
	Selenium	979	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Silver	260	250	104	90 - 110	P	10/29/2024	11:59	LB133198
	Sodium	9770	10000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Thallium	1000	1000	100	90 - 110	P	10/29/2024	11:59	LB133198
	Vanadium	461	500	92	90 - 110	P	10/29/2024	11:59	LB133198
	Zinc	1040	1000	104	90 - 110	P	10/29/2024	11:59	LB133198

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	98.6	100	99	80 - 120	P	10/29/2024	12:31	LB133198
	Antimony	50.1	50.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Arsenic	19.0	20.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Barium	94.2	100	94	80 - 120	P	10/29/2024	12:31	LB133198
	Beryllium	5.69	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Cadmium	5.68	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Calcium	1950	2000	98	80 - 120	P	10/29/2024	12:31	LB133198
	Chromium	10.2	10.0	102	80 - 120	P	10/29/2024	12:31	LB133198
	Cobalt	30.2	30.0	101	80 - 120	P	10/29/2024	12:31	LB133198
	Copper	21.7	20.0	108	80 - 120	P	10/29/2024	12:31	LB133198
	Iron	105	100	105	80 - 120	P	10/29/2024	12:31	LB133198
	Lead	9.73	12.0	81	80 - 120	P	10/29/2024	12:31	LB133198
	Magnesium	1930	2000	97	80 - 120	P	10/29/2024	12:31	LB133198
	Manganese	19.6	20.0	98	80 - 120	P	10/29/2024	12:31	LB133198
	Nickel	40.0	40.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Potassium	1890	2000	95	80 - 120	P	10/29/2024	12:31	LB133198
	Selenium	20.1	20.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Silver	11.2	10.0	112	80 - 120	P	10/29/2024	12:31	LB133198
	Sodium	1800	2000	90	80 - 120	P	10/29/2024	12:31	LB133198
	Thallium	36.2	40.0	91	80 - 120	P	10/29/2024	12:31	LB133198
	Vanadium	37.8	40.0	94	80 - 120	P	10/29/2024	12:31	LB133198
	Zinc	38.9	40.0	97	80 - 120	P	10/29/2024	12:31	LB133198

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	9640	10000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Antimony	4940	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Arsenic	4910	5000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Barium	9460	10000	95	90 - 110	P	10/29/2024	13:01	LB133198
	Beryllium	238	250	95	90 - 110	P	10/29/2024	13:01	LB133198
	Cadmium	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Calcium	23700	25000	95	90 - 110	P	10/29/2024	13:01	LB133198
	Chromium	994	1000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Cobalt	2440	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Copper	1250	1250	100	90 - 110	P	10/29/2024	13:01	LB133198
	Iron	4810	5000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Lead	4870	5000	97	90 - 110	P	10/29/2024	13:01	LB133198
	Magnesium	23600	25000	94	90 - 110	P	10/29/2024	13:01	LB133198
	Manganese	2320	2500	93	90 - 110	P	10/29/2024	13:01	LB133198
	Nickel	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Potassium	24500	25000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Selenium	4950	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	13:01	LB133198
	Sodium	24100	25000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Thallium	4690	5000	94	90 - 110	P	10/29/2024	13:01	LB133198
	Vanadium	2390	2500	96	90 - 110	P	10/29/2024	13:01	LB133198
	Zinc	2510	2500	100	90 - 110	P	10/29/2024	13:01	LB133198
CCV02	Aluminum	10800	10000	108	90 - 110	P	10/29/2024	14:04	LB133198
	Antimony	4810	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Arsenic	4780	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Barium	9090	10000	91	90 - 110	P	10/29/2024	14:04	LB133198
	Beryllium	241	250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Cadmium	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Calcium	26400	25000	105	90 - 110	P	10/29/2024	14:04	LB133198
	Chromium	946	1000	95	90 - 110	P	10/29/2024	14:04	LB133198
	Cobalt	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Copper	1200	1250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Iron	4590	5000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Lead	4670	5000	93	90 - 110	P	10/29/2024	14:04	LB133198

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	25000	25000	100	90 - 110	P	10/29/2024	14:04	LB133198
	Manganese	2560	2500	103	90 - 110	P	10/29/2024	14:04	LB133198
	Nickel	2340	2500	94	90 - 110	P	10/29/2024	14:04	LB133198
	Potassium	23600	25000	94	90 - 110	P	10/29/2024	14:04	LB133198
	Selenium	4870	5000	97	90 - 110	P	10/29/2024	14:04	LB133198
	Silver	1170	1250	94	90 - 110	P	10/29/2024	14:04	LB133198
	Sodium	23000	25000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Thallium	5060	5000	101	90 - 110	P	10/29/2024	14:04	LB133198
	Vanadium	2260	2500	90	90 - 110	P	10/29/2024	14:04	LB133198
	Zinc	2390	2500	96	90 - 110	P	10/29/2024	14:04	LB133198
CCV03	Aluminum	10300	10000	103	90 - 110	P	10/29/2024	15:02	LB133198
	Antimony	5010	5000	100	90 - 110	P	10/29/2024	15:02	LB133198
	Arsenic	5490	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Barium	10400	10000	104	90 - 110	P	10/29/2024	15:02	LB133198
	Beryllium	235	250	94	90 - 110	P	10/29/2024	15:02	LB133198
	Cadmium	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Calcium	25400	25000	102	90 - 110	P	10/29/2024	15:02	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:02	LB133198
	Cobalt	2520	2500	101	90 - 110	P	10/29/2024	15:02	LB133198
	Copper	1130	1250	90	90 - 110	P	10/29/2024	15:02	LB133198
	Iron	5480	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Lead	4700	5000	94	90 - 110	P	10/29/2024	15:02	LB133198
	Magnesium	24000	25000	96	90 - 110	P	10/29/2024	15:02	LB133198
	Manganese	2450	2500	98	90 - 110	P	10/29/2024	15:02	LB133198
	Nickel	2580	2500	103	90 - 110	P	10/29/2024	15:02	LB133198
	Potassium	26900	25000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Selenium	4530	5000	91	90 - 110	P	10/29/2024	15:02	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	15:02	LB133198
	Sodium	23300	25000	93	90 - 110	P	10/29/2024	15:02	LB133198
	Thallium	5410	5000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Vanadium	2650	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Zinc	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
CCV04	Aluminum	10200	10000	102	90 - 110	P	10/29/2024	15:59	LB133198
	Antimony	4760	5000	95	90 - 110	P	10/29/2024	15:59	LB133198

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	5440	5000	109	90 - 110	P	10/29/2024	15:59	LB133198
	Barium	10300	10000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Beryllium	225	250	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cadmium	2640	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Calcium	25800	25000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cobalt	2480	2500	99	90 - 110	P	10/29/2024	15:59	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	15:59	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	15:59	LB133198
	Lead	4620	5000	92	90 - 110	P	10/29/2024	15:59	LB133198
	Magnesium	24400	25000	98	90 - 110	P	10/29/2024	15:59	LB133198
	Manganese	2490	2500	100	90 - 110	P	10/29/2024	15:59	LB133198
	Nickel	2540	2500	102	90 - 110	P	10/29/2024	15:59	LB133198
	Potassium	25700	25000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Selenium	4680	5000	94	90 - 110	P	10/29/2024	15:59	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	15:59	LB133198
	Sodium	22600	25000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Thallium	4990	5000	100	90 - 110	P	10/29/2024	15:59	LB133198
	Vanadium	2660	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Zinc	2610	2500	104	90 - 110	P	10/29/2024	15:59	LB133198
CCV05	Aluminum	10400	10000	104	90 - 110	P	10/29/2024	16:53	LB133198
	Antimony	4760	5000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Arsenic	5450	5000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Beryllium	231	250	92	90 - 110	P	10/29/2024	16:53	LB133198
	Cadmium	2630	2500	105	90 - 110	P	10/29/2024	16:53	LB133198
	Calcium	26400	25000	105	90 - 110	P	10/29/2024	16:53	LB133198
	Chromium	928	1000	93	90 - 110	P	10/29/2024	16:53	LB133198
	Cobalt	2470	2500	99	90 - 110	P	10/29/2024	16:53	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	16:53	LB133198
	Iron	5380	5000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Lead	4590	5000	92	90 - 110	P	10/29/2024	16:53	LB133198
	Magnesium	24800	25000	99	90 - 110	P	10/29/2024	16:53	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	16:53	LB133198

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	2530	2500	101	90 - 110	P	10/29/2024	16:53	LB133198
	Potassium	27200	25000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Selenium	4690	5000	94	90 - 110	P	10/29/2024	16:53	LB133198
	Silver	1140	1250	91	90 - 110	P	10/29/2024	16:53	LB133198
	Sodium	23800	25000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Thallium	5020	5000	100	90 - 110	P	10/29/2024	16:53	LB133198
	Vanadium	2710	2500	109	90 - 110	P	10/29/2024	16:53	LB133198
	Zinc	2280	2500	91	90 - 110	P	10/29/2024	16:53	LB133198
CCV06	Aluminum	9860	10000	99	90 - 110	P	10/29/2024	17:53	LB133198
	Antimony	4670	5000	93	90 - 110	P	10/29/2024	17:53	LB133198
	Arsenic	5370	5000	107	90 - 110	P	10/29/2024	17:53	LB133198
	Barium	10600	10000	106	90 - 110	P	10/29/2024	17:53	LB133198
	Beryllium	245	250	98	90 - 110	P	10/29/2024	17:53	LB133198
	Cadmium	2600	2500	104	90 - 110	P	10/29/2024	17:53	LB133198
	Calcium	25100	25000	100	90 - 110	P	10/29/2024	17:53	LB133198
	Chromium	915	1000	92	90 - 110	P	10/29/2024	17:53	LB133198
	Cobalt	2430	2500	97	90 - 110	P	10/29/2024	17:53	LB133198
	Copper	1200	1250	96	90 - 110	P	10/29/2024	17:53	LB133198
	Iron	5130	5000	103	90 - 110	P	10/29/2024	17:53	LB133198
	Lead	4570	5000	91	90 - 110	P	10/29/2024	17:53	LB133198
	Magnesium	24200	25000	97	90 - 110	P	10/29/2024	17:53	LB133198
	Manganese	2400	2500	96	90 - 110	P	10/29/2024	17:53	LB133198
	Nickel	2490	2500	100	90 - 110	P	10/29/2024	17:53	LB133198
	Potassium	24700	25000	99	90 - 110	P	10/29/2024	17:53	LB133198
	Selenium	4700	5000	94	90 - 110	P	10/29/2024	17:53	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	17:53	LB133198
	Sodium	24000	25000	96	90 - 110	P	10/29/2024	17:53	LB133198
	Thallium	5450	5000	109	90 - 110	P	10/29/2024	17:53	LB133198
	Vanadium	2570	2500	103	90 - 110	P	10/29/2024	17:53	LB133198
	Zinc	2670	2500	107	90 - 110	P	10/29/2024	17:53	LB133198
CCV07	Aluminum	10400	10000	104	90 - 110	P	10/29/2024	18:20	LB133198
	Antimony	4930	5000	99	90 - 110	P	10/29/2024	18:20	LB133198
	Arsenic	5470	5000	109	90 - 110	P	10/29/2024	18:20	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	18:20	LB133198

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	235	250	94	90 - 110	P	10/29/2024	18:20	LB133198
	Cadmium	2320	2500	93	90 - 110	P	10/29/2024	18:20	LB133198
	Calcium	26400	25000	105	90 - 110	P	10/29/2024	18:20	LB133198
	Chromium	933	1000	93	90 - 110	P	10/29/2024	18:20	LB133198
	Cobalt	2280	2500	91	90 - 110	P	10/29/2024	18:20	LB133198
	Copper	1270	1250	102	90 - 110	P	10/29/2024	18:20	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Lead	4600	5000	92	90 - 110	P	10/29/2024	18:20	LB133198
	Magnesium	25200	25000	101	90 - 110	P	10/29/2024	18:20	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	18:20	LB133198
	Nickel	2290	2500	92	90 - 110	P	10/29/2024	18:20	LB133198
	Potassium	26200	25000	105	90 - 110	P	10/29/2024	18:20	LB133198
	Selenium	5390	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Silver	1130	1250	91	90 - 110	P	10/29/2024	18:20	LB133198
	Sodium	22500	25000	90	90 - 110	P	10/29/2024	18:20	LB133198
	Thallium	4880	5000	98	90 - 110	P	10/29/2024	18:20	LB133198
	Vanadium	2690	2500	108	90 - 110	P	10/29/2024	18:20	LB133198
	Zinc	2260	2500	90	90 - 110	P	10/29/2024	18:20	LB133198

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	2550	2500	102	90 - 110	P	11/08/2024	13:59	LB133365
	Antimony	979	1000	98	90 - 110	P	11/08/2024	13:59	LB133365
	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
	Beryllium	511	510	100	90 - 110	P	11/08/2024	13:59	LB133365
	Cadmium	497	510	97	90 - 110	P	11/08/2024	13:59	LB133365
	Calcium	10100	10000	101	90 - 110	P	11/08/2024	13:59	LB133365
	Chromium	514	520	99	90 - 110	P	11/08/2024	13:59	LB133365
	Cobalt	506	520	97	90 - 110	P	11/08/2024	13:59	LB133365
	Copper	521	510	102	90 - 110	P	11/08/2024	13:59	LB133365
	Iron	9660	10000	97	90 - 110	P	11/08/2024	13:59	LB133365
	Lead	999	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Magnesium	5940	6000	99	90 - 110	P	11/08/2024	13:59	LB133365
	Manganese	519	520	100	90 - 110	P	11/08/2024	13:59	LB133365
	Nickel	509	530	96	90 - 110	P	11/08/2024	13:59	LB133365
	Potassium	9550	9900	96	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
	Sodium	9170	10000	92	90 - 110	P	11/08/2024	13:59	LB133365
	Thallium	975	1000	98	90 - 110	P	11/08/2024	13:59	LB133365
	Vanadium	496	500	99	90 - 110	P	11/08/2024	13:59	LB133365
	Zinc	1030	1000	103	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	109	100	109	80 - 120	P	11/08/2024	14:11	LB133365
	Antimony	48.4	50.0	97	80 - 120	P	11/08/2024	14:11	LB133365
	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
	Beryllium	5.66	6.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Cadmium	6.34	6.0	106	80 - 120	P	11/08/2024	14:11	LB133365
	Calcium	1970	2000	98	80 - 120	P	11/08/2024	14:11	LB133365
	Chromium	9.48	10.0	95	80 - 120	P	11/08/2024	14:11	LB133365
	Cobalt	28.3	30.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Copper	22.8	20.0	114	80 - 120	P	11/08/2024	14:11	LB133365
	Iron	93.6	100	94	80 - 120	P	11/08/2024	14:11	LB133365
	Lead	11.8	12.0	99	80 - 120	P	11/08/2024	14:11	LB133365
	Magnesium	1950	2000	98	80 - 120	P	11/08/2024	14:11	LB133365
	Manganese	19.8	20.0	99	80 - 120	P	11/08/2024	14:11	LB133365
	Nickel	37.8	40.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Potassium	1870	2000	94	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
	Sodium	1630	2000	82	80 - 120	P	11/08/2024	14:11	LB133365
	Thallium	37.6	40.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Vanadium	38.6	40.0	96	80 - 120	P	11/08/2024	14:11	LB133365
	Zinc	42.1	40.0	105	80 - 120	P	11/08/2024	14:11	LB133365

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	9960	10000	100	90 - 110	P	11/08/2024	14:44	LB133365
	Antimony	5040	5000	101	90 - 110	P	11/08/2024	14:44	LB133365
	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
	Beryllium	241	250	96	90 - 110	P	11/08/2024	14:44	LB133365
	Cadmium	2390	2500	96	90 - 110	P	11/08/2024	14:44	LB133365
	Calcium	24100	25000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Chromium	1050	1000	105	90 - 110	P	11/08/2024	14:44	LB133365
	Cobalt	2420	2500	97	90 - 110	P	11/08/2024	14:44	LB133365
	Copper	1260	1250	101	90 - 110	P	11/08/2024	14:44	LB133365
	Iron	4850	5000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Lead	4870	5000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Magnesium	24200	25000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Manganese	2370	2500	95	90 - 110	P	11/08/2024	14:44	LB133365
	Nickel	2440	2500	97	90 - 110	P	11/08/2024	14:44	LB133365
	Potassium	24600	25000	98	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
	Sodium	24300	25000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Thallium	4770	5000	95	90 - 110	P	11/08/2024	14:44	LB133365
	Vanadium	2450	2500	98	90 - 110	P	11/08/2024	14:44	LB133365
	Zinc	2530	2500	101	90 - 110	P	11/08/2024	14:44	LB133365
CCV02	Aluminum	9830	10000	98	90 - 110	P	11/08/2024	15:29	LB133365
	Antimony	5060	5000	101	90 - 110	P	11/08/2024	15:29	LB133365
	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
	Beryllium	231	250	92	90 - 110	P	11/08/2024	15:29	LB133365
	Cadmium	2360	2500	94	90 - 110	P	11/08/2024	15:29	LB133365
	Calcium	23300	25000	93	90 - 110	P	11/08/2024	15:29	LB133365
	Chromium	918	1000	92	90 - 110	P	11/08/2024	15:29	LB133365
	Cobalt	2390	2500	96	90 - 110	P	11/08/2024	15:29	LB133365
	Copper	1260	1250	101	90 - 110	P	11/08/2024	15:29	LB133365
	Iron	4780	5000	96	90 - 110	P	11/08/2024	15:29	LB133365
	Lead	4800	5000	96	90 - 110	P	11/08/2024	15:29	LB133365

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	23400	25000	94	90 - 110	P	11/08/2024	15:29	LB133365
	Manganese	2280	2500	91	90 - 110	P	11/08/2024	15:29	LB133365
	Nickel	2390	2500	96	90 - 110	P	11/08/2024	15:29	LB133365
	Potassium	25100	25000	100	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
	Sodium	24500	25000	98	90 - 110	P	11/08/2024	15:29	LB133365
	Thallium	5010	5000	100	90 - 110	P	11/08/2024	15:29	LB133365
	Vanadium	2390	2500	96	90 - 110	P	11/08/2024	15:29	LB133365
	Zinc	2520	2500	101	90 - 110	P	11/08/2024	15:29	LB133365
CCV03	Aluminum	9930	10000	99	90 - 110	P	11/08/2024	16:23	LB133365
	Antimony	5110	5000	102	90 - 110	P	11/08/2024	16:23	LB133365
	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
	Beryllium	234	250	94	90 - 110	P	11/08/2024	16:23	LB133365
	Cadmium	2380	2500	95	90 - 110	P	11/08/2024	16:23	LB133365
	Calcium	23600	25000	94	90 - 110	P	11/08/2024	16:23	LB133365
	Chromium	930	1000	93	90 - 110	P	11/08/2024	16:23	LB133365
	Cobalt	2410	2500	96	90 - 110	P	11/08/2024	16:23	LB133365
	Copper	1270	1250	101	90 - 110	P	11/08/2024	16:23	LB133365
	Iron	4880	5000	98	90 - 110	P	11/08/2024	16:23	LB133365
	Lead	4840	5000	97	90 - 110	P	11/08/2024	16:23	LB133365
	Magnesium	23700	25000	95	90 - 110	P	11/08/2024	16:23	LB133365
	Manganese	2390	2500	96	90 - 110	P	11/08/2024	16:23	LB133365
	Nickel	2410	2500	96	90 - 110	P	11/08/2024	16:23	LB133365
	Potassium	25600	25000	102	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
	Sodium	25100	25000	100	90 - 110	P	11/08/2024	16:23	LB133365
	Thallium	5140	5000	103	90 - 110	P	11/08/2024	16:23	LB133365
	Vanadium	2420	2500	97	90 - 110	P	11/08/2024	16:23	LB133365
	Zinc	2560	2500	102	90 - 110	P	11/08/2024	16:23	LB133365
CCV04	Aluminum	9690	10000	97	90 - 110	P	11/08/2024	17:16	LB133365
	Antimony	5290	5000	106	90 - 110	P	11/08/2024	17:16	LB133365

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	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
	Beryllium	227	250	91	90 - 110	P	11/08/2024	17:16	LB133365
	Cadmium	2420	2500	97	90 - 110	P	11/08/2024	17:16	LB133365
	Calcium	22800	25000	91	90 - 110	P	11/08/2024	17:16	LB133365
	Chromium	927	1000	93	90 - 110	P	11/08/2024	17:16	LB133365
	Cobalt	2450	2500	98	90 - 110	P	11/08/2024	17:16	LB133365
	Copper	1310	1250	105	90 - 110	P	11/08/2024	17:16	LB133365
	Iron	4860	5000	97	90 - 110	P	11/08/2024	17:16	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	17:16	LB133365
	Magnesium	23000	25000	92	90 - 110	P	11/08/2024	17:16	LB133365
	Manganese	2310	2500	93	90 - 110	P	11/08/2024	17:16	LB133365
	Nickel	2460	2500	98	90 - 110	P	11/08/2024	17:16	LB133365
	Potassium	25800	25000	103	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
	Sodium	24500	25000	98	90 - 110	P	11/08/2024	17:16	LB133365
	Thallium	5230	5000	105	90 - 110	P	11/08/2024	17:16	LB133365
	Vanadium	2350	2500	94	90 - 110	P	11/08/2024	17:16	LB133365
	Zinc	2610	2500	104	90 - 110	P	11/08/2024	17:16	LB133365
CCV05	Aluminum	9880	10000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Antimony	5230	5000	104	90 - 110	P	11/08/2024	18:04	LB133365
	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
	Beryllium	234	250	94	90 - 110	P	11/08/2024	18:04	LB133365
	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	18:04	LB133365
	Calcium	23500	25000	94	90 - 110	P	11/08/2024	18:04	LB133365
	Chromium	906	1000	91	90 - 110	P	11/08/2024	18:04	LB133365
	Cobalt	2460	2500	98	90 - 110	P	11/08/2024	18:04	LB133365
	Copper	1290	1250	103	90 - 110	P	11/08/2024	18:04	LB133365
	Iron	4750	5000	95	90 - 110	P	11/08/2024	18:04	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Magnesium	23700	25000	95	90 - 110	P	11/08/2024	18:04	LB133365
	Manganese	2280	2500	91	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	2460	2500	98	90 - 110	P	11/08/2024	18:04	LB133365
	Potassium	24800	25000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Selenium	5280	5000	106	90 - 110	P	11/08/2024	18:04	LB133365
	Silver	1230	1250	99	90 - 110	P	11/08/2024	18:04	LB133365
	Sodium	23400	25000	94	90 - 110	P	11/08/2024	18:04	LB133365
	Thallium	5280	5000	106	90 - 110	P	11/08/2024	18:04	LB133365
	Vanadium	2410	2500	96	90 - 110	P	11/08/2024	18:04	LB133365
	Zinc	2540	2500	102	90 - 110	P	11/08/2024	18:04	LB133365
CCV06	Aluminum	9790	10000	98	90 - 110	P	11/08/2024	18:55	LB133365
	Antimony	5070	5000	101	90 - 110	P	11/08/2024	18:55	LB133365
	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
	Beryllium	236	250	95	90 - 110	P	11/08/2024	18:55	LB133365
	Cadmium	2360	2500	95	90 - 110	P	11/08/2024	18:55	LB133365
	Calcium	23500	25000	94	90 - 110	P	11/08/2024	18:55	LB133365
	Chromium	923	1000	92	90 - 110	P	11/08/2024	18:55	LB133365
	Cobalt	2400	2500	96	90 - 110	P	11/08/2024	18:55	LB133365
	Copper	1250	1250	100	90 - 110	P	11/08/2024	18:55	LB133365
	Iron	4700	5000	94	90 - 110	P	11/08/2024	18:55	LB133365
	Lead	4830	5000	97	90 - 110	P	11/08/2024	18:55	LB133365
	Magnesium	23500	25000	94	90 - 110	P	11/08/2024	18:55	LB133365
	Manganese	2290	2500	92	90 - 110	P	11/08/2024	18:55	LB133365
	Nickel	2400	2500	96	90 - 110	P	11/08/2024	18:55	LB133365
	Potassium	24500	25000	98	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
	Sodium	23900	25000	96	90 - 110	P	11/08/2024	18:55	LB133365
	Thallium	4990	5000	100	90 - 110	P	11/08/2024	18:55	LB133365
	Vanadium	2390	2500	96	90 - 110	P	11/08/2024	18:55	LB133365
	Zinc	2530	2500	101	90 - 110	P	11/08/2024	18:55	LB133365
CCV07	Aluminum	10100	10000	101	90 - 110	P	11/08/2024	19:47	LB133365
	Antimony	5180	5000	104	90 - 110	P	11/08/2024	19:47	LB133365
	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

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

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	243	250	97	90 - 110	P	11/08/2024	19:47	LB133365
	Cadmium	2400	2500	96	90 - 110	P	11/08/2024	19:47	LB133365
	Calcium	24000	25000	96	90 - 110	P	11/08/2024	19:47	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	19:47	LB133365
	Cobalt	2440	2500	98	90 - 110	P	11/08/2024	19:47	LB133365
	Copper	1280	1250	102	90 - 110	P	11/08/2024	19:47	LB133365
	Iron	4710	5000	94	90 - 110	P	11/08/2024	19:47	LB133365
	Lead	4910	5000	98	90 - 110	P	11/08/2024	19:47	LB133365
	Magnesium	24100	25000	97	90 - 110	P	11/08/2024	19:47	LB133365
	Manganese	2310	2500	92	90 - 110	P	11/08/2024	19:47	LB133365
	Nickel	2440	2500	98	90 - 110	P	11/08/2024	19:47	LB133365
	Potassium	25000	25000	100	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
	Sodium	24600	25000	98	90 - 110	P	11/08/2024	19:47	LB133365
	Thallium	5050	5000	101	90 - 110	P	11/08/2024	19:47	LB133365
	Vanadium	2440	2500	98	90 - 110	P	11/08/2024	19:47	LB133365
	Zinc	2580	2500	103	90 - 110	P	11/08/2024	19:47	LB133365
CCV08	Aluminum	9430	10000	94	90 - 110	P	11/08/2024	20:48	LB133365
	Antimony	4620	5000	92	90 - 110	P	11/08/2024	20:48	LB133365
	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
	Beryllium	257	250	103	90 - 110	P	11/08/2024	20:48	LB133365
	Cadmium	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Calcium	24000	25000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Cobalt	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Copper	1170	1250	94	90 - 110	P	11/08/2024	20:48	LB133365
	Iron	4520	5000	90	90 - 110	P	11/08/2024	20:48	LB133365
	Lead	4790	5000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Magnesium	24600	25000	98	90 - 110	P	11/08/2024	20:48	LB133365
	Manganese	2300	2500	92	90 - 110	P	11/08/2024	20:48	LB133365
	Nickel	2380	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Potassium	25700	25000	103	90 - 110	P	11/08/2024	20:48	LB133365

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	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
	Sodium	24200	25000	97	90 - 110	P	11/08/2024	20:48	LB133365
	Thallium	4810	5000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Vanadium	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Zinc	2380	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
CCV09	Aluminum	9360	10000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Antimony	4620	5000	92	90 - 110	P	11/08/2024	21:50	LB133365
	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
	Beryllium	251	250	100	90 - 110	P	11/08/2024	21:50	LB133365
	Cadmium	2310	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Calcium	23600	25000	95	90 - 110	P	11/08/2024	21:50	LB133365
	Chromium	902	1000	90	90 - 110	P	11/08/2024	21:50	LB133365
	Cobalt	2330	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Copper	1160	1250	93	90 - 110	P	11/08/2024	21:50	LB133365
	Iron	5470	5000	109	90 - 110	P	11/08/2024	21:50	LB133365
	Lead	4710	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Magnesium	24200	25000	97	90 - 110	P	11/08/2024	21:50	LB133365
	Manganese	2270	2500	91	90 - 110	P	11/08/2024	21:50	LB133365
	Nickel	2330	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Potassium	25800	25000	103	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
	Sodium	23900	25000	96	90 - 110	P	11/08/2024	21:50	LB133365
	Thallium	4710	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Vanadium	2350	2500	94	90 - 110	P	11/08/2024	21:50	LB133365
	Zinc	2420	2500	97	90 - 110	P	11/08/2024	21:50	LB133365
CCV10	Aluminum	10100	10000	101	90 - 110	P	11/08/2024	23:24	LB133365
	Antimony	4640	5000	93	90 - 110	P	11/08/2024	23:24	LB133365
	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
	Beryllium	259	250	104	90 - 110	P	11/08/2024	23:24	LB133365
	Cadmium	2430	2500	97	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	22800	25000	91	90 - 110	P	11/08/2024	23:24	LB133365
	Chromium	1000	1000	100	90 - 110	P	11/08/2024	23:24	LB133365
	Cobalt	2530	2500	101	90 - 110	P	11/08/2024	23:24	LB133365
	Copper	1130	1250	91	90 - 110	P	11/08/2024	23:24	LB133365
	Iron	5150	5000	103	90 - 110	P	11/08/2024	23:24	LB133365
	Lead	4980	5000	100	90 - 110	P	11/08/2024	23:24	LB133365
	Magnesium	24100	25000	96	90 - 110	P	11/08/2024	23:24	LB133365
	Manganese	2380	2500	95	90 - 110	P	11/08/2024	23:24	LB133365
	Nickel	2360	2500	94	90 - 110	P	11/08/2024	23:24	LB133365
	Potassium	26300	25000	105	90 - 110	P	11/08/2024	23:24	LB133365
	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
	Sodium	26100	25000	104	90 - 110	P	11/08/2024	23:24	LB133365
	Thallium	4930	5000	98	90 - 110	P	11/08/2024	23:24	LB133365
	Vanadium	2610	2500	104	90 - 110	P	11/08/2024	23:24	LB133365
	Zinc	2690	2500	108	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

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	0.18	0.2	88	40 - 160	CV	10/28/2024	11:23	LB133167
CRI01	Aluminum	102	100	102	40 - 160	P	10/28/2024	13:12	LB133175
	Antimony	50.0	50.0	100	40 - 160	P	10/28/2024	13:12	LB133175
	Arsenic	19.1	20.0	96	40 - 160	P	10/28/2024	13:12	LB133175
	Barium	93.7	100	94	40 - 160	P	10/28/2024	13:12	LB133175
	Beryllium	5.64	6.0	94	40 - 160	P	10/28/2024	13:12	LB133175
	Cadmium	5.55	6.0	92	40 - 160	P	10/28/2024	13:12	LB133175
	Calcium	1930	2000	96	40 - 160	P	10/28/2024	13:12	LB133175
	Chromium	9.13	10.0	91	40 - 160	P	10/28/2024	13:12	LB133175
	Cobalt	29.3	30.0	98	40 - 160	P	10/28/2024	13:12	LB133175
	Copper	21.1	20.0	105	40 - 160	P	10/28/2024	13:12	LB133175
	Iron	98.8	100	99	40 - 160	P	10/28/2024	13:12	LB133175
	Lead	11.5	12.0	96	40 - 160	P	10/28/2024	13:12	LB133175
	Magnesium	1900	2000	95	40 - 160	P	10/28/2024	13:12	LB133175
	Manganese	19.1	20.0	95	40 - 160	P	10/28/2024	13:12	LB133175
	Nickel	39.2	40.0	98	40 - 160	P	10/28/2024	13:12	LB133175
	Potassium	1940	2000	97	40 - 160	P	10/28/2024	13:12	LB133175
	Selenium	17.6	20.0	88	40 - 160	P	10/28/2024	13:12	LB133175
	Silver	11.0	10.0	110	40 - 160	P	10/28/2024	13:12	LB133175
	Sodium	1780	2000	89	40 - 160	P	10/28/2024	13:12	LB133175
	Thallium	34.9	40.0	87	40 - 160	P	10/28/2024	13:12	LB133175
	Vanadium	36.9	40.0	92	40 - 160	P	10/28/2024	13:12	LB133175
	Zinc	37.3	40.0	93	40 - 160	P	10/28/2024	13:12	LB133175
CRA	Mercury	0.20	0.2	98	40 - 160	CV	10/29/2024	10:41	LB133185
CRI01	Aluminum	94.3	100	94	40 - 160	P	10/29/2024	12:40	LB133198
	Antimony	47.7	50.0	95	40 - 160	P	10/29/2024	12:40	LB133198
	Arsenic	18.4	20.0	92	40 - 160	P	10/29/2024	12:40	LB133198
	Barium	90.0	100	90	40 - 160	P	10/29/2024	12:40	LB133198
	Beryllium	5.49	6.0	92	40 - 160	P	10/29/2024	12:40	LB133198
	Cadmium	5.32	6.0	89	40 - 160	P	10/29/2024	12:40	LB133198
	Calcium	1880	2000	94	40 - 160	P	10/29/2024	12:40	LB133198
	Chromium	10.2	10.0	102	40 - 160	P	10/29/2024	12:40	LB133198
	Cobalt	28.2	30.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Copper	20.6	20.0	103	40 - 160	P	10/29/2024	12:40	LB133198
	Iron	102	100	102	40 - 160	P	10/29/2024	12:40	LB133198

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

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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
CRI01	Lead	9.96	12.0	83	40 - 160	P	10/29/2024	12:40	LB133198
	Magnesium	1840	2000	92	40 - 160	P	10/29/2024	12:40	LB133198
	Manganese	18.9	20.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Nickel	37.3	40.0	93	40 - 160	P	10/29/2024	12:40	LB133198
	Potassium	1920	2000	96	40 - 160	P	10/29/2024	12:40	LB133198
	Selenium	19.2	20.0	96	40 - 160	P	10/29/2024	12:40	LB133198
	Silver	10.6	10.0	106	40 - 160	P	10/29/2024	12:40	LB133198
	Sodium	1780	2000	89	40 - 160	P	10/29/2024	12:40	LB133198
	Thallium	37.7	40.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Vanadium	36.0	40.0	90	40 - 160	P	10/29/2024	12:40	LB133198
	Zinc	38.5	40.0	96	40 - 160	P	10/29/2024	12:40	LB133198
CRI01	Aluminum	104	100	104	40 - 160	P	11/08/2024	14:20	LB133365
	Antimony	47.8	50.0	96	40 - 160	P	11/08/2024	14:20	LB133365
	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
	Beryllium	5.62	6.0	94	40 - 160	P	11/08/2024	14:20	LB133365
	Cadmium	6.16	6.0	103	40 - 160	P	11/08/2024	14:20	LB133365
	Calcium	1950	2000	98	40 - 160	P	11/08/2024	14:20	LB133365
	Chromium	9.24	10.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Cobalt	27.8	30.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Copper	21.4	20.0	107	40 - 160	P	11/08/2024	14:20	LB133365
	Iron	92.9	100	93	40 - 160	P	11/08/2024	14:20	LB133365
	Lead	11.8	12.0	98	40 - 160	P	11/08/2024	14:20	LB133365
	Magnesium	1930	2000	97	40 - 160	P	11/08/2024	14:20	LB133365
	Manganese	19.6	20.0	98	40 - 160	P	11/08/2024	14:20	LB133365
	Nickel	36.8	40.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Potassium	1840	2000	92	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
	Sodium	1600	2000	80	40 - 160	P	11/08/2024	14:20	LB133365
	Thallium	37.3	40.0	93	40 - 160	P	11/08/2024	14:20	LB133365
	Vanadium	38.5	40.0	96	40 - 160	P	11/08/2024	14:20	LB133365
	Zinc	41.9	40.0	105	40 - 160	P	11/08/2024	14:20	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB55	Mercury	0.20	+/-0.20	U	0.20	CV	10/28/2024	11:14	LB133167

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB79	Mercury	0.20	+/-0.20	U	0.20	CV	10/28/2024	11:21	LB133167
CCB80	Mercury	0.20	+/-0.20	U	0.20	CV	10/28/2024	11:53	LB133167
CCB81	Mercury	0.20	+/-0.20	U	0.20	CV	10/28/2024	12:14	LB133167

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB57	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	10:34	LB133185

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB86	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	10:39	LB133185
CCB87	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	11:06	LB133185
CCB88	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	11:34	LB133185
CCB89	Mercury	0.20	+/-0.20	U	0.20	CV	10/29/2024	11:59	LB133185

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/28/2024	13:08	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	13:08	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	13:08	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	13:08	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	13:08	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	13:08	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	13:08	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	13:08	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	13:08	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	13:08	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	13:08	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	13:08	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	13:08	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	13:08	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	13:08	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	13:08	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	13:08	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	13:08	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	13:08	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	13:08	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	13:08	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	13:08	LB133175

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/28/2024	13:39	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	13:39	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	13:39	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	13:39	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	13:39	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	13:39	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	13:39	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	13:39	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	13:39	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	13:39	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	13:39	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	13:39	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	13:39	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	13:39	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	13:39	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	13:39	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	13:39	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	13:39	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	13:39	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	13:39	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	13:39	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	13:39	LB133175
CCB02	Aluminum	100	+/-100	U	100	P	10/28/2024	14:30	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	14:30	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	14:30	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	14:30	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	14:30	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	14:30	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	14:30	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	14:30	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	14:30	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	14:30	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	14:30	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	14:30	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	14:30	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	14:30	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	14:30	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	14:30	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	14:30	LB133175

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/28/2024	14:30	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	14:30	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	14:30	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	14:30	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	14:30	LB133175
CCB03	Aluminum	100	+/-100	U	100	P	10/28/2024	15:20	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	15:20	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	15:20	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	15:20	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	15:20	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	15:20	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	15:20	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	15:20	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	15:20	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	15:20	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	15:20	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	15:20	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	15:20	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	15:20	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	15:20	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	15:20	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	15:20	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	15:20	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	15:20	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	15:20	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	15:20	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	15:20	LB133175
CCB04	Aluminum	100	+/-100	U	100	P	10/28/2024	16:10	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	16:10	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	16:10	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	16:10	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	16:10	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	16:10	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	16:10	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	16:10	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	16:10	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	16:10	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	16:10	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	16:10	LB133175

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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/28/2024	16:10	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	16:10	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	16:10	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	16:10	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	16:10	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	16:10	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	16:10	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	16:10	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	16:10	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	16:10	LB133175
CCB05	Aluminum	100	+/-100	U	100	P	10/28/2024	17:01	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	17:01	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	17:01	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	17:01	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	17:01	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	17:01	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	17:01	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	17:01	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	17:01	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	17:01	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	17:01	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	17:01	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	17:01	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	17:01	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	17:01	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	17:01	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	17:01	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	17:01	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	17:01	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	17:01	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	17:01	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	17:01	LB133175
CCB06	Aluminum	100	+/-100	U	100	P	10/28/2024	17:54	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	17:54	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	17:54	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	17:54	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	17:54	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	17:54	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	17:54	LB133175

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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/28/2024	17:54	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	17:54	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	17:54	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	17:54	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	17:54	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	17:54	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	17:54	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	17:54	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	17:54	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	17:54	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	17:54	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	17:54	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	17:54	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	17:54	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	17:54	LB133175
CCB07	Aluminum	100	+/-100	U	100	P	10/28/2024	18:47	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	18:47	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	18:47	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	18:47	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	18:47	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	18:47	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	18:47	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	18:47	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	18:47	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	18:47	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	18:47	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	18:47	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	18:47	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	18:47	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	18:47	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	18:47	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	18:47	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	18:47	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	18:47	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	18:47	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	18:47	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	18:47	LB133175
CCB08	Aluminum	100	+/-100	U	100	P	10/28/2024	19:37	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	19:37	LB133175

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/28/2024	19:37	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	19:37	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	19:37	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	19:37	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	19:37	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	19:37	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	19:37	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	19:37	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	19:37	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	19:37	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	19:37	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	19:37	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	19:37	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	19:37	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	19:37	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	19:37	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	19:37	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	19:37	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	19:37	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	19:37	LB133175
CCB09	Aluminum	100	+/-100	U	100	P	10/28/2024	20:26	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	20:26	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	20:26	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	20:26	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	20:26	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	20:26	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	20:26	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	20:26	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	20:26	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	20:26	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	20:26	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	20:26	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	20:26	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	20:26	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	20:26	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	20:26	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	20:26	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	20:26	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	20:26	LB133175

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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/28/2024	20:26	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	20:26	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	20:26	LB133175
CCB10	Aluminum	100	+/-100	U	100	P	10/28/2024	21:25	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	21:25	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	21:25	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	21:25	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	21:25	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	21:25	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	21:25	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	21:25	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	21:25	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	21:25	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	21:25	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	21:25	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	21:25	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	21:25	LB133175
	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	21:25	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	21:25	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	21:25	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	21:25	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	21:25	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	21:25	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	21:25	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	21:25	LB133175
CCB11	Aluminum	100	+/-100	U	100	P	10/28/2024	21:43	LB133175
	Antimony	50.0	+/-50.0	U	50.0	P	10/28/2024	21:43	LB133175
	Arsenic	20.0	+/-20.0	U	20.0	P	10/28/2024	21:43	LB133175
	Barium	100	+/-100	U	100	P	10/28/2024	21:43	LB133175
	Beryllium	6.00	+/-6.00	U	6.00	P	10/28/2024	21:43	LB133175
	Cadmium	6.00	+/-6.00	U	6.00	P	10/28/2024	21:43	LB133175
	Calcium	2000	+/-2000	U	2000	P	10/28/2024	21:43	LB133175
	Chromium	10.0	+/-10.0	U	10.0	P	10/28/2024	21:43	LB133175
	Cobalt	30.0	+/-30.0	U	30.0	P	10/28/2024	21:43	LB133175
	Copper	20.0	+/-20.0	U	20.0	P	10/28/2024	21:43	LB133175
	Iron	100	+/-100	U	100	P	10/28/2024	21:43	LB133175
	Lead	12.0	+/-12.0	U	12.0	P	10/28/2024	21:43	LB133175
	Magnesium	2000	+/-2000	U	2000	P	10/28/2024	21:43	LB133175
	Manganese	20.0	+/-20.0	U	20.0	P	10/28/2024	21:43	LB133175

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Nickel	40.0	+/-40.0	U	40.0	P	10/28/2024	21:43	LB133175
	Potassium	2000	+/-2000	U	2000	P	10/28/2024	21:43	LB133175
	Selenium	20.0	+/-20.0	U	20.0	P	10/28/2024	21:43	LB133175
	Silver	10.0	+/-10.0	U	10.0	P	10/28/2024	21:43	LB133175
	Sodium	2000	+/-2000	U	2000	P	10/28/2024	21:43	LB133175
	Thallium	40.0	+/-40.0	U	40.0	P	10/28/2024	21:43	LB133175
	Vanadium	40.0	+/-40.0	U	40.0	P	10/28/2024	21:43	LB133175
	Zinc	40.0	+/-40.0	U	40.0	P	10/28/2024	21:43	LB133175

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/29/2024	12:35	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	12:35	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	12:35	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	12:35	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	12:35	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	12:35	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	12:35	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	12:35	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	12:35	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	12:35	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/29/2024	13:06	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	13:06	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	13:06	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	13:06	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	13:06	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	13:06	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	13:06	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	13:06	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	13:06	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	13:06	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
CCB02	Aluminum	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	14:15	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	14:15	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	14:15	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	14:15	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	14:15	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	14:15	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/29/2024	14:15	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
CCB03	Aluminum	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	15:06	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	15:06	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	15:06	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	15:06	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	15:06	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	15:06	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	15:06	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
CCB04	Aluminum	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	16:03	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:03	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:03	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	16:03	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	16:03	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	16:03	LB133198

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/29/2024	16:03	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	16:03	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
CCB05	Aluminum	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	16:57	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:57	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:57	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	16:57	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	16:57	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	16:57	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	16:57	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
CCB06	Aluminum	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	17:58	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	17:58	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	17:58	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	17:58	LB133198

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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	10/29/2024	17:58	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	17:58	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	17:58	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	17:58	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	17:58	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	17:58	LB133198
	Sodium	561	+/-2000	J	2000	P	10/29/2024	17:58	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
CCB07	Aluminum	100	+/-100	U	100	P	10/29/2024	18:24	LB133198
	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	18:24	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	18:24	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	18:24	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	18:24	LB133198
	Calcium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	18:24	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	18:24	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	18:24	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	18:24	LB133198
	Magnesium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	18:24	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198

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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	11/08/2024	14:16	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	14:16	LB133365
	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
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:16	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:16	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	14:16	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:16	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	14:16	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	14:16	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:16	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	14:16	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	LB133365
	Potassium	2000	+/-2000	U	2000	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
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	14:16	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	11/08/2024	14:50	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	14:50	LB133365
	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
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:50	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:50	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	14:50	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:50	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	14:50	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	14:50	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:50	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	14:50	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
	Potassium	2000	+/-2000	U	2000	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
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	14:50	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
CCB02	Aluminum	100	+/-100	U	100	P	11/08/2024	15:33	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	15:33	LB133365
	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
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	15:33	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	15:33	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	15:33	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	15:33	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	15:33	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	15:33	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	11/08/2024	15:33	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
CCB03	Aluminum	100	+/-100	U	100	P	11/08/2024	16:28	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	16:28	LB133365
	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
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	16:28	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	16:28	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	16:28	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	16:28	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	16:28	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	16:28	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	16:28	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	16:28	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
	Potassium	2000	+/-2000	U	2000	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
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	16:28	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
CCB04	Aluminum	100	+/-100	U	100	P	11/08/2024	17:22	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	17:22	LB133365
	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
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	17:22	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	17:22	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	17:22	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	17:22	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	17:22	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	17:22	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	17:22	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	11/08/2024	17:22	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
	Potassium	2000	+/-2000	U	2000	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
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	17:22	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
CCB05	Aluminum	100	+/-100	U	100	P	11/08/2024	18:08	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	18:08	LB133365
	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
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:08	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:08	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	18:08	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	18:08	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	18:08	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	18:08	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:08	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	18:08	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
	Potassium	2000	+/-2000	U	2000	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
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	18:08	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
CCB06	Aluminum	100	+/-100	U	100	P	11/08/2024	18:59	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	18:59	LB133365
	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
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:59	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:59	LB133365
	Calcium	2000	+/-2000	U	2000	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	11/08/2024	18:59	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	18:59	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	18:59	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:59	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	18:59	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
	Potassium	2000	+/-2000	U	2000	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
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	18:59	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
CCB07	Aluminum	100	+/-100	U	100	P	11/08/2024	19:51	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	19:51	LB133365
	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
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	19:51	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	19:51	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	19:51	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	19:51	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	19:51	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	19:51	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	19:51	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	19:51	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
	Potassium	2000	+/-2000	U	2000	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
	Sodium	941	+/-2000	J	2000	P	11/08/2024	19:51	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
CCB08	Aluminum	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	20:57	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	11/08/2024	20:57	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	20:57	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	20:57	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	20:57	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	20:57	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	20:57	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	20:57	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	20:57	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
	Potassium	2000	+/-2000	U	2000	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
	Sodium	720	+/-2000	J	2000	P	11/08/2024	20:57	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
CCB09	Aluminum	100	+/-100	U	100	P	11/08/2024	21:55	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	21:55	LB133365
	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
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	21:55	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	21:55	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	21:55	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	21:55	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	21:55	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	21:55	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	21:55	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	21:55	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	21:55	LB133365
	Potassium	2000	+/-2000	U	2000	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
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	21:55	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	11/08/2024	21:55	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	21:55	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	21:55	LB133365
CCB10	Aluminum	100	+/-100	U	100	P	11/08/2024	23:35	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	23:35	LB133365
	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
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	23:35	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	23:35	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	23:35	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	23:35	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	23:35	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	23:35	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	23:35	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	23:35	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365
	Potassium	2000	+/-2000	U	2000	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
	Sodium	742	+/-2000	J	2000	P	11/08/2024	23:35	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365

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

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164472BL		**WATER**		**Batch Number:**	**PB164472**		**Prep Date:**	**10/25/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	10/28/2024	11:32	LB133167

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164487BL		**SOLID**		**Batch Number:**	**PB164487**		**Prep Date:**	**10/28/2024**	
	Mercury	0.013	<0.013	U	0.013	CV	10/29/2024	10:48	LB133185

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

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164415BL		**SOLID**		**Batch Number:**	**PB164415**		**Prep Date:**	**10/25/2024**	
	Aluminum	4.22	<4.22	U	4.22	P	10/28/2024	21:08	LB133175
	Antimony	2.11	<2.11	U	2.11	P	10/28/2024	21:08	LB133175
	Arsenic	0.84	<0.84	U	0.84	P	10/28/2024	21:08	LB133175
	Barium	4.22	<4.22	U	4.22	P	10/28/2024	21:08	LB133175
	Beryllium	0.25	<0.25	U	0.25	P	10/28/2024	21:08	LB133175
	Cadmium	0.25	<0.25	U	0.25	P	10/28/2024	21:08	LB133175
	Calcium	84.4	<84.4	U	84.4	P	10/28/2024	21:08	LB133175
	Chromium	0.42	<0.42	U	0.42	P	10/28/2024	21:08	LB133175
	Cobalt	1.27	<1.27	U	1.27	P	10/28/2024	21:08	LB133175
	Copper	0.84	<0.84	U	0.84	P	10/28/2024	21:08	LB133175
	Iron	4.22	<4.22	U	4.22	P	10/28/2024	21:08	LB133175
	Lead	0.51	<0.51	U	0.51	P	10/28/2024	21:08	LB133175
	Magnesium	84.4	<84.4	U	84.4	P	10/28/2024	21:08	LB133175
	Manganese	0.84	<0.84	U	0.84	P	10/28/2024	21:08	LB133175
	Nickel	1.69	<1.69	U	1.69	P	10/28/2024	21:08	LB133175
	Potassium	84.4	<84.4	U	84.4	P	10/28/2024	21:08	LB133175
	Selenium	0.84	<0.84	U	0.84	P	10/28/2024	21:08	LB133175
	Silver	0.42	<0.42	U	0.42	P	10/28/2024	21:08	LB133175
	Sodium	84.4	<84.4	U	84.4	P	10/28/2024	21:08	LB133175
	Thallium	1.69	<1.69	U	1.69	P	10/28/2024	21:08	LB133175
	Vanadium	1.69	<1.69	U	1.69	P	10/28/2024	21:08	LB133175
	Zinc	1.69	<1.69	U	1.69	P	10/28/2024	21:08	LB133175

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164438BL		**WATER**		**Batch Number:**	**PB164438**		**Prep Date:**	**10/26/2024**	
	Aluminum	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Antimony	25.0	<25.0	U	25.0	P	10/29/2024	18:07	LB133198
	Arsenic	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Barium	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Beryllium	3.00	<3.00	U	3.00	P	10/29/2024	18:07	LB133198
	Cadmium	3.00	<3.00	U	3.00	P	10/29/2024	18:07	LB133198
	Calcium	1000	<1000	U	1000	P	10/29/2024	18:07	LB133198
	Chromium	5.00	<5.00	U	5.00	P	10/29/2024	18:07	LB133198
	Cobalt	15.0	<15.0	U	15.0	P	10/29/2024	18:07	LB133198
	Copper	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Iron	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Lead	6.00	<6.00	U	6.00	P	10/29/2024	18:07	LB133198
	Magnesium	1000	<1000	U	1000	P	10/29/2024	18:07	LB133198
	Manganese	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Nickel	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198

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

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Instrument: P4

Potassium	1000	<1000	U	1000	P	10/29/2024	18:07	LB133198
Selenium	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
Silver	5.00	<5.00	U	5.00	P	10/29/2024	18:07	LB133198
Sodium	386	<1000	J	1000	P	10/29/2024	18:07	LB133198
Thallium	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
Vanadium	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
Zinc	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198

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

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	251000	255000	98	216000	294000	10/28/2024	13:16	LB133175
	Antimony	-1.00			-50	50	10/28/2024	13:16	LB133175
	Arsenic	2.59			-20	20	10/28/2024	13:16	LB133175
	Barium	2.22	6.0	37	-94	106	10/28/2024	13:16	LB133175
	Beryllium	1.16			-6	6	10/28/2024	13:16	LB133175
	Cadmium	6.97	1.0	697	-5	7	10/28/2024	13:16	LB133175
	Calcium	232000	245000	95	208000	282000	10/28/2024	13:16	LB133175
	Chromium	56.5	52.0	109	42	62	10/28/2024	13:16	LB133175
	Cobalt	2.29			-30	30	10/28/2024	13:16	LB133175
	Copper	-8.35	2.0	418	-18	22	10/28/2024	13:16	LB133175
	Iron	104000	101000	103	85600	116500	10/28/2024	13:16	LB133175
	Lead	8.36			-12	12	10/28/2024	13:16	LB133175
	Magnesium	255000	255000	100	216000	294000	10/28/2024	13:16	LB133175
	Manganese	5.76	7.0	82	-13	27	10/28/2024	13:16	LB133175
	Nickel	3.07	2.0	154	-38	42	10/28/2024	13:16	LB133175
	Potassium	-7.85			0	0	10/28/2024	13:16	LB133175
	Selenium	-9.09			-20	20	10/28/2024	13:16	LB133175
	Silver	3.99			-10	10	10/28/2024	13:16	LB133175
	Sodium	-37.5			0	0	10/28/2024	13:16	LB133175
	Thallium	7.63			-40	40	10/28/2024	13:16	LB133175
	Vanadium	6.67			-40	40	10/28/2024	13:16	LB133175
	Zinc	-2.07			-40	40	10/28/2024	13:16	LB133175
ICSAB01	Aluminum	245000	247000	99	209000	285000	10/28/2024	13:21	LB133175
	Antimony	620	618	100	525	711	10/28/2024	13:21	LB133175
	Arsenic	107	104	103	88.4	120	10/28/2024	13:21	LB133175
	Barium	472	537	88	437	637	10/28/2024	13:21	LB133175
	Beryllium	474	495	96	420	570	10/28/2024	13:21	LB133175
	Cadmium	967	972	100	826	1120	10/28/2024	13:21	LB133175
	Calcium	226000	235000	96	199000	271000	10/28/2024	13:21	LB133175
	Chromium	556	542	103	460	624	10/28/2024	13:21	LB133175
	Cobalt	513	476	108	404	548	10/28/2024	13:21	LB133175
	Copper	491	511	96	434	588	10/28/2024	13:21	LB133175
	Iron	103000	99300	104	84400	114500	10/28/2024	13:21	LB133175
	Lead	55.7	49.0	114	37	61	10/28/2024	13:21	LB133175
	Magnesium	247000	248000	100	210000	286000	10/28/2024	13:21	LB133175
	Manganese	459	507	90	430	584	10/28/2024	13:21	LB133175
	Nickel	1010	954	106	810	1100	10/28/2024	13:21	LB133175
	Potassium	45.1			0	0	10/28/2024	13:21	LB133175
	Selenium	39.8	46.0	86	26	66	10/28/2024	13:21	LB133175
	Silver	212	201	106	170	232	10/28/2024	13:21	LB133175
	Sodium	30.6			0	0	10/28/2024	13:21	LB133175
	Thallium	97.4	108	90	68	148	10/28/2024	13:21	LB133175

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

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	463	491	94	417	565	10/28/2024	13:21	LB133175
	Zinc	1060	952	111	809	1095	10/28/2024	13:21	LB133175
ICSA01	Aluminum	240000	255000	94	216000	294000	10/29/2024	12:44	LB133198
	Antimony	-1.89			-50	50	10/29/2024	12:44	LB133198
	Arsenic	1.13			-20	20	10/29/2024	12:44	LB133198
	Barium	1.47	6.0	24	-94	106	10/29/2024	12:44	LB133198
	Beryllium	1.17			-6	6	10/29/2024	12:44	LB133198
	Cadmium	6.66	1.0	666	-5	7	10/29/2024	12:44	LB133198
	Calcium	224000	245000	91	208000	282000	10/29/2024	12:44	LB133198
	Chromium	57.6	52.0	111	42	62	10/29/2024	12:44	LB133198
	Cobalt	2.06			-30	30	10/29/2024	12:44	LB133198
	Copper	-5.53	2.0	276	-18	22	10/29/2024	12:44	LB133198
	Iron	102000	101000	101	85600	116500	10/29/2024	12:44	LB133198
	Lead	7.65			-12	12	10/29/2024	12:44	LB133198
	Magnesium	245000	255000	96	216000	294000	10/29/2024	12:44	LB133198
	Manganese	5.46	7.0	78	-13	27	10/29/2024	12:44	LB133198
	Nickel	2.53	2.0	126	-38	42	10/29/2024	12:44	LB133198
	Potassium	-70.7			0	0	10/29/2024	12:44	LB133198
	Selenium	-10.9			-20	20	10/29/2024	12:44	LB133198
	Silver	3.62			-10	10	10/29/2024	12:44	LB133198
	Sodium	-37.1			0	0	10/29/2024	12:44	LB133198
	Thallium	5.74			-40	40	10/29/2024	12:44	LB133198
	Vanadium	4.51			-40	40	10/29/2024	12:44	LB133198
	Zinc	-0.39			-40	40	10/29/2024	12:44	LB133198
ICSAB01	Aluminum	240000	247000	97	209000	285000	10/29/2024	12:48	LB133198
	Antimony	618	618	100	525	711	10/29/2024	12:48	LB133198
	Arsenic	108	104	104	88.4	120	10/29/2024	12:48	LB133198
	Barium	470	537	88	437	637	10/29/2024	12:48	LB133198
	Beryllium	469	495	95	420	570	10/29/2024	12:48	LB133198
	Cadmium	970	972	100	826	1120	10/29/2024	12:48	LB133198
	Calcium	224000	235000	95	199000	271000	10/29/2024	12:48	LB133198
	Chromium	573	542	106	460	624	10/29/2024	12:48	LB133198
	Cobalt	516	476	108	404	548	10/29/2024	12:48	LB133198
	Copper	496	511	97	434	588	10/29/2024	12:48	LB133198
	Iron	100000	99300	101	84400	114500	10/29/2024	12:48	LB133198
	Lead	54.7	49.0	112	37	61	10/29/2024	12:48	LB133198
	Magnesium	244000	248000	98	210000	286000	10/29/2024	12:48	LB133198
	Manganese	459	507	90	430	584	10/29/2024	12:48	LB133198
	Nickel	1020	954	107	810	1100	10/29/2024	12:48	LB133198
	Potassium	-63.3			0	0	10/29/2024	12:48	LB133198
	Selenium	38.3	46.0	83	26	66	10/29/2024	12:48	LB133198
	Silver	207	201	103	170	232	10/29/2024	12:48	LB133198

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

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	Sodium	-27.2			0	0	10/29/2024	12:48	LB133198
	Thallium	98.7	108	91	68	148	10/29/2024	12:48	LB133198
	Vanadium	459	491	94	417	565	10/29/2024	12:48	LB133198
	Zinc	1090	952	114	809	1095	10/29/2024	12:48	LB133198
ICSA01	Aluminum	264000	255000	104	216000	294000	11/08/2024	14:24	LB133365
	Antimony	-1.65			-50	50	11/08/2024	14:24	LB133365
	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
	Beryllium	1.29			-6	6	11/08/2024	14:24	LB133365
	Cadmium	6.11	1.0	611	-5	7	11/08/2024	14:24	LB133365
	Calcium	243000	245000	99	208000	282000	11/08/2024	14:24	LB133365
	Chromium	54.3	52.0	104	42	62	11/08/2024	14:24	LB133365
	Cobalt	2.11			-30	30	11/08/2024	14:24	LB133365
	Copper	14.3	2.0	715	-18	22	11/08/2024	14:24	LB133365
	Iron	98600	101000	98	85600	116500	11/08/2024	14:24	LB133365
	Lead	9.97			-12	12	11/08/2024	14:24	LB133365
	Magnesium	267000	255000	105	216000	294000	11/08/2024	14:24	LB133365
	Manganese	3.65	7.0	52	-13	27	11/08/2024	14:24	LB133365
	Nickel	2.63	2.0	132	-38	42	11/08/2024	14:24	LB133365
	Potassium	17.8			0	0	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
	Sodium	15.0			0	0	11/08/2024	14:24	LB133365
	Thallium	-0.89			-40	40	11/08/2024	14:24	LB133365
	Vanadium	8.97			-40	40	11/08/2024	14:24	LB133365
	Zinc	7.04			-40	40	11/08/2024	14:24	LB133365
ICSAB01	Aluminum	260000	247000	105	209000	285000	11/08/2024	14:30	LB133365
	Antimony	622	618	101	525	711	11/08/2024	14:30	LB133365
	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
	Beryllium	493	495	100	420	570	11/08/2024	14:30	LB133365
	Cadmium	979	972	101	826	1120	11/08/2024	14:30	LB133365
	Calcium	237000	235000	101	199000	271000	11/08/2024	14:30	LB133365
	Chromium	521	542	96	460	624	11/08/2024	14:30	LB133365
	Cobalt	498	476	105	404	548	11/08/2024	14:30	LB133365
	Copper	499	511	98	434	588	11/08/2024	14:30	LB133365
	Iron	95700	99300	96	84400	114500	11/08/2024	14:30	LB133365
	Lead	57.3	49.0	117	37	61	11/08/2024	14:30	LB133365
	Magnesium	260000	248000	105	210000	286000	11/08/2024	14:30	LB133365
	Manganese	480	507	95	430	584	11/08/2024	14:30	LB133365
	Nickel	981	954	103	810	1100	11/08/2024	14:30	LB133365
	Potassium	-6.03			0	0	11/08/2024	14:30	LB133365

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

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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	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
	Sodium	-36.6			0	0	11/08/2024	14:30	LB133365
	Thallium	90.2	108	84	68	148	11/08/2024	14:30	LB133365
	Vanadium	495	491	101	417	565	11/08/2024	14:30	LB133365
	Zinc	1090	952	114	809	1095	11/08/2024	14:30	LB133365

METAL
QC
DATA

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

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Solid **sample id:** P4547-05 **client id:** BP-F-20MS

Percent Solids for Sample: 86.6 **Spiked ID:** P4547-05MS **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5910		5470		99.5	441		P
Antimony	mg/Kg	75 - 125	32.4		0.15	J	39.8	81		P
Arsenic	mg/Kg	75 - 125	32.3		2.11		39.8	76		P
Barium	mg/Kg	75 - 125	62.5		51.3		10.0	112		P
Beryllium	mg/Kg	75 - 125	7.77		0.64		10.0	71	N	P
Cadmium	mg/Kg	75 - 125	10.9		1.72		10.0	91		P
Calcium	mg/Kg	75 - 125	6010		5490		49.8	1062		P
Chromium	mg/Kg	75 - 125	28.9		13.2		19.9	79		P
Cobalt	mg/Kg	75 - 125	19.1		8.93		10.0	102		P
Copper	mg/Kg	75 - 125	67.6		55.3		14.9	83		P
Iron	mg/Kg	75 - 125	15200		14200		150	705		P
Lead	mg/Kg	75 - 125	52.6		8.50		49.8	89		P
Magnesium	mg/Kg	75 - 125	3580		3280		99.5	294		P
Manganese	mg/Kg	75 - 125	370		338		10.0	316		P
Nickel	mg/Kg	75 - 125	43.0		18.0		24.9	100		P
Potassium	mg/Kg	75 - 125	2040		1480		500	111		P
Selenium	mg/Kg	75 - 125	72.5		0.94	U	99.5	73	N	P
Silver	mg/Kg	75 - 125	3.71		0.53		3.7	86		P
Sodium	mg/Kg	75 - 125	687		518		150	112		P
Thallium	mg/Kg	75 - 125	91.8		1.88	U	99.5	92		P
Vanadium	mg/Kg	75 - 125	27.9		16.0		14.9	80		P
Zinc	mg/Kg	75 - 125	44.3		34.2		10.0	100		P

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

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Solid **sample id:** P4547-05 **client id:** BP-F-20MSD

Percent Solids for Sample: 86.6 **Spiked ID:** P4547-05MSD **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	6240		5470		110	703		P
Antimony	mg/Kg	75 - 125	34.3		0.15	J	42.2	81		P
Arsenic	mg/Kg	75 - 125	34.2		2.11		42.2	76		P
Barium	mg/Kg	75 - 125	65.5		51.3		10.5	135		P
Beryllium	mg/Kg	75 - 125	8.04		0.64		10.5	71	N	P
Cadmium	mg/Kg	75 - 125	11.5		1.72		10.5	93		P
Calcium	mg/Kg	75 - 125	6350		5490		52.7	1635		P
Chromium	mg/Kg	75 - 125	29.7		13.2		21.1	78		P
Cobalt	mg/Kg	75 - 125	20.1		8.93		10.5	106		P
Copper	mg/Kg	75 - 125	71.8		55.3		15.8	105		P
Iron	mg/Kg	75 - 125	15500		14200		160	846		P
Lead	mg/Kg	75 - 125	55.2		8.50		52.7	89		P
Magnesium	mg/Kg	75 - 125	3760		3280		110	429		P
Manganese	mg/Kg	75 - 125	385		338		10.5	453		P
Nickel	mg/Kg	75 - 125	45.2		18.0		26.4	103		P
Potassium	mg/Kg	75 - 125	2090		1480		530	115		P
Selenium	mg/Kg	75 - 125	76.7		0.94	U	110	70	N	P
Silver	mg/Kg	75 - 125	3.80		0.53		4.0	82		P
Sodium	mg/Kg	75 - 125	702		518		160	115		P
Thallium	mg/Kg	75 - 125	94.1		1.88	U	110	86		P
Vanadium	mg/Kg	75 - 125	29.1		16.0		15.8	83		P
Zinc	mg/Kg	75 - 125	45.9		34.2		10.5	111		P

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

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Water **sample id:** P4548-01 **client id:** MW-1MS

Percent Solids for Sample: NA **Spiked ID:** P4548-01MS **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	943		50.0	U	1000	94		P
Antimony	ug/L	75 - 125	355		25.0	U	400	89		P
Arsenic	ug/L	75 - 125	391		10.0	U	400	98		P
Barium	ug/L	75 - 125	158		62.5		100	95		P
Beryllium	ug/L	75 - 125	80.7		3.00	U	100	81		P
Cadmium	ug/L	75 - 125	92.7		2.09	J	100	91		P
Calcium	ug/L	75 - 125	32600		32100		500	107		P
Chromium	ug/L	75 - 125	177		1.48	J	200	88		P
Cobalt	ug/L	75 - 125	93.1		15.0	U	100	93		P
Copper	ug/L	75 - 125	138		10.0	U	150	92		P
Iron	ug/L	75 - 125	1590		42.8	J	1500	103		P
Lead	ug/L	75 - 125	388		6.00	U	500	78		P
Magnesium	ug/L	75 - 125	6210		5330		1000	88		P
Manganese	ug/L	75 - 125	179		86.6		100	93		P
Nickel	ug/L	75 - 125	243		6.80	J	250	95		P
Potassium	ug/L	75 - 125	10200		5230		5000	99		P
Selenium	ug/L	75 - 125	804		10.0	U	1000	80		P
Silver	ug/L	75 - 125	22.5		5.00	U	37.5	60	N	P
Sodium	ug/L	75 - 125	54400		53100		1500	87		P
Thallium	ug/L	75 - 125	862		20.0	U	1000	86		P
Vanadium	ug/L	75 - 125	150		20.0	U	150	100		P
Zinc	ug/L	75 - 125	298		254		100	43	N	P

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

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Water **sample id:** P4548-01 **client id:** MW-1MSD

Percent Solids for Sample: NA **Spiked ID:** P4548-01MSD **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	966		50.0	U	1000	97		P
Antimony	ug/L	75 - 125	367		25.0	U	400	92		P
Arsenic	ug/L	75 - 125	401		10.0	U	400	100		P
Barium	ug/L	75 - 125	161		62.5		100	99		P
Beryllium	ug/L	75 - 125	83.1		3.00	U	100	83		P
Cadmium	ug/L	75 - 125	95.0		2.09	J	100	93		P
Calcium	ug/L	75 - 125	33500		32100		500	284		P
Chromium	ug/L	75 - 125	181		1.48	J	200	90		P
Cobalt	ug/L	75 - 125	95.5		15.0	U	100	96		P
Copper	ug/L	75 - 125	141		10.0	U	150	94		P
Iron	ug/L	75 - 125	1580		42.8	J	1500	103		P
Lead	ug/L	75 - 125	398		6.00	U	500	80		P
Magnesium	ug/L	75 - 125	6400		5330		1000	107		P
Manganese	ug/L	75 - 125	184		86.6		100	98		P
Nickel	ug/L	75 - 125	249		6.80	J	250	97		P
Potassium	ug/L	75 - 125	10200		5230		5000	99		P
Selenium	ug/L	75 - 125	826		10.0	U	1000	83		P
Silver	ug/L	75 - 125	22.8		5.00	U	37.5	61	N	P
Sodium	ug/L	75 - 125	54400		53100		1500	87		P
Thallium	ug/L	75 - 125	831		20.0	U	1000	83		P
Vanadium	ug/L	75 - 125	153		20.0	U	150	102		P
Zinc	ug/L	75 - 125	303		254		100	49	N	P

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

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Water **sample id:** P4549-02 **client id:** TT-067-IDWGW-20241024MS

Percent Solids for Sample: NA **Spiked ID:** P4549-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	4.10		0.20	U	4.0	102		CV

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

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Water **sample id:** P4549-02 **client id:** TT-067-IDWGW-20241024MSD

Percent Solids for Sample: NA **Spiked ID:** P4549-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.71		0.20	U	4.0	93		CV

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

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Solid **sample id:** P4574-01 **client id:** GRAVEL-1MS

Percent Solids for Sample: 100 **Spiked ID:** P4574-01MS **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.28		0.013	U	0.27	102		CV

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

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4578

contract: PORT06 **lab code:** CHEM **case no.:** P4578 **sas no.:** P4578

matrix: Solid **sample id:** P4574-01 **client id:** GRAVEL-1MSD

Percent Solids for Sample: 100 **Spiked ID:** P4574-01MSD **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.27		0.013	U	0.26	103		CV

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

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Solid **Level:** LOW **Client ID:** BP-F-20A

Sample ID: P4547-05 **Spiked ID:** P4547-05A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Beryllium	mg/Kg	75 - 125	7.02		0.64		9.40	68		P
Selenium	mg/Kg	75 - 125	67.0		0.94	U	93.9	71		P

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

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Level:** LOW **Client ID:** MW-1A

Sample ID: P4548-01 **Spiked ID:** P4548-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	ug/L	75 - 125	22.7		5.00	U	37.5	60		P
Zinc	ug/L	75 - 125	301		254		100	47		P

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

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Solid **Sample ID:** P4547-05 **Client ID:** BP-F-20DUP

Percent Solids for Sample: 86.6 **Duplicate ID** P4547-05DUP **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5470		5660		3		P
Antimony	mg/Kg	20	0.15	J	2.66	U	200.0		P
Arsenic	mg/Kg	20	2.11		2.18		3		P
Barium	mg/Kg	20	51.3		53.7		5		P
Beryllium	mg/Kg	20	0.64		0.67		5		P
Cadmium	mg/Kg	20	1.72		1.70		1		P
Calcium	mg/Kg	20	5490		8870		47	*	P
Chromium	mg/Kg	20	13.2		14.2		7		P
Cobalt	mg/Kg	20	8.93		9.09		2		P
Copper	mg/Kg	20	55.3		51.1		8		P
Iron	mg/Kg	20	14200		15100		6		P
Lead	mg/Kg	20	8.50		8.76		3		P
Magnesium	mg/Kg	20	3280		3490		6		P
Manganese	mg/Kg	20	338		385		13		P
Nickel	mg/Kg	20	18.0		19.0		5		P
Potassium	mg/Kg	20	1480		1720		15		P
Selenium	mg/Kg	20	0.94	U	1.06	U			P
Silver	mg/Kg	20	0.53		0.56		6		P
Sodium	mg/Kg	20	518		554		7		P
Thallium	mg/Kg	20	1.88	U	2.13	U			P
Vanadium	mg/Kg	20	16.0		16.8		5		P
Zinc	mg/Kg	20	34.2		36.6		7		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: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Solid **Sample ID:** P4547-05MS **Client ID:** BP-F-20MSD

Percent Solids for Sample: 86.6 **Duplicate ID** P4547-05MSD **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5910		6240		5		P
Antimony	mg/Kg	20	32.4		34.3		6		P
Arsenic	mg/Kg	20	32.3		34.2		6		P
Barium	mg/Kg	20	62.5		65.5		5		P
Beryllium	mg/Kg	20	7.77		8.04		3		P
Cadmium	mg/Kg	20	10.9		11.5		6		P
Calcium	mg/Kg	20	6010		6350		6		P
Chromium	mg/Kg	20	28.9		29.7		3		P
Cobalt	mg/Kg	20	19.1		20.1		5		P
Copper	mg/Kg	20	67.6		71.8		6		P
Iron	mg/Kg	20	15200		15500		2		P
Lead	mg/Kg	20	52.6		55.2		5		P
Magnesium	mg/Kg	20	3580		3760		5		P
Manganese	mg/Kg	20	370		385		4		P
Nickel	mg/Kg	20	43.0		45.2		5		P
Potassium	mg/Kg	20	2040		2090		2		P
Selenium	mg/Kg	20	72.5		76.7		6		P
Silver	mg/Kg	20	3.71		3.80		2		P
Sodium	mg/Kg	20	687		702		2		P
Thallium	mg/Kg	20	91.8		94.1		2		P
Vanadium	mg/Kg	20	27.9		29.1		4		P
Zinc	mg/Kg	20	44.3		45.9		4		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: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Sample ID:** P4548-01 **Client ID:** MW-1DUP

Percent Solids for Sample: NA **Duplicate ID** P4548-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	50.0	U	50.0	U			P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	62.5		65.6		5		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	2.09	J	2.18	J	4		P
Calcium	ug/L	20	32100		33500		4		P
Chromium	ug/L	20	1.48	J	1.64	J	10		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	42.8	J	42.0	J	2		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	5330		5570		4		P
Manganese	ug/L	20	86.6		91.1		5		P
Nickel	ug/L	20	6.80	J	7.17	J	5		P
Potassium	ug/L	20	5230		5290		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	53100		54500		3		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	254		262		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: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Sample ID:** P4548-01MS **Client ID:** MW-1MSD

Percent Solids for Sample: NA **Duplicate ID** P4548-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	943		966		2		P
Antimony	ug/L	20	355		367		3		P
Arsenic	ug/L	20	391		401		3		P
Barium	ug/L	20	158		161		2		P
Beryllium	ug/L	20	80.7		83.1		3		P
Cadmium	ug/L	20	92.7		95.0		2		P
Calcium	ug/L	20	32600		33500		3		P
Chromium	ug/L	20	177		181		2		P
Cobalt	ug/L	20	93.1		95.5		3		P
Copper	ug/L	20	138		141		2		P
Iron	ug/L	20	1590		1580		1		P
Lead	ug/L	20	388		398		3		P
Magnesium	ug/L	20	6210		6400		3		P
Manganese	ug/L	20	179		184		3		P
Nickel	ug/L	20	243		249		2		P
Potassium	ug/L	20	10200		10200		0		P
Selenium	ug/L	20	804		826		3		P
Silver	ug/L	20	22.5		22.8		1		P
Sodium	ug/L	20	54400		54400		0		P
Thallium	ug/L	20	862		831		4		P
Vanadium	ug/L	20	150		153		2		P
Zinc	ug/L	20	298		303		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: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Sample ID:** P4549-02 **Client ID:** TT-067-IDWGW-20241024DUP

Percent Solids for Sample: NA **Duplicate ID** P4549-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

"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: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Water **Sample ID:** P4549-02MS **Client ID:** TT-067-IDWGW-20241024MSD

Percent Solids for Sample: NA **Duplicate ID** P4549-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	4.10		3.71		10		CV

"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: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Solid **Sample ID:** P4574-01 **Client ID:** GRAVEL-1DUP

Percent Solids for Sample: 100 **Duplicate ID** P4574-01DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.013	U	0.013	U			CV

"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: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Matrix: Solid **Sample ID:** P4574-01MS **Client ID:** GRAVEL-1MSD

Percent Solids for Sample: 100 **Duplicate ID** P4574-01MSD **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.28		0.27		3		CV

"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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164415BS							
Aluminum	mg/Kg	84.4	83.1		98	80 - 120	P
Antimony	mg/Kg	33.8	34.6		102	80 - 120	P
Arsenic	mg/Kg	33.8	32.3		96	80 - 120	P
Barium	mg/Kg	8.4	8.02		96	80 - 120	P
Beryllium	mg/Kg	8.4	8.28		99	80 - 120	P
Cadmium	mg/Kg	8.4	7.84		93	80 - 120	P
Calcium	mg/Kg	42.2	42.2	J	100	80 - 120	P
Chromium	mg/Kg	16.9	16.8		99	80 - 120	P
Cobalt	mg/Kg	8.4	8.42		100	80 - 120	P
Copper	mg/Kg	12.7	13.6		107	80 - 120	P
Iron	mg/Kg	130	125		96	80 - 120	P
Lead	mg/Kg	42.2	39.8		94	80 - 120	P
Magnesium	mg/Kg	84.4	78.6	J	93	80 - 120	P
Manganese	mg/Kg	8.4	7.88		94	80 - 120	P
Nickel	mg/Kg	21.1	21.2		100	80 - 120	P
Potassium	mg/Kg	420	437		104	80 - 120	P
Selenium	mg/Kg	84.4	83.7		99	80 - 120	P
Silver	mg/Kg	3.2	3.32		104	80 - 120	P
Sodium	mg/Kg	130	121		93	80 - 120	P
Thallium	mg/Kg	84.4	84.8		100	80 - 120	P
Vanadium	mg/Kg	12.7	12.1		95	80 - 120	P
Zinc	mg/Kg	8.4	9.02		107	80 - 120	P

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

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164438BS							
Aluminum	ug/L	1000	1010		101	80 - 120	P
Antimony	ug/L	400	375		94	80 - 120	P
Arsenic	ug/L	400	397		99	80 - 120	P
Barium	ug/L	100	99.2		99	80 - 120	P
Beryllium	ug/L	100	92.9		93	80 - 120	P
Cadmium	ug/L	100	84.8		85	80 - 120	P
Calcium	ug/L	500	543	J	109	80 - 120	P
Chromium	ug/L	200	188		94	80 - 120	P
Cobalt	ug/L	100	89.4		89	80 - 120	P
Copper	ug/L	150	155		103	80 - 120	P
Iron	ug/L	1500	1580		105	80 - 120	P
Lead	ug/L	500	426		85	80 - 120	P
Magnesium	ug/L	1000	1000		100	80 - 120	P
Manganese	ug/L	100	101		101	80 - 120	P
Nickel	ug/L	250	225		90	80 - 120	P
Potassium	ug/L	5000	5090		102	80 - 120	P
Selenium	ug/L	1000	979		98	80 - 120	P
Silver	ug/L	37.5	33.9		90	80 - 120	P
Sodium	ug/L	1500	1380		92	80 - 120	P
Thallium	ug/L	1000	903		90	80 - 120	P
Vanadium	ug/L	150	157		105	80 - 120	P
Zinc	ug/L	100	89.1		89	80 - 120	P

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

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164472BS							
Mercury	ug/L	4.0	3.89		97	82 - 119	CV

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

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164487BS							
Mercury	mg/Kg	0.27	0.24		87	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.

BP-F-20L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133175 **Lab Sample ID :** P4547-05L **SDG No.:** P4578

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	5470		6760		24		P
Antimony	0.15	J	11.7	U	100.0		P
Arsenic	2.11		1.88	J	11		P
Barium	51.3		63.7		24		P
Beryllium	0.64		0.88	J	38		P
Cadmium	1.72		1.13	J	34		P
Calcium	5490		7090		29		P
Chromium	13.2		17.5		32		P
Cobalt	8.93		9.34		5		P
Copper	55.3		73.6		33		P
Iron	14200		18100		28		P
Lead	8.50		9.09		7		P
Magnesium	3280		4210		28		P
Manganese	338		445		32		P
Nickel	18.0		19.3		7		P
Potassium	1480		1760		18		P
Selenium	0.94	U	4.69	U			P
Silver	0.53		0.71	J	36		P
Sodium	518		594		15		P
Thallium	1.88	U	9.39	U			P
Vanadium	16.0		20.7		29		P
Zinc	34.2		42.0		23		P

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

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

MW-1L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133198 **Lab Sample ID :** P4548-01L **SDG No.:** P4578

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	50.0	U	250	U			P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	62.5		49.2	J	21		P
Beryllium	3.00	U	15.0	U			P
Cadmium	2.09	J	2.11	J	1		P
Calcium	32100		34000		6		P
Chromium	1.48	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	42.8	J	250	U	100.0		P
Lead	6.00	U	30.0	U			P
Magnesium	5330		5680		6		P
Manganese	86.6		92.5		7		P
Nickel	6.80	J	7.42	J	9		P
Potassium	5230		5590		7		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	53100		50900		4		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	254		204		20		P

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

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

TT-067-IDWGW-20241024L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133167 **Lab Sample ID :** P4549-02L **SDG No.:** P4578

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
Mercury	0.20	U	1.00	U			CV

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

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

GRAVEL-1L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133185 **Lab Sample ID :** P4574-01L **SDG No.:** P4578

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.013	U	0.064	U			CV

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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4578 **SAS No.:** P4578

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

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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4578 **SAS No.:** P4578

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164415**						
P4547-05DUP	BP-F-20DUP	DUP	SOLID	10/25/2024	2.17	100.0	86.60
P4547-05MS	BP-F-20MS	MS	SOLID	10/25/2024	2.32	100.0	86.60
P4547-05MSD	BP-F-20MSD	MSD	SOLID	10/25/2024	2.19	100.0	86.60
P4578-03	WB-305-TOP	SAM	SOLID	10/25/2024	2.17	100.0	53.80
P4578-04	WB-305-TOP-1	SAM	SOLID	10/25/2024	2.10	100.0	58.70
P4578-05	WB-305-BOT	SAM	SOLID	10/25/2024	2.05	100.0	82.10
P4578-07	WB-305-BOT-1	SAM	SOLID	10/25/2024	2.29	100.0	94.40
PB164415BL	PB164415BL	MB	SOLID	10/25/2024	2.37	100.0	100.00
PB164415BS	PB164415BS	LCS	SOLID	10/25/2024	2.37	100.0	100.00

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

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4578 **SAS No.:** P4578

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164438**						
P4548-01DUP	MW-1DUP	DUP	WATER	10/26/2024	50.0	25.0	
P4548-01MS	MW-1MS	MS	WATER	10/26/2024	50.0	25.0	
P4548-01MSD	MW-1MSD	MSD	WATER	10/26/2024	50.0	25.0	
P4578-01	WB-305-SW	SAM	WATER	10/26/2024	50.0	25.0	
P4578-02	WB-305-SW-1	SAM	WATER	10/26/2024	50.0	25.0	
PB164438BL	PB164438BL	MB	WATER	10/26/2024	50.0	25.0	
PB164438BS	PB164438BS	LCS	WATER	10/26/2024	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4578 **SAS No.:** P4578

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164472**						
P4549-02DUP	TT-067-IDWGW-20241024DUP	DUP	WATER	10/25/2024	30.0	30.0	
P4549-02MS	TT-067-IDWGW-20241024MS	MS	WATER	10/25/2024	30.0	30.0	
P4549-02MSD	TT-067-IDWGW-20241024MSD	MSD	WATER	10/25/2024	30.0	30.0	
P4578-01	WB-305-SW	SAM	WATER	10/25/2024	30.0	30.0	
P4578-02	WB-305-SW-1	SAM	WATER	10/25/2024	30.0	30.0	
PB164472BL	PB164472BL	MB	WATER	10/25/2024	30.0	30.0	
PB164472BS	PB164472BS	LCS	WATER	10/25/2024	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: Portal Partners Tri-Venture **SDG No.:** P4578

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4578 **SAS No.:** P4578

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164487**						
P4574-01DUP	GRAVEL-1DUP	DUP	SOLID	10/28/2024	0.54	35.0	100.00
P4574-01MS	GRAVEL-1MS	MS	SOLID	10/28/2024	0.52	35.0	100.00
P4574-01MSD	GRAVEL-1MSD	MSD	SOLID	10/28/2024	0.54	35.0	100.00
P4578-03	WB-305-TOP	SAM	SOLID	10/28/2024	0.56	35.0	53.80
P4578-04	WB-305-TOP-1	SAM	SOLID	10/28/2024	0.56	35.0	58.70
P4578-05	WB-305-BOT	SAM	SOLID	10/28/2024	0.59	35.0	82.10
P4578-07	WB-305-BOT-1	SAM	SOLID	10/28/2024	0.52	35.0	94.40
PB164487BL	PB164487BL	MB	SOLID	10/28/2024	0.56	35.0	100.00
PB164487BS	PB164487BS	LCS	SOLID	10/28/2024	0.52	35.0	100.00

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

metals
- 14 -
ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133167

Start date: 10/28/2024 **End date:** 10/28/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1044	HG
S0.2	S0.2	1	1051	HG
S2.5	S2.5	1	1053	HG
S5	S5	1	1056	HG
S7.5	S7.5	1	1101	HG
S10	S10	1	1105	HG
ICV55	ICV55	1	1109	HG
ICB55	ICB55	1	1114	HG
CCV79	CCV79	1	1116	HG
CCB79	CCB79	1	1121	HG
CRA	CRA	1	1123	HG
PB164472BL	PB164472BL	1	1132	HG
PB164472BS	PB164472BS	1	1135	HG
P4549-02DUP	TT-067-IDWGW-20241024DUP	1	1139	HG
P4549-02MS	TT-067-IDWGW-20241024MS	1	1142	HG
P4549-02MSD	TT-067-IDWGW-20241024MSD	1	1144	HG
CCV80	CCV80	1	1148	HG
CCB80	CCB80	1	1153	HG
P4578-01	WB-305-SW	1	1200	HG
P4578-02	WB-305-SW-1	1	1202	HG
P4549-02L	TT-067-IDWGW-20241024L	5	1205	HG
CCV81	CCV81	1	1209	HG
CCB81	CCB81	1	1214	HG

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

metals
- 14 -
ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133175

Start date: 10/28/2024 **End date:** 10/28/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1158	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	1203	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	1207	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	1211	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	1216	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	1220	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	1257	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	1304	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	1308	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	1312	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	1316	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	1321	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	1335	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	1339	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	1425	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	1430	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	1515	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	1520	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	1606	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	1610	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	1657	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	1701	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	1750	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	1754	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	1843	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	1847	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	1933	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	1937	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4547-05DUP	BP-F-20DUP	1	1942	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4547-05L	BP-F-20L	5	1946	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4547-05MS	BP-F-20MS	1	1950	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4547-05MSD	BP-F-20MSD	1	1954	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4547-05A	BP-F-20A	1	1958	Be,Se
CCV09	CCV09	1	2022	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	2026	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-03	WB-305-TOP	1	2035	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-04	WB-305-TOP-1	1	2039	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-05	WB-305-BOT	1	2043	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-07	WB-305-BOT-1	1	2047	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164415BL	PB164415BL	1	2108	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164415BS	PB164415BS	1	2112	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: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133175

Start date: 10/28/2024 **End date:** 10/28/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV10	CCV10	1	2121	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2125	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	2138	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	2143	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: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133185

Start date: 10/29/2024 **End date:** 10/29/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1010	HG
S0.2	S0.2	1	1012	HG
S2.5	S2.5	1	1015	HG
S5	S5	1	1017	HG
S7.5	S7.5	1	1019	HG
S10	S10	1	1029	HG
ICV57	ICV57	1	1032	HG
ICB57	ICB57	1	1034	HG
CCV86	CCV86	1	1036	HG
CCB86	CCB86	1	1039	HG
CRA	CRA	1	1041	HG
PB164487BL	PB164487BL	1	1048	HG
PB164487BS	PB164487BS	1	1050	HG
P4574-01DUP	GRAVEL-1DUP	1	1055	HG
P4574-01MS	GRAVEL-1MS	1	1057	HG
P4574-01MSD	GRAVEL-1MSD	1	1059	HG
CCV87	CCV87	1	1104	HG
CCB87	CCB87	1	1106	HG
P4578-05	WB-305-BOT	1	1125	HG
P4578-07	WB-305-BOT-1	1	1127	HG
CCV88	CCV88	1	1132	HG
CCB88	CCB88	1	1134	HG
P4574-01L	GRAVEL-1L	5	1148	HG
P4578-03	WB-305-TOP	10	1152	HG
P4578-04	WB-305-TOP-1	10	1155	HG
CCV89	CCV89	1	1157	HG
CCB89	CCB89	1	1159	HG

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

metals
- 14 -
ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

Instrument id number: **Method:** **Run number:** LB133198

Start date: 10/29/2024 **End date:** 10/29/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1133	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	1138	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	1142	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	1146	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	1150	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	1154	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	1159	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	1231	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	1235	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	1240	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	1244	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	1248	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	1301	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	1306	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	1404	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	1415	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	1502	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	1506	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01DUP	MW-1DUP	1	1555	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	1559	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	1603	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01L	MW-1L	5	1611	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01MS	MW-1MS	1	1615	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01MSD	MW-1MSD	1	1619	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01A	MW-1A	1	1623	Ag,Zn
CCV05	CCV05	1	1653	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	1657	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-01	WB-305-SW	1	1715	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-02	WB-305-SW-1	1	1720	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-01	WB-305-SW	5	1749	Na
CCV06	CCV06	1	1753	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	1758	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-02	WB-305-SW-1	5	1802	Na
PB164438BL	PB164438BL	1	1807	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164438BS	PB164438BS	1	1816	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	1820	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	1824	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: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4578 **Sas no.:** P4578 **Sdg no.:** P4578

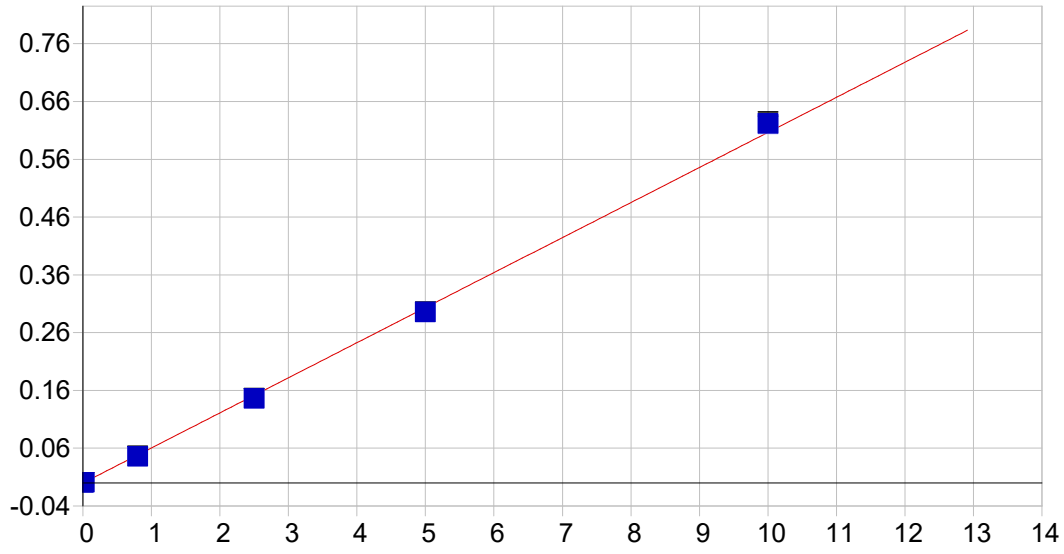
Instrument id number: **Method:** **Run number:** LB133365

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,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1338	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	1343	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	1347	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	1351	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	1355	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	1359	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	1411	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	1416	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	1420	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	1424	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	1430	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	1444	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	1450	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4578-04	WB-305-TOP-1	5	1455	Cr
CCV02	CCV02	1	1529	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	1533	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	1623	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	1628	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	1716	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	1722	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	1804	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	1808	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	1855	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	1859	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	1947	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	1951	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	2048	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	2057	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	2150	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	2155	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	2324	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2335	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL
RAW DATA

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



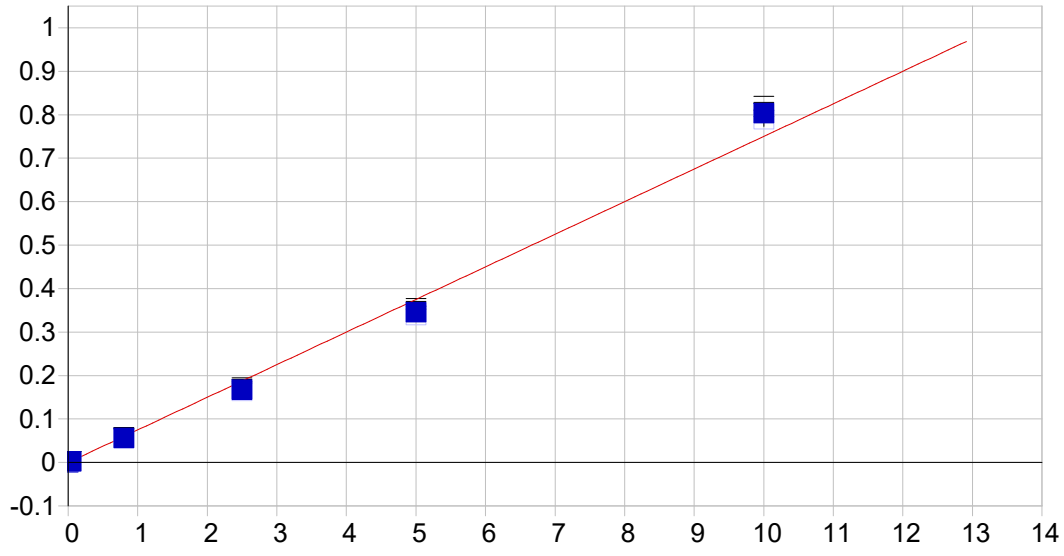
As 189.042 {479}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000180	Re-Slope:	1.000000
A1 (Gain):	0.060668	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999615	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.002044		
Predicted MQL:	0.006812		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00018	.000	1
S1	.02000	.01865	-.001	-6.77	.00095	.000	1
S3	2.5000	2.4108	-.089	-3.57	.14591	.000	1
S4	5.0000	4.8794	-.121	-2.41	.29551	.001	1
S5	10.000	10.248	.248	2.48	.62092	.004	1
S2	.80000	.76271	-.037	-4.66	.04604	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



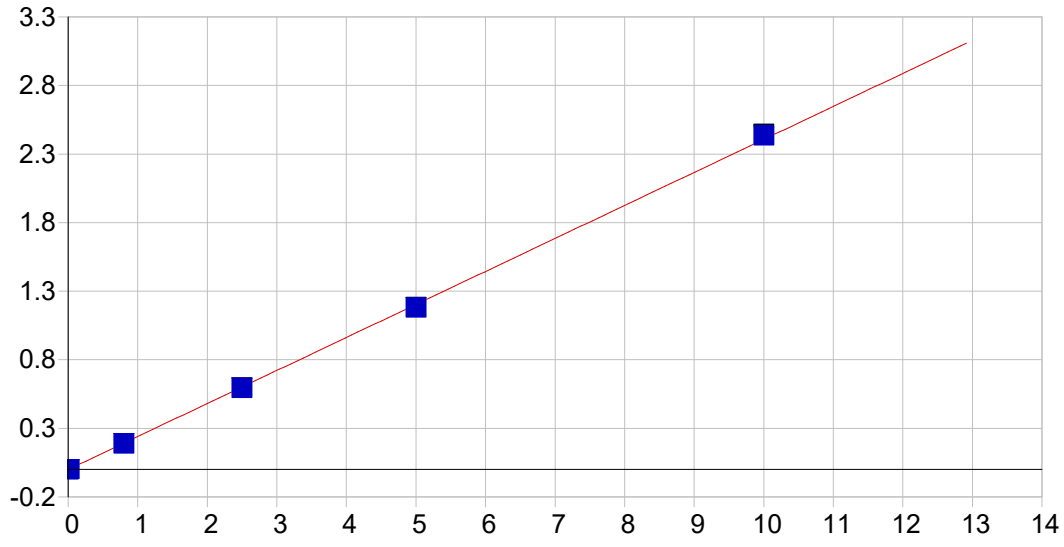
Tl 190.856 {477}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000127	Re-Slope:	1.000000
A1 (Gain):	0.075019	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.996809	Status:	OK.
Std Error of Est:	0.000195		
Predicted MDL:	0.001408		
Predicted MQL:	0.004694		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00013	.000	1
S1	.04000	.03359	-.006	-16.0	.00220	.000	1
S3	2.5000	2.2338	-.266	-10.6	.16399	.004	1
S4	5.0000	4.6085	-.391	-7.83	.33869	.009	1
S5	10.000	10.711	.711	7.11	.78956	.016	1
S2	.80000	.75319	-.047	-5.85	.05527	.001	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



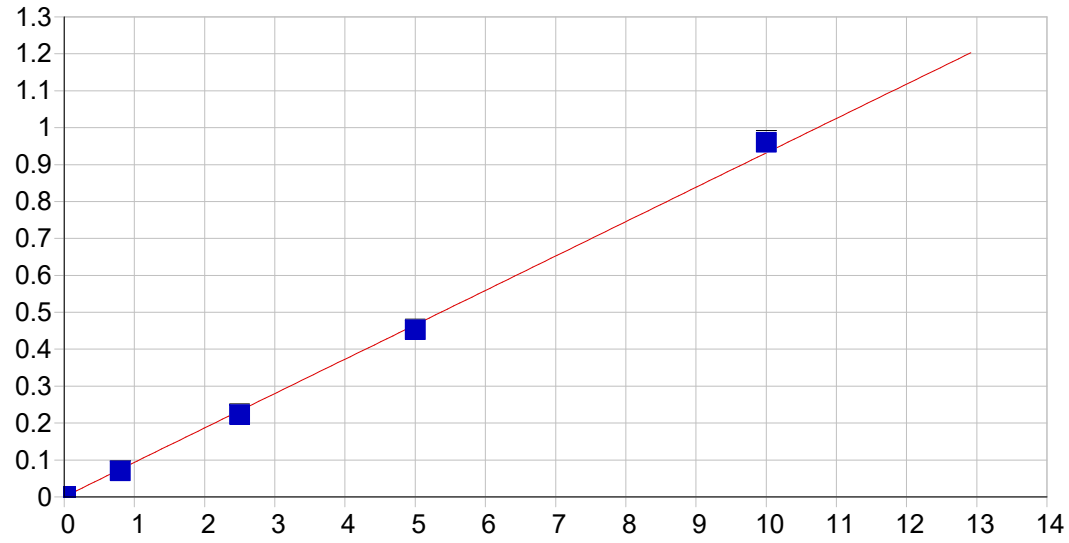
Pb 220.353 {453}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000180	Re-Slope:	1.000000
A1 (Gain):	0.240681	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999896	Status:	OK.
Std Error of Est:	0.000063		
Predicted MDL:	0.000938		
Predicted MQL:	0.003126		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00018	.000	1
S1	.01200	.01082	-.001	-9.87	.00237	.000	1
S3	2.5000	2.4721	-.028	-1.11	.59415	.001	1
S4	5.0000	4.9110	-.089	-1.78	1.1805	.001	1
S5	10.000	10.128	.128	1.28	2.4349	.009	1
S2	.80000	.78975	-.010	-1.28	.18969	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



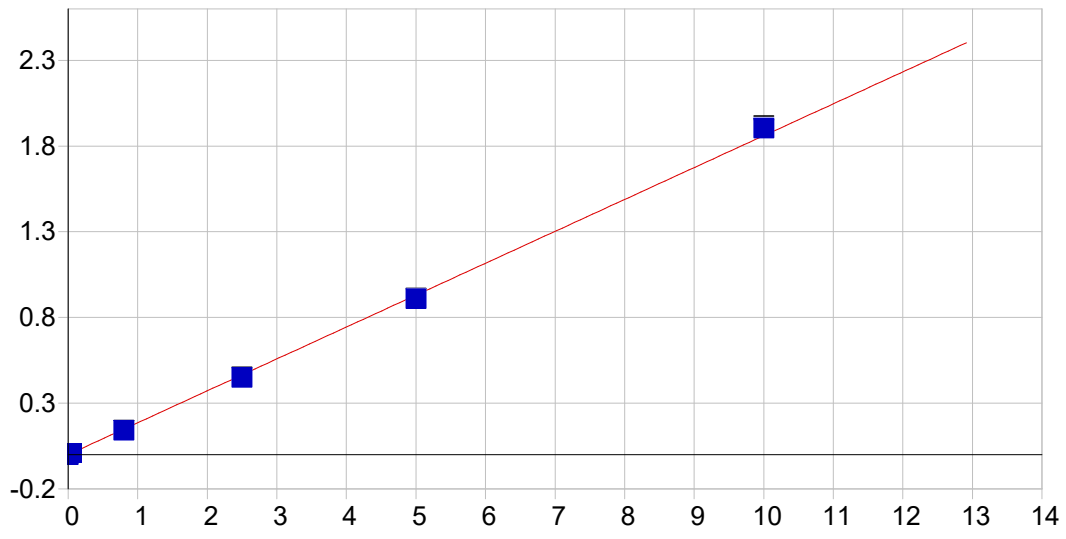
Se 196.090 {472}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000475	Re-Slope:	1.000000
A1 (Gain):	0.093119	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999416	Status:	OK.
Std Error of Est:	0.000075		
Predicted MDL:	0.001785		
Predicted MQL:	0.005949		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00048	.000	1
S1	.02000	.01683	-.003	-15.9	.00204	.000	1
S3	2.5000	2.3900	-.110	-4.40	.22298	.001	1
S4	5.0000	4.8563	-.144	-2.87	.45257	.002	1
S5	10.000	10.303	.303	3.03	.95969	.006	1
S2	.80000	.75332	-.047	-5.84	.07060	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



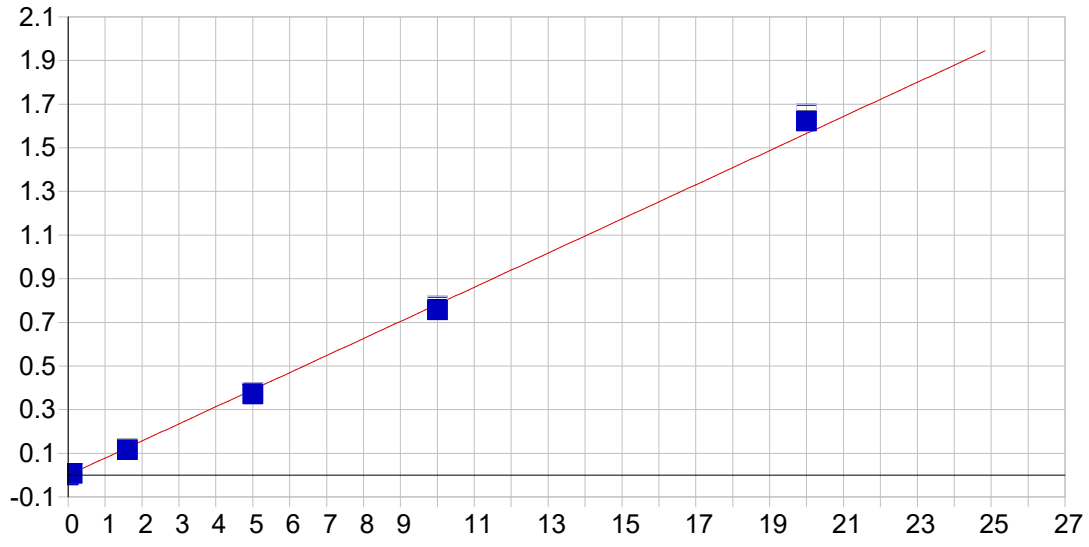
Sb 206.833 {463}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000133	Re-Slope:	1.000000
A1 (Gain):	0.186031	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999659	Status:	OK.
Std Error of Est:	0.000181		
Predicted MDL:	0.001093		
Predicted MQL:	0.003644		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00013	.000	1
S1	.05000	.04651	-.003	-6.98	.00880	.000	1
S3	2.5000	2.4182	-.082	-3.27	.45126	.001	1
S4	5.0000	4.8895	-.110	-2.21	.91226	.000	1
S5	10.000	10.234	.234	2.34	1.9089	.010	1
S2	.80000	.76223	-.038	-4.72	.14233	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



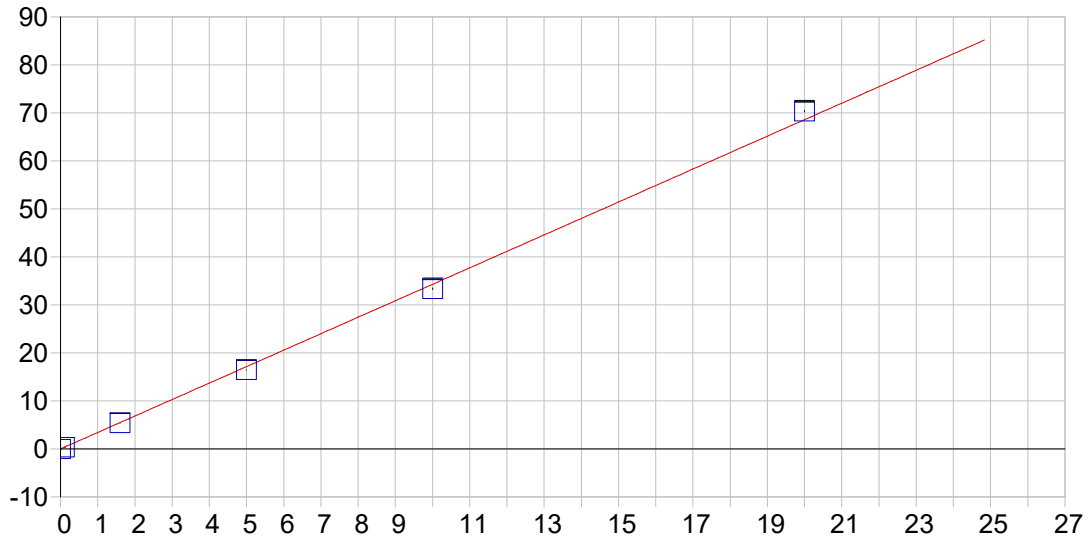
Al 396.152 { 85}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000090	Re-Slope:	1.000000
A1 (Gain):	0.078281	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999218	Status:	OK.
Std Error of Est:	0.000234		
Predicted MDL:	0.005132		
Predicted MQL:	0.017106		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00009	.000	1
S1	.10000	.09972	-.000	-.276	.00832	.000	1
S3	5.0000	4.7316	-.268	-5.37	.37790	.001	1
S4	10.000	9.6710	-.329	-3.29	.77215	.002	1
S5	20.000	20.716	.716	3.58	1.6520	.002	1
S2	1.6000	1.4812	-.119	-7.42	.11829	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



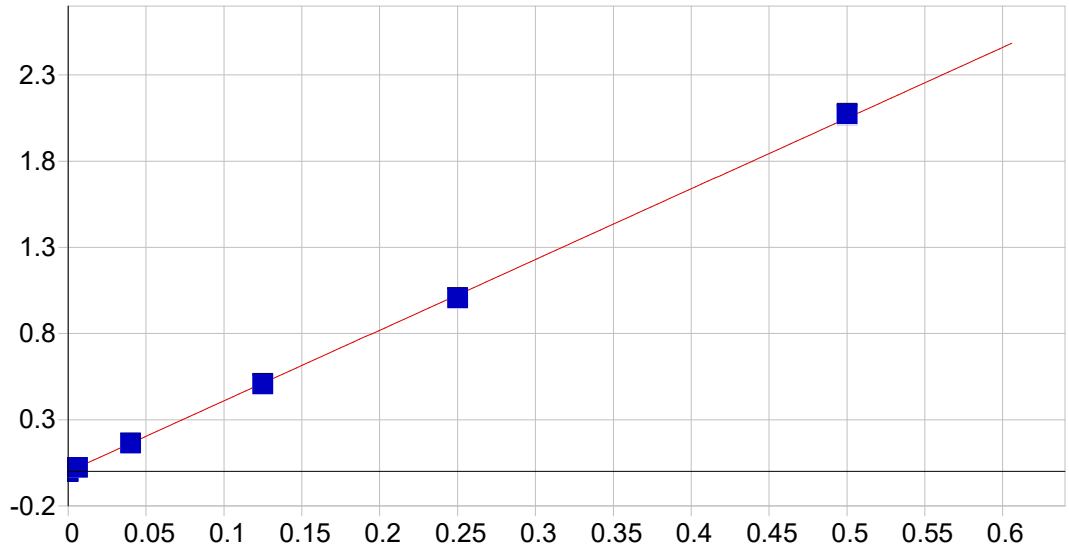
Ba 493.409 { 68}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004741	Re-Slope:	1.000000
A1 (Gain):	3.429821	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999595	Status:	OK.
Std Error of Est:	0.007237		
Predicted MDL:	0.000397		
Predicted MQL:	0.001322		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00472	.001	1
S1	.10000	.10007	.000	.073	.33849	.001	1
S3	5.0000	4.7950	-.205	-4.10	16.441	.032	1
S4	10.000	9.7265	-.274	-2.74	33.355	.173	1
S5	20.000	20.512	.512	2.56	70.348	.166	1
S2	1.6000	1.5662	-.034	-2.11	5.3671	.021	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



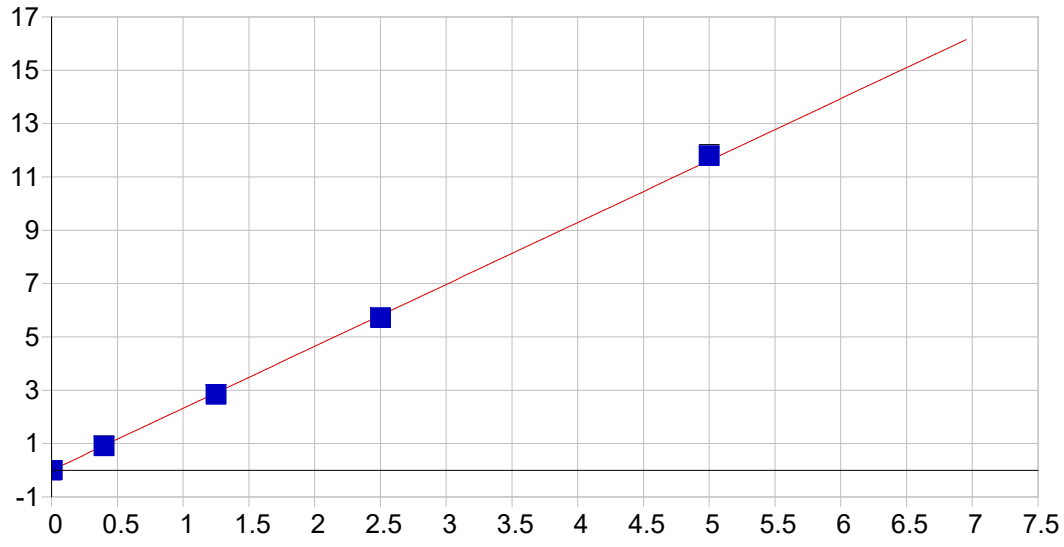
Be 234.861 {144}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000680	Re-Slope:	1.000000
A1 (Gain):	4.100616	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000173		
Predicted MDL:	0.000050		
Predicted MQL:	0.000167		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00068	.000	1
S1	.00600	.00559	-.000	-6.85	.02206	.000	1
S3	.12500	.12367	-.001	-1.07	.50414	.004	1
S4	.25000	.24553	-.004	-1.79	1.0016	.003	1
S5	.50000	.50618	.006	1.24	2.0658	.004	1
S2	.04000	.04003	.000	.076	.16274	.001	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



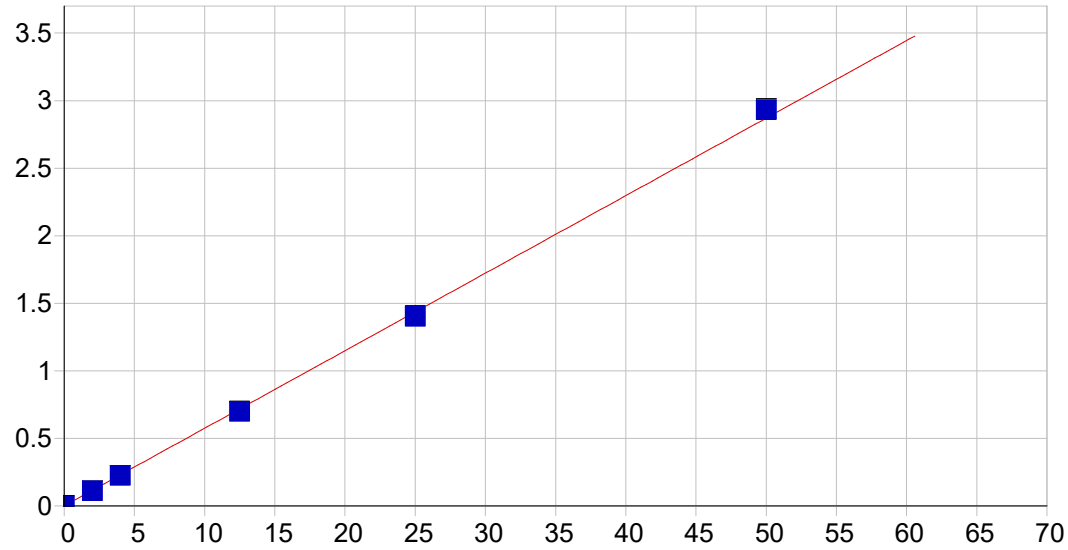
Cd 226.502 {449}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000104	Re-Slope:	1.000000
A1 (Gain):	2.322652	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999859	Status:	OK.
Std Error of Est:	0.000354		
Predicted MDL:	0.000074		
Predicted MQL:	0.000247		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00010	.000	1
S1	.00600	.00541	-.001	-9.86	.01251	.000	1
S3	1.2500	1.2224	-.028	-2.20	2.8412	.004	1
S4	2.5000	2.4643	-.036	-1.43	5.7275	.006	1
S5	5.0000	5.0748	.075	1.50	11.795	.038	1
S2	.40000	.38914	-.011	-2.72	.90437	.002	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



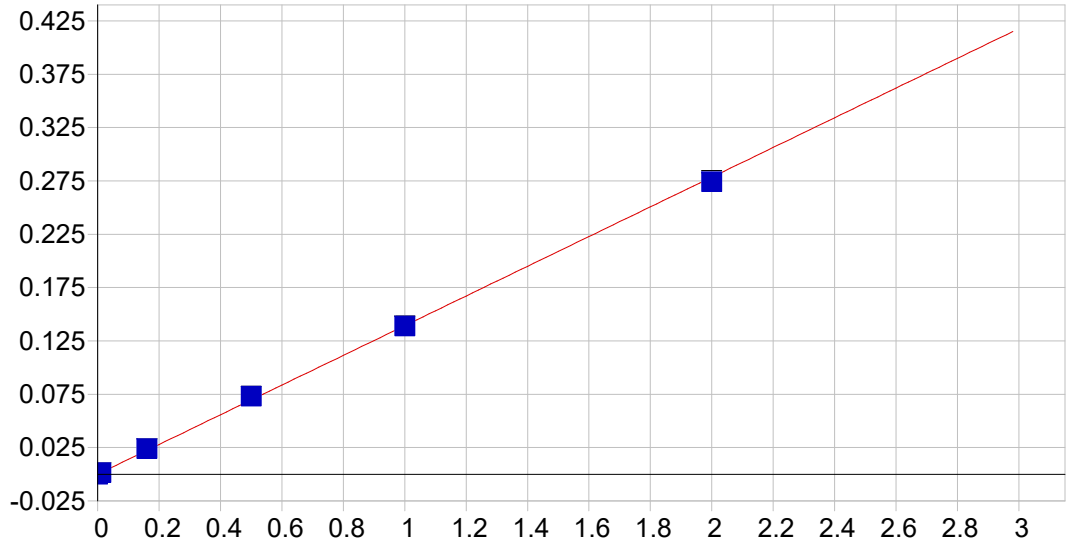
Ca 373.690 { 90}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000986	Re-Slope:	1.000000
A1 (Gain):	0.057390	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999726	Status:	OK.
Std Error of Est:	0.000710		
Predicted MDL:	0.006795		
Predicted MQL:	0.022652		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00018	.000	.000	.00100	.000	1
S2	4.0000	3.9009	-.099	-2.48	.22486	.001	1
S3	12.500	12.165	-.335	-2.68	.69916	.003	1
S4	25.000	24.424	-.576	-2.30	1.4027	.003	1
S5	50.000	51.086	1.09	2.17	2.9328	.008	1
S1	2.0000	1.9242	-.076	-3.79	.11141	.001	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



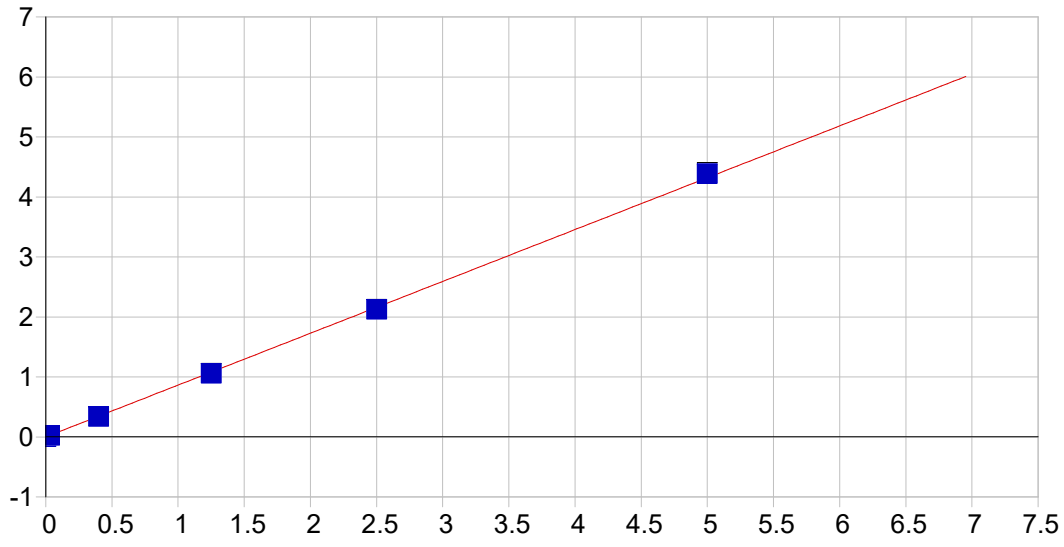
Cr 267.716 {126}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.139251	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999670	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.000444		
Predicted MQL:	0.001479		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.01000	.00978	-.000	-2.18	.00139	.000	1
S3	.50000	.52372	.024	4.74	.07298	.000	1
S4	1.0000	.99748	-.003	-.252	.13897	.000	1
S5	2.0000	1.9679	-.032	-1.61	.27415	.001	1
S2	.16000	.17113	.011	6.95	.02387	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



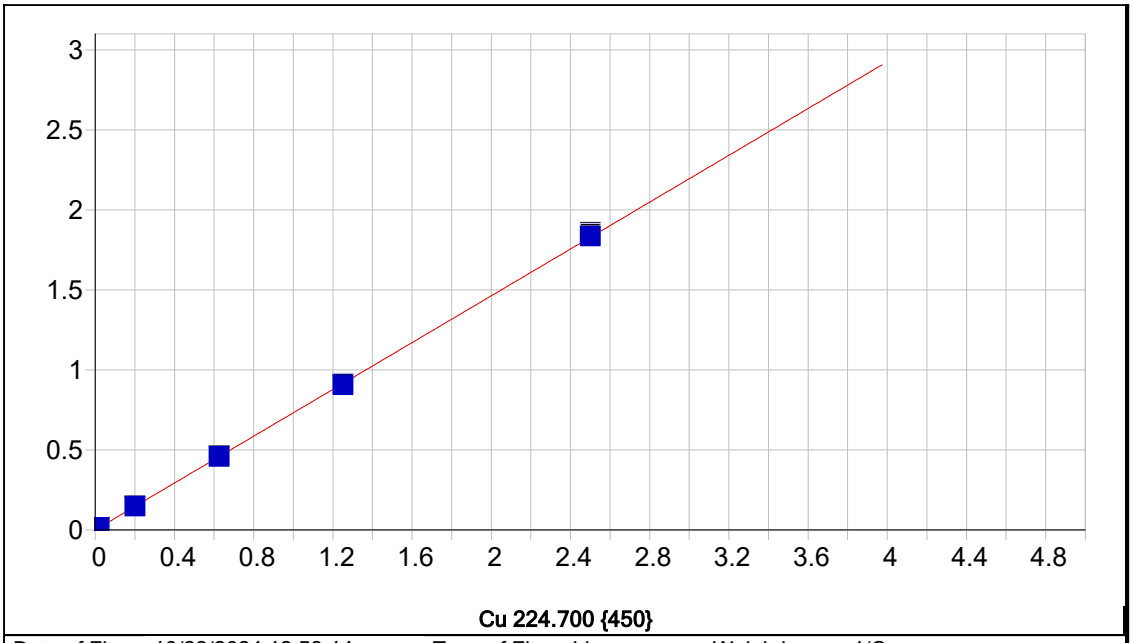
Co 228.616 {448}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000067	Re-Slope:	1.000000
A1 (Gain):	0.863862	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999850	Status:	OK.
Std Error of Est:	0.000304		
Predicted MDL:	0.000179		
Predicted MQL:	0.000596		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00006	.000	1
S1	.03000	.02866	-.001	-4.46	.02458	.000	1
S3	1.2500	1.2241	-.026	-2.08	1.0592	.002	1
S4	2.5000	2.4575	-.043	-1.70	2.1265	.001	1
S5	5.0000	5.0787	.079	1.57	4.3945	.015	1
S2	.40000	.39114	-.009	-2.21	.33841	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



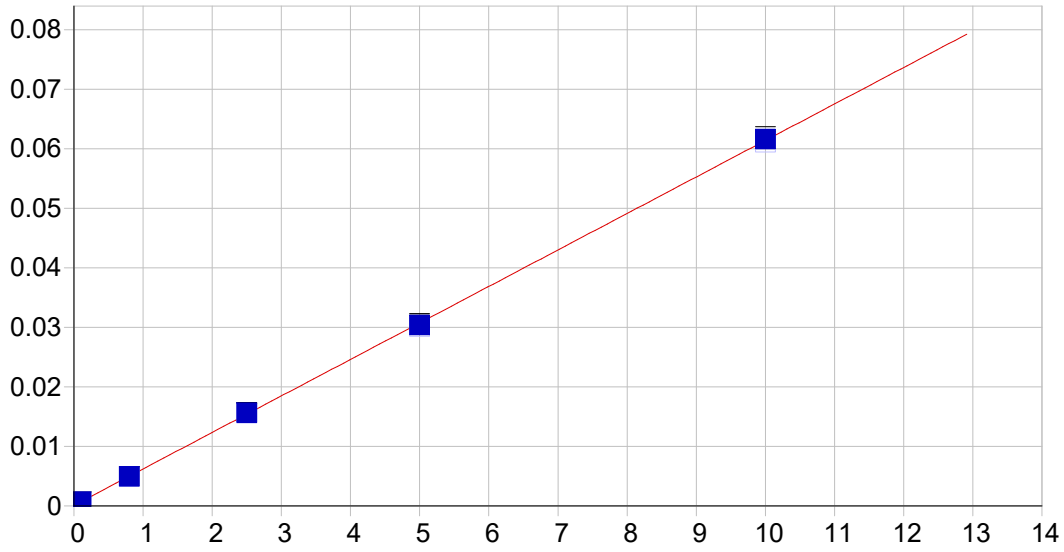
Cu 224.700 {450}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000453	Re-Slope:	1.000000
A1 (Gain):	0.731453	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000049		
Predicted MDL:	0.000363		
Predicted MQL:	0.001209		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00045	.000	1
S1	.02000	.02013	.000	.652	.01536	.000	1
S3	.62500	.62540	.000	.065	.46226	.001	1
S4	1.2500	1.2387	-.011	-.906	.91520	.001	1
S5	2.5000	2.5093	.009	.373	1.8533	.007	1
S2	.20000	.20147	.001	.733	.14921	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



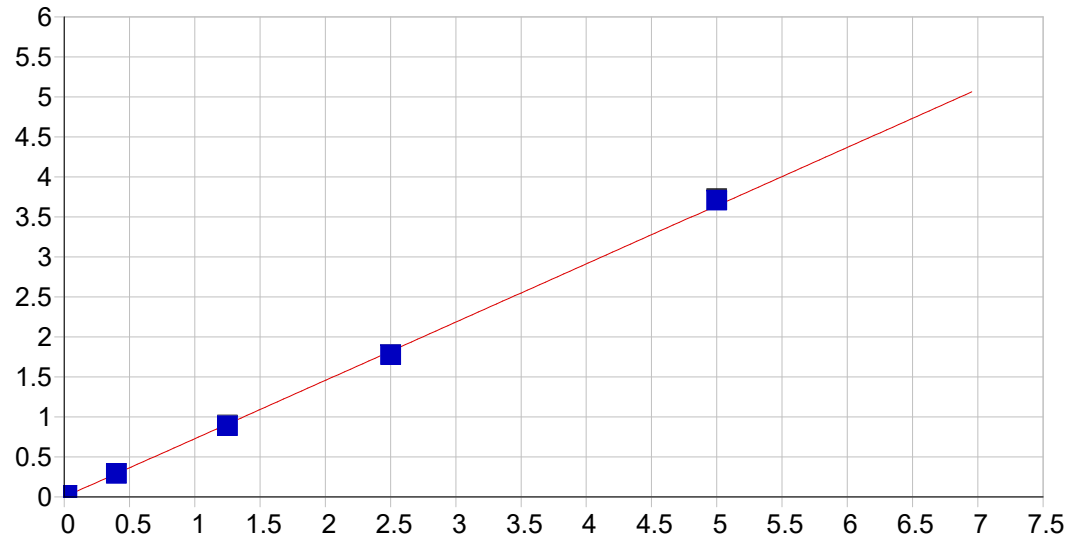
Fe 240.488 {140}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000086	Re-Slope:	1.000000
A1 (Gain):	0.006133	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.003813		
Predicted MQL:	0.012710		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00009	.000	1
S1	.10000	.09692	-.003	-3.08	.00067	.000	1
S3	2.5000	2.5400	.040	1.60	.01553	.000	1
S4	5.0000	4.9363	-.064	-1.27	.03010	.000	1
S5	10.000	10.033	.033	.330	.06109	.000	1
S2	.80000	.79372	-.006	-.785	.00491	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



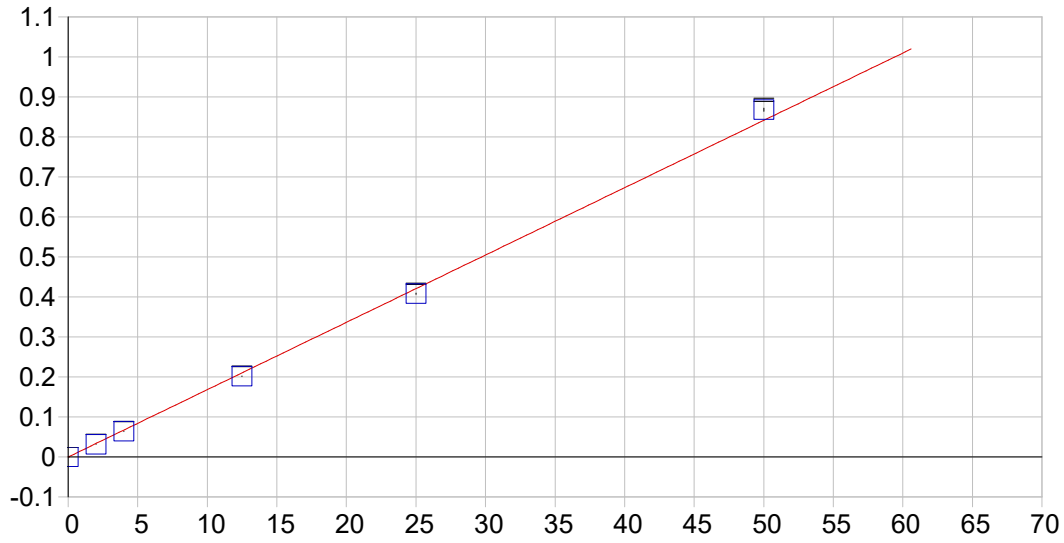
Mn 257.610 {131}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000076	Re-Slope:	1.000000
A1 (Gain):	0.728139	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999775	Status:	OK.
Std Error of Est:	0.000256		
Predicted MDL:	0.000235		
Predicted MQL:	0.000782		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00008	.000	1
S1	.02000	.01979	-.000	-1.07	.01449	.000	1
S3	1.2500	1.2198	-.030	-2.41	.88845	.006	1
S4	2.5000	2.4363	-.064	-2.55	1.7744	.000	1
S5	5.0000	5.0940	.094	1.88	3.7100	.013	1
S2	.40000	.40010	.000	.025	.29146	.001	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



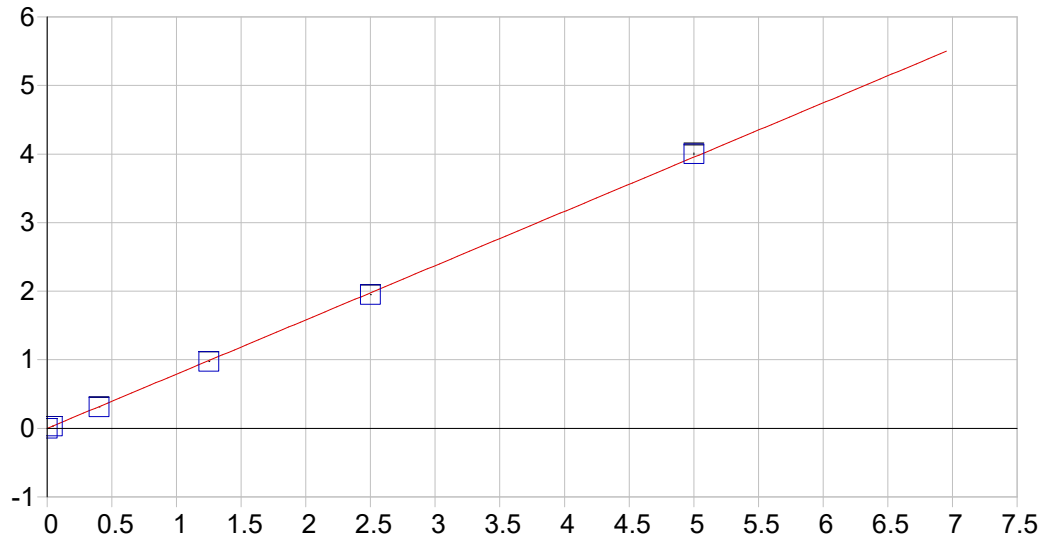
Mg 279.079 {121}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000147	Re-Slope:	1.000000
A1 (Gain):	0.016830	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999410	Status:	OK.
Std Error of Est:	0.000306		
Predicted MDL:	0.010562		
Predicted MQL:	0.035206		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00030	.000	.000	-.00014	.000	1
S2	4.0000	3.7978	-.202	-5.06	.06377	.000	1
S3	12.500	11.985	-.515	-4.12	.20156	.001	1
S4	25.000	24.258	-.742	-2.97	.40811	.002	1
S5	50.000	51.578	1.58	3.16	.86792	.004	1
S1	2.0000	1.8809	-.119	-5.95	.03151	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



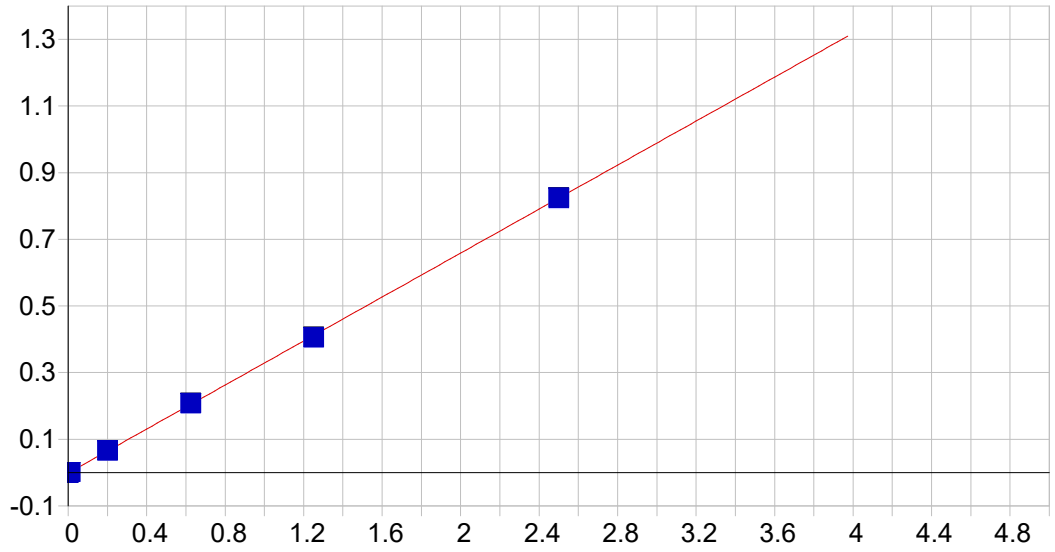
Ni 231.604 {446}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000337	Re-Slope:	1.000000
A1 (Gain):	0.790932	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000251		
Predicted MDL:	0.000237		
Predicted MQL:	0.000789		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00033	.000	1
S1	.04000	.03781	-.002	-5.48	.02957	.000	1
S3	1.2500	1.2315	-.019	-1.48	.97366	.002	1
S4	2.5000	2.4655	-.034	-1.38	1.9497	.002	1
S5	5.0000	5.0607	.061	1.21	4.0023	.014	1
S2	.40000	.39452	-.005	-1.37	.31170	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



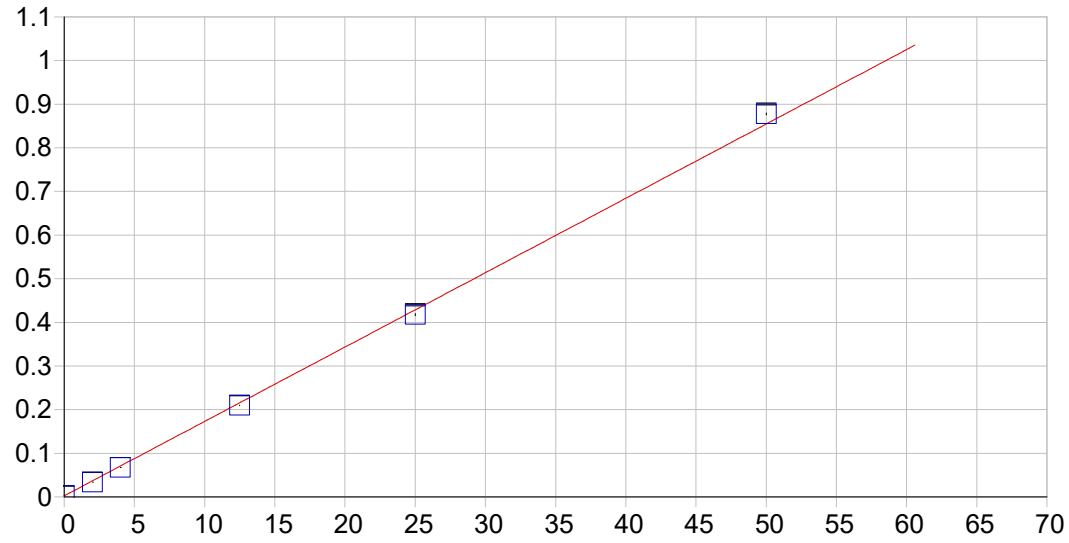
Ag 328.068 {103}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001253	Re-Slope:	1.000000
A1 (Gain):	0.330009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999958	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.000298		
Predicted MQL:	0.000994		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00125	.000	1
S1	.01000	.01004	.000	.377	.00204	.000	1
S3	.62500	.63410	.009	1.46	.20719	.000	1
S4	1.2500	1.2347	-.015	-1.22	.40458	.000	1
S5	2.5000	2.5026	.003	.104	.82135	.001	1
S2	.20000	.20354	.004	1.77	.06566	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



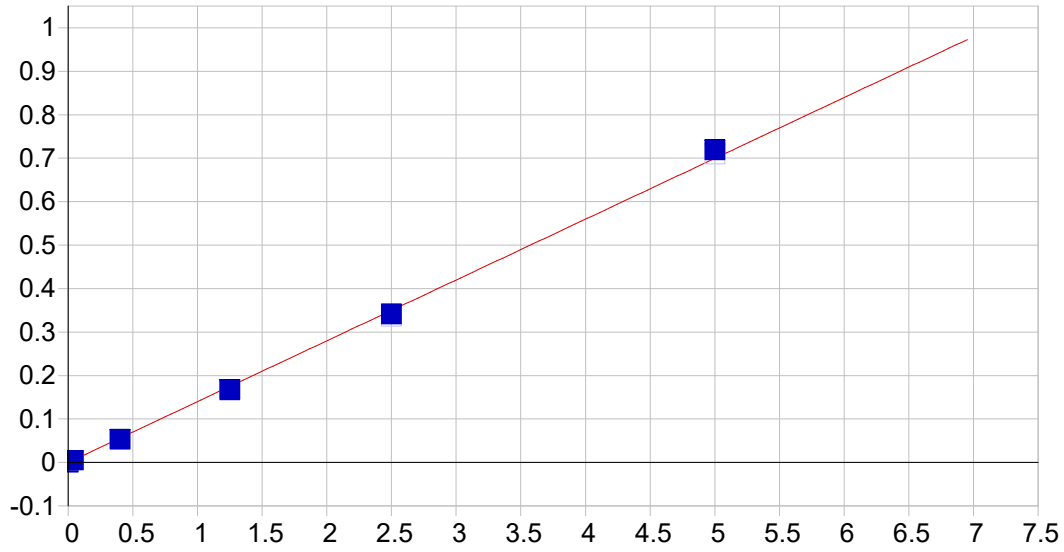
Na 589.592 { 57}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002627	Re-Slope:	1.000000
A1 (Gain):	0.017040	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999526	Status:	OK.
Std Error of Est:	0.000278		
Predicted MDL:	0.008489		
Predicted MQL:	0.028298		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00033	.000	.000	.00263	.000	1
S2	4.0000	3.8063	-.194	-4.84	.06749	.000	1
S3	12.500	12.150	-.350	-2.80	.20966	.001	1
S4	25.000	24.367	-.633	-2.53	.41783	.003	1
S5	50.000	51.358	1.36	2.72	.87775	.002	1
S1	2.0000	1.8184	-.182	-9.08	.03361	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



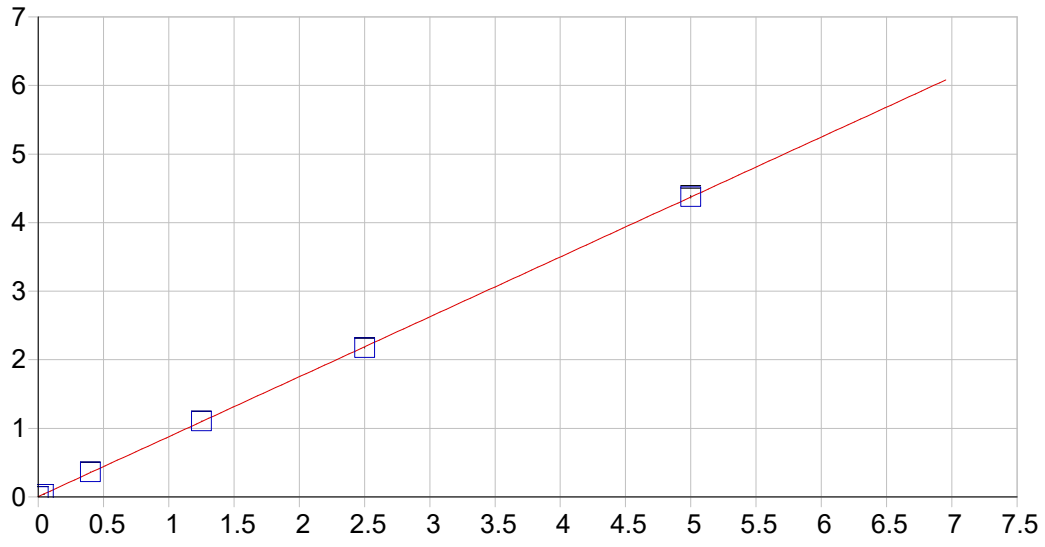
V 292.402 {115}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000009	Re-Slope:	1.000000
A1 (Gain):	0.139923	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999502	Status:	OK.
Std Error of Est:	0.000102		
Predicted MDL:	0.001304		
Predicted MQL:	0.004348		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00001	.000	1
S1	.04000	.03793	-.002	-5.16	.00511	.000	1
S3	1.2500	1.1977	-.052	-4.18	.16505	.001	1
S4	2.5000	2.4368	-.063	-2.53	.33587	.001	1
S5	5.0000	5.1389	.139	2.78	.70886	.001	1
S2	.40000	.37861	-.021	-5.35	.05217	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



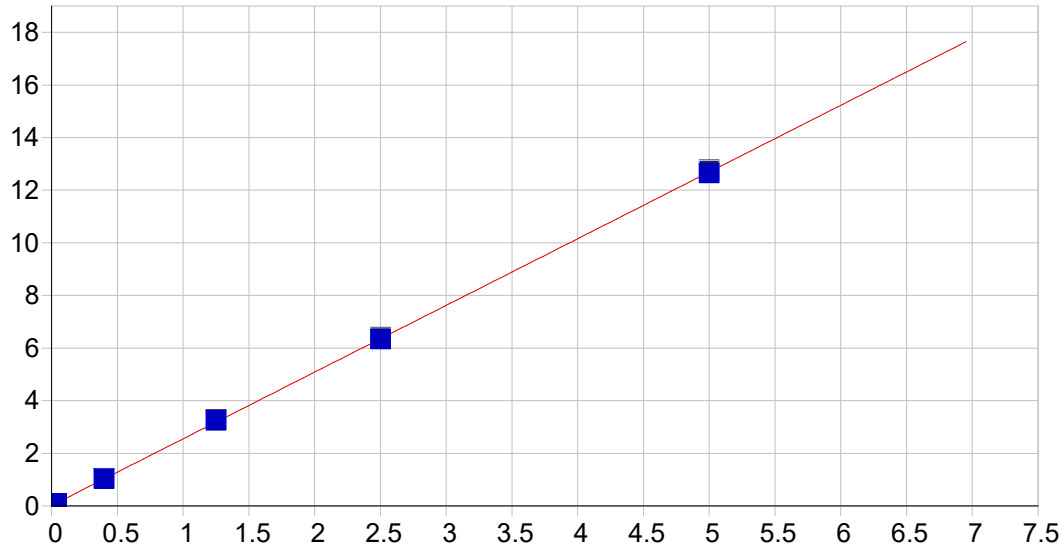
Zn 206.200 {464}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004466	Re-Slope:	1.000000
A1 (Gain):	0.873849	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000167		
Predicted MDL:	0.000189		
Predicted MQL:	0.000628		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00447	.000	1
S1	.04000	.03725	-.003	-6.88	.03702	.000	1
S3	1.2500	1.2595	.010	.763	1.1051	.003	1
S4	2.5000	2.4815	-.018	-.740	2.1729	.004	1
S5	5.0000	5.0026	.003	.052	4.3760	.019	1
S2	.40000	.40910	.009	2.27	.36195	.001	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



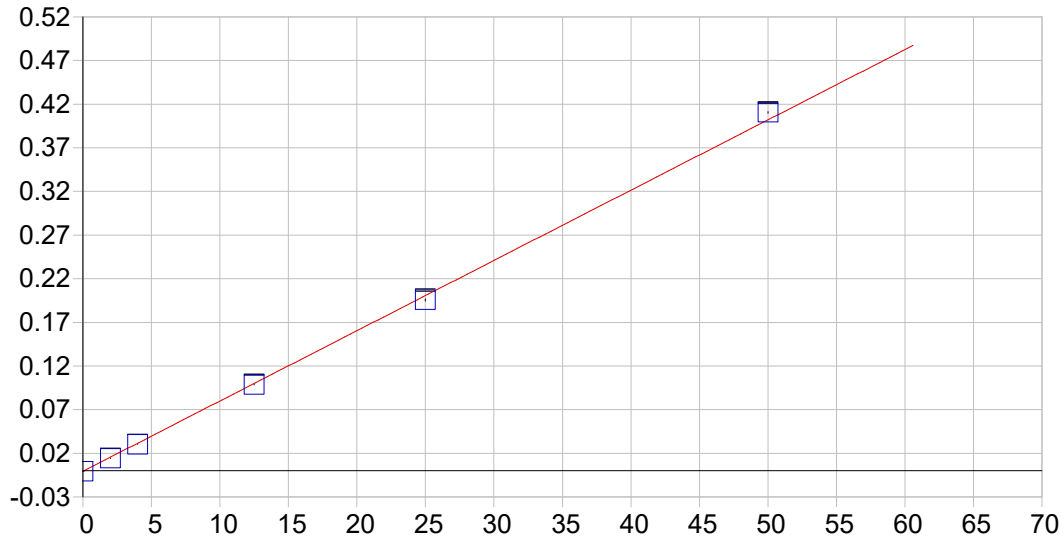
Zn 213.856 {158}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014312	Re-Slope:	1.000000
A1 (Gain):	2.535845	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000553		
Predicted MDL:	0.000266		
Predicted MQL:	0.000886		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01432	.001	1
S1	.04000	.03665	-.003	-8.38	.10796	.000	1
S3	1.2500	1.2732	.023	1.86	3.2651	.014	1
S4	2.5000	2.4933	-.007	-.270	6.3809	.024	1
S5	5.0000	4.9844	-.016	-.312	12.742	.028	1
S2	.40000	.40244	.002	.611	1.0419	.001	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



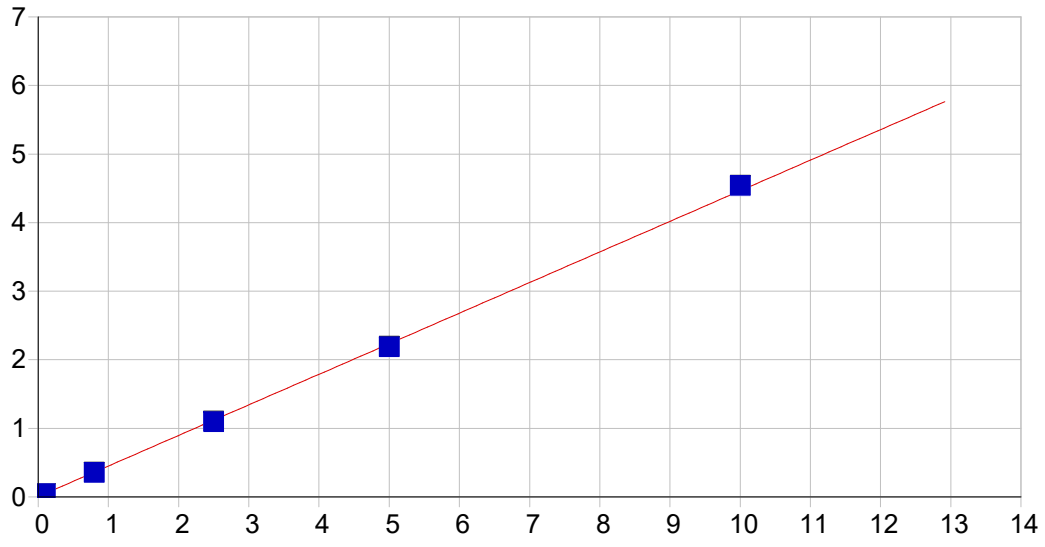
K 766.490 { 44}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000624	Re-Slope:	1.000000
A1 (Gain):	0.008053	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999695	Status:	OK.
Std Error of Est:	0.000105		
Predicted MDL:	0.021148		
Predicted MQL:	0.070494		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00026	.000	.000	-.00062	.000	1
S2	4.0000	3.8412	-.159	-3.97	.03031	.000	1
S3	12.500	12.357	-.143	-1.14	.09888	.001	1
S4	25.000	24.386	-.614	-2.46	.19574	.001	1
S5	50.000	51.066	1.07	2.13	.41059	.001	1
S1	2.0000	1.8500	-.150	-7.50	.01427	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



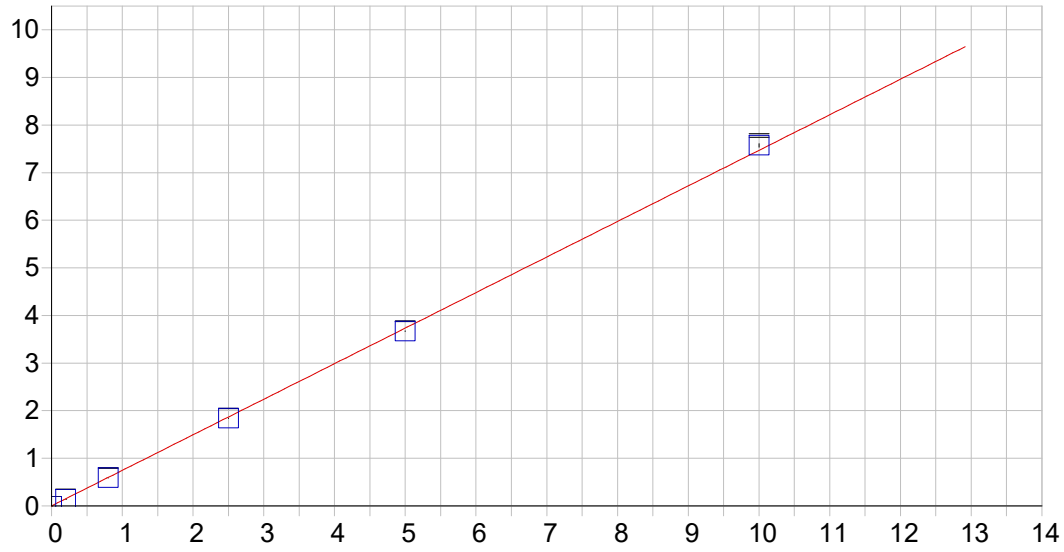
B 249.678 {135}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004001	Re-Slope:	1.000000
A1 (Gain):	0.446035	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999833	Status:	OK.
Std Error of Est:	0.000427		
Predicted MDL:	0.000561		
Predicted MQL:	0.001870		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00400	.000	1
S1	.10000	.09765	-.002	-2.35	.04736	.000	1
S3	2.5000	2.4465	-.053	-2.14	1.0931	.010	1
S4	5.0000	4.8990	-.101	-2.02	2.1847	.010	1
S5	10.000	10.166	.166	1.66	4.5299	.006	1
S2	.80000	.79039	-.010	-1.20	.35585	.001	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



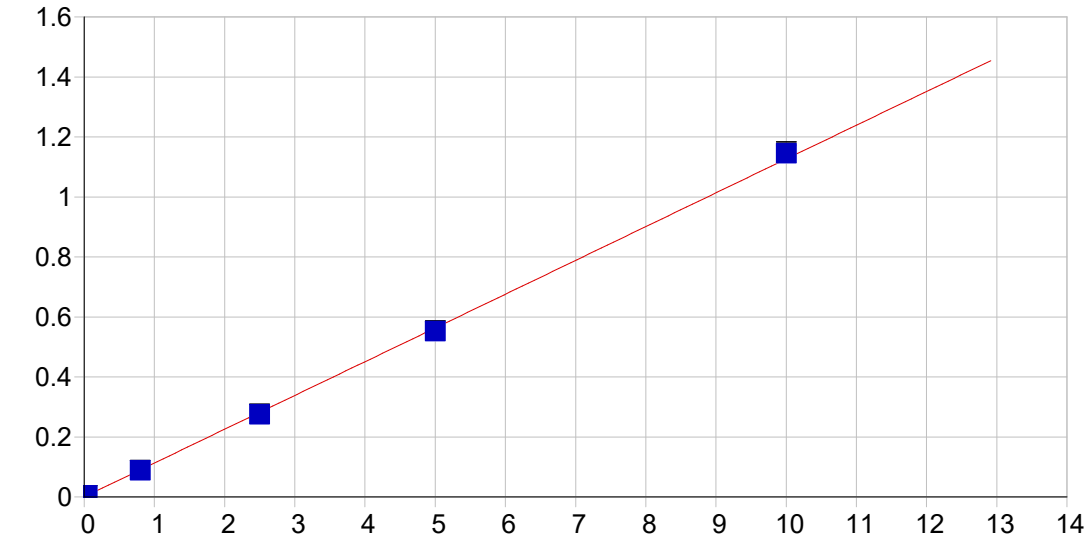
Mo 202.030 {467}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000102	Re-Slope:	1.000000
A1 (Gain):	0.746927	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999883	Status:	OK.
Std Error of Est:	0.000850		
Predicted MDL:	0.000232		
Predicted MQL:	0.000772		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00011	.000	1
S1	.20000	.19289	-.007	-3.56	.14418	.000	1
S3	2.5000	2.4621	-.038	-1.52	1.8391	.004	1
S4	5.0000	4.9173	-.083	-1.65	3.6730	.007	1
S5	10.000	10.140	.140	1.40	7.5736	.037	1
S2	.80000	.78811	-.012	-1.49	.58876	.001	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



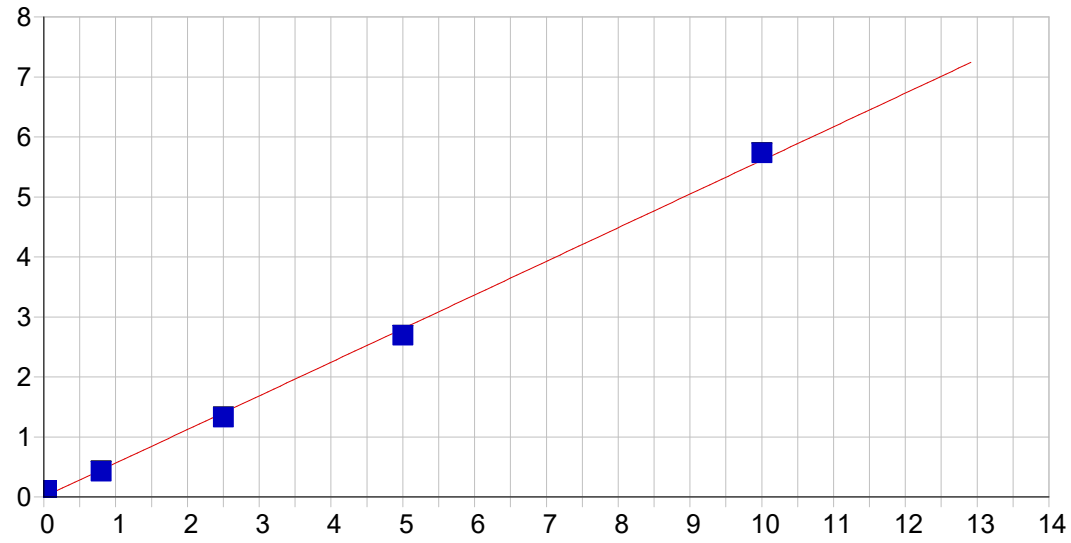
Sn 189.989 {478}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000273	Re-Slope:	1.000000
A1 (Gain):	0.112589	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999821	Status:	OK.
Std Error of Est:	0.000071		
Predicted MDL:	0.000701		
Predicted MQL:	0.002336		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00027	.000	1
S1	.04000	.03692	-.003	-7.71	.00442	.000	1
S3	2.5000	2.4451	-.055	-2.20	.27527	.001	1
S4	5.0000	4.9021	-.098	-1.96	.55162	.002	1
S5	10.000	10.171	.171	1.71	1.1443	.006	1
S2	.80000	.78495	-.015	-1.88	.08856	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



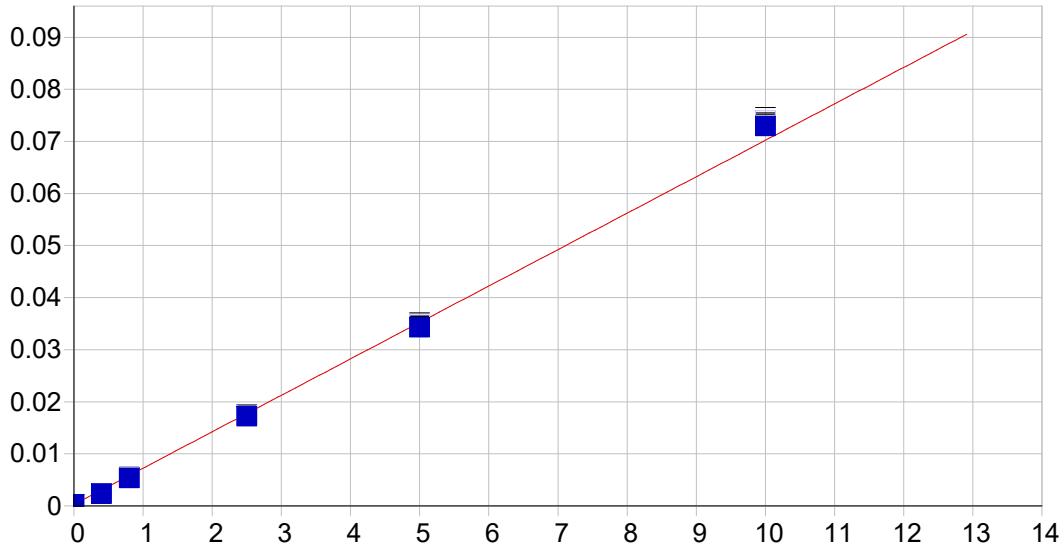
Ti 336.121 {100}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001554	Re-Slope:	1.000000
A1 (Gain):	0.560640	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.985284	Status:	OK.
Std Error of Est:	0.003223		
Predicted MDL:	0.000481		
Predicted MQL:	0.001604		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	.00148	.000	1
S1	.04000	.18554	.146	364.	.10556	.000	1
S3	2.5000	2.3705	-.129	-5.18	1.3301	.005	1
S4	5.0000	4.7998	-.200	-4.00	2.6915	.003	1
S5	10.000	10.222	.222	2.22	5.7306	.008	1
S2	.80000	.76176	-.038	-4.78	.42847	.001	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



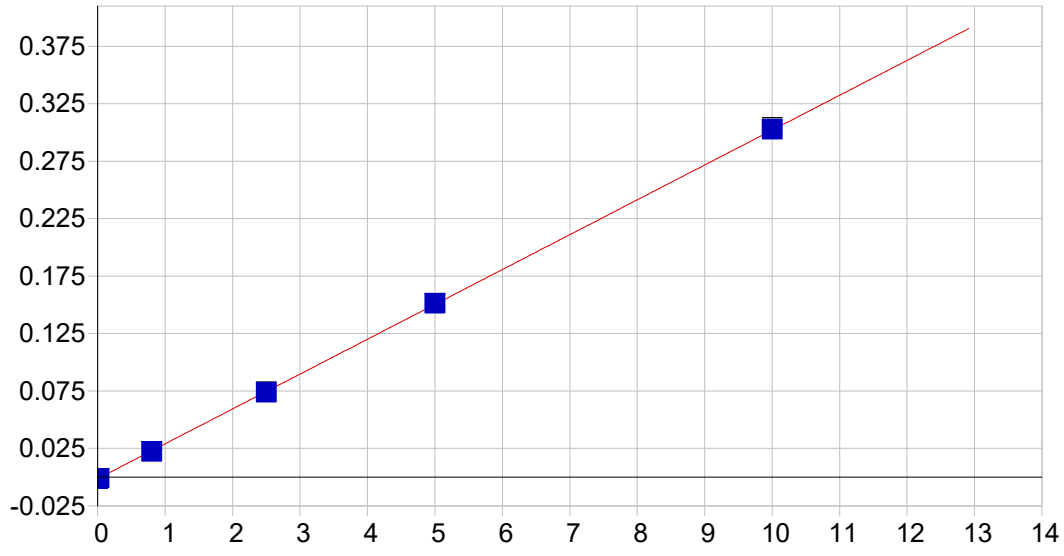
Si 288.158 {117}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000249	Re-Slope:	1.000000
A1 (Gain):	0.006997	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998583	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.005603		
Predicted MQL:	0.018676		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00015	.000	.000	.00025	.000	1
S1	.40000	.29541	-.105	-26.1	.00232	.000	1
S3	2.5000	2.4201	-.080	-3.20	.01744	.000	1
S4	5.0000	4.8646	-.135	-2.71	.03481	.000	1
S5	10.000	10.388	.388	3.88	.07398	.001	1
S2	.80000	.73077	-.069	-8.65	.00545	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



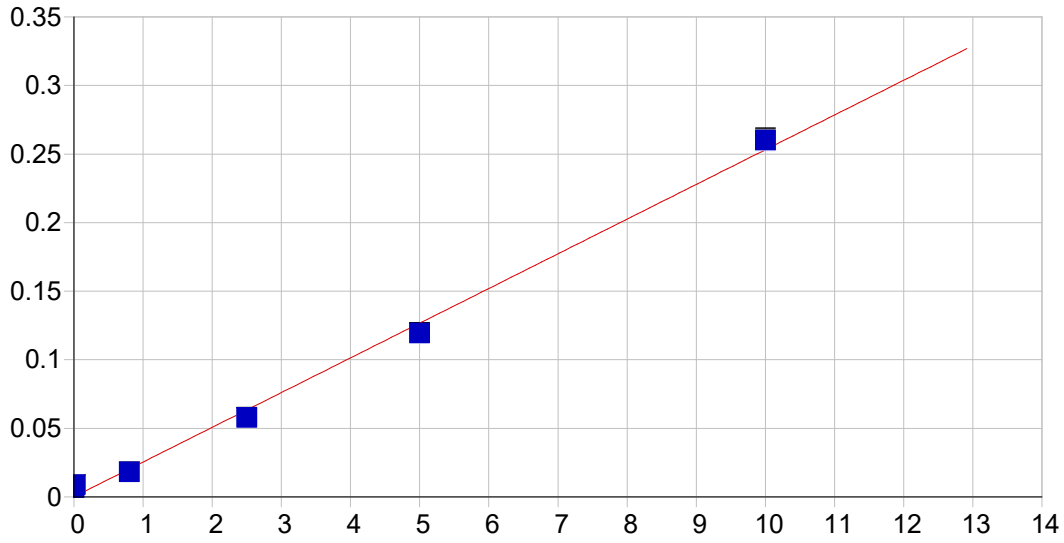
P 177.495 {490}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001307	Re-Slope:	1.000000
A1 (Gain):	0.030337	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.002453		
Predicted MQL:	0.008175		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00131	.000	1
S1	.02000	.01487	-.005	-25.7	-.00086	.000	1
S3	2.5000	2.4762	-.024	-.952	.07380	.000	1
S4	5.0000	5.0268	.027	.535	.15117	.000	1
S5	10.000	10.025	.025	.251	.30278	.001	1
S2	.80000	.77712	-.023	-2.86	.02227	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



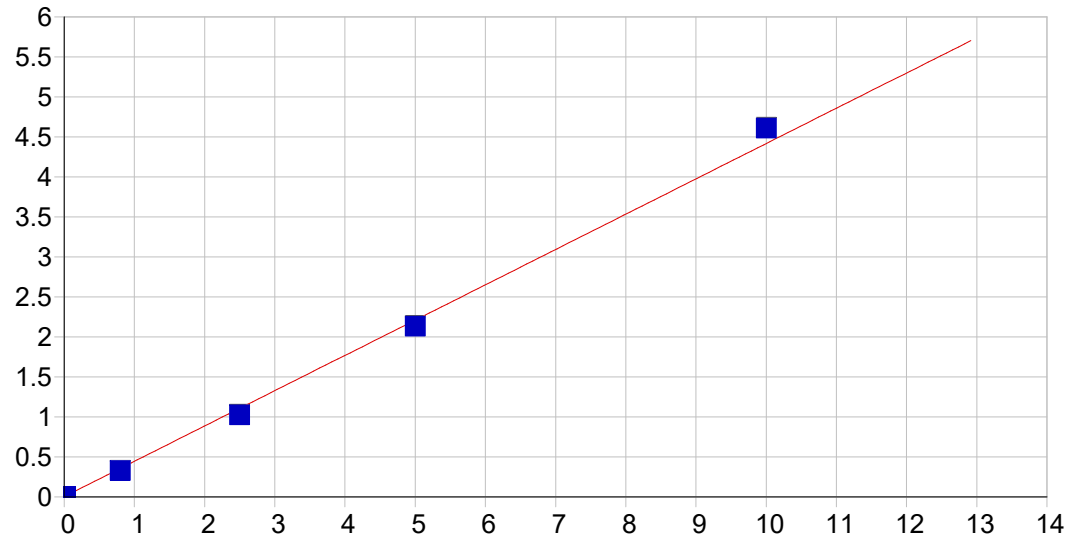
S 182.034 {485}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000151	Re-Slope:	1.000000
A1 (Gain):	0.025301	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.879686	Status:	OK.
Std Error of Est:	0.000320		
Predicted MDL:	0.002897		
Predicted MQL:	0.009657		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00032	-.000	.000	.00014	.000	1
S1	.02000	.34459	.325	1620.	.00885	.000	1
S3	2.5000	2.2770	-.223	-8.92	.05760	.000	1
S4	5.0000	4.7175	-.282	-5.65	.11918	.000	1
S5	10.000	10.278	.278	2.78	.25954	.002	1
S2	.80000	.71586	-.084	-10.5	.01821	.000	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



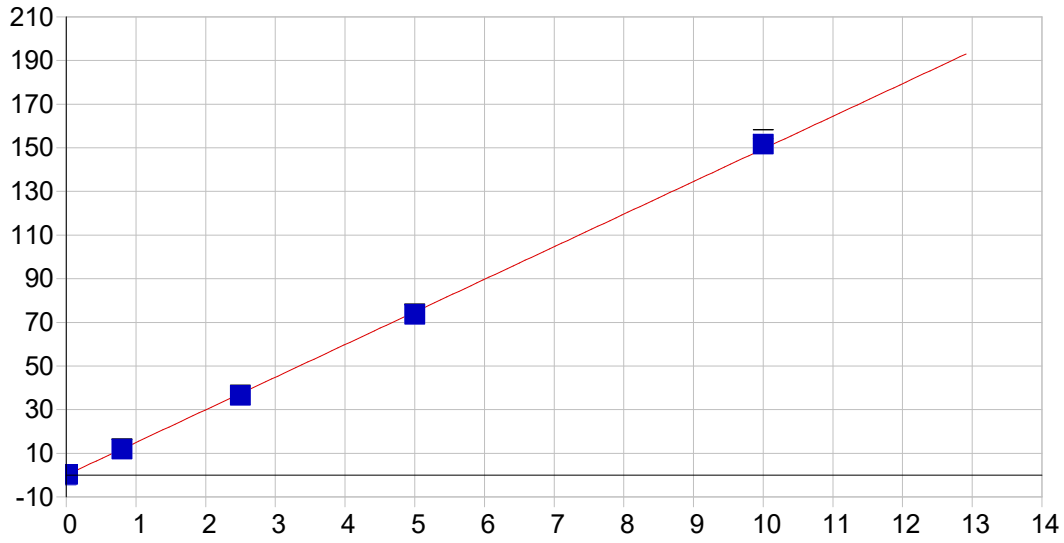
Li 670.784 { 50}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003779	Re-Slope:	1.000000
A1 (Gain):	0.441280	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998794	Status:	OK.
Std Error of Est:	0.000509		
Predicted MDL:	0.001735		
Predicted MQL:	0.005784		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00378	.000	1
S5	10.000	10.431	.431	4.31	4.6105	.008	1
S4	5.0000	4.8246	-.175	-3.51	2.1348	.007	1
S3	2.5000	2.3138	-.186	-7.45	1.0258	.007	1
S1	.02000	.01784	-.002	-10.8	.01181	.000	1
S2	.80000	.73328	-.067	-8.34	.32768	.002	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175



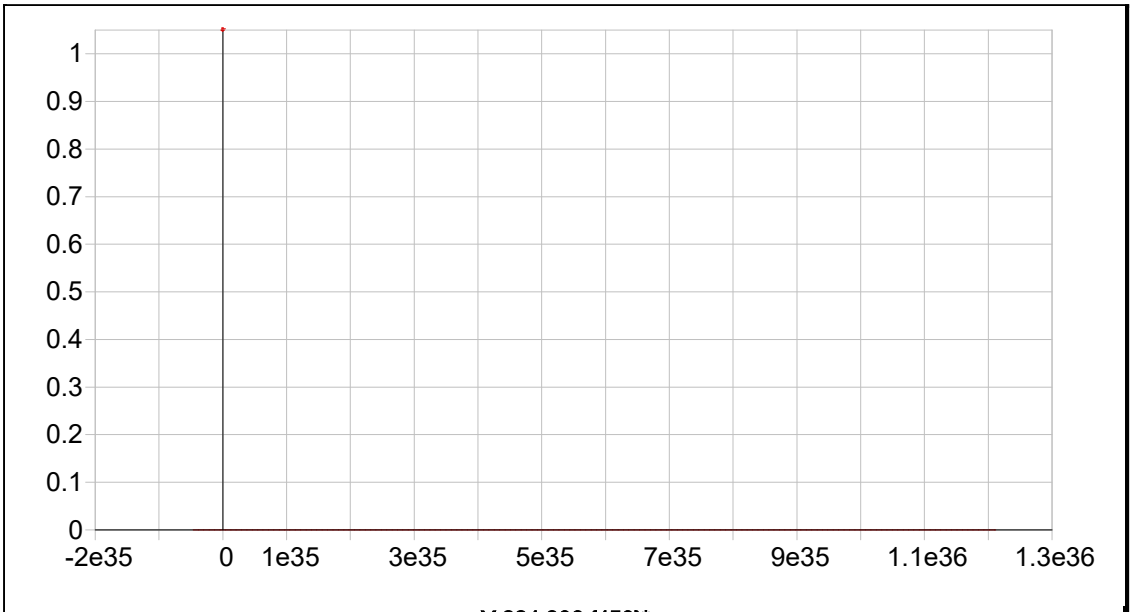
Sr 407.771 { 83}

Date of Fit:	10/28/2024 12:53:14	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000351	Re-Slope:	1.000000
A1 (Gain):	14.948816	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999875	Status:	OK.
Std Error of Est:	0.005543		
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	-.00033	.000	1
S1	.02000	.01933	-.001	-3.35	.29009	.002	1
S3	2.5000	2.4404	-.060	-2.38	36.519	.146	1
S4	5.0000	4.9246	-.075	-1.51	73.692	.167	1
S5	10.000	10.141	.141	1.41	151.74	2.03	1
S2	.80000	.79496	-.005	-.630	11.895	.046	1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

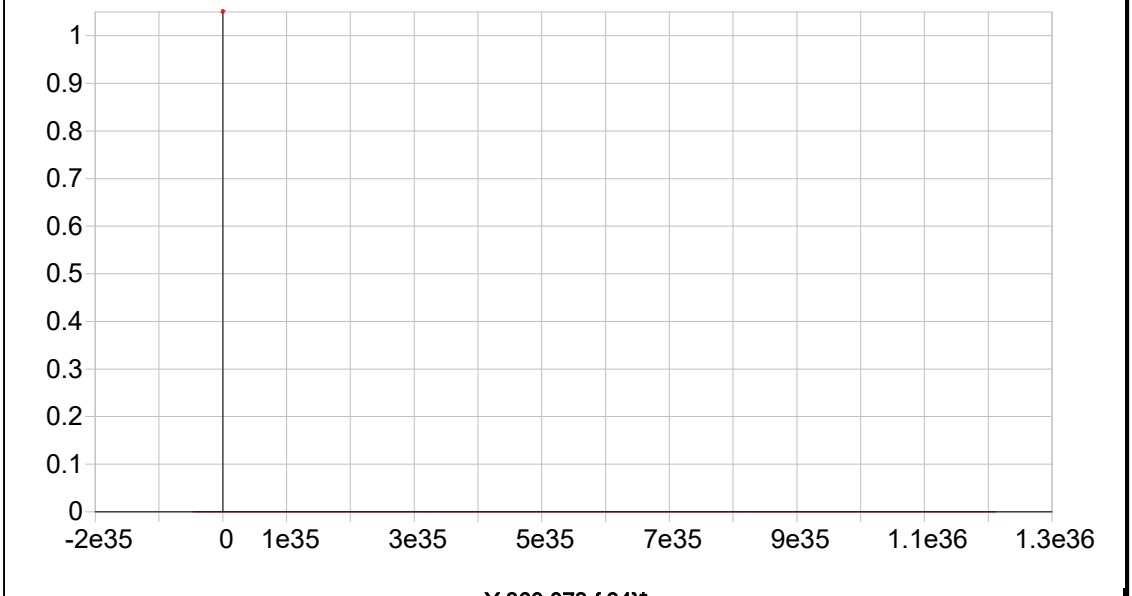


Y 224.306 {450}*

Date of Fit:	10/28/2024 12:53:14	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}*

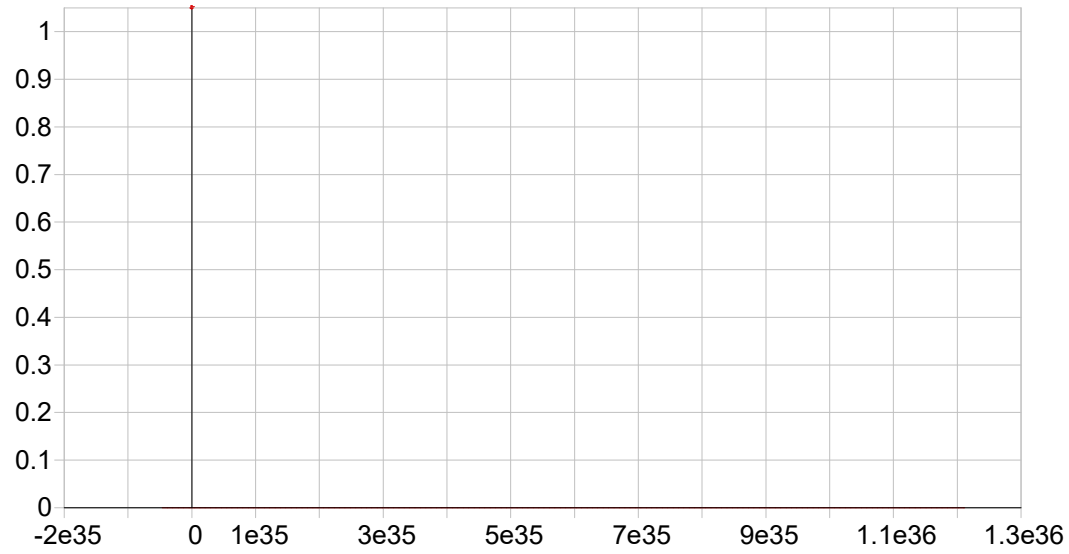
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

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



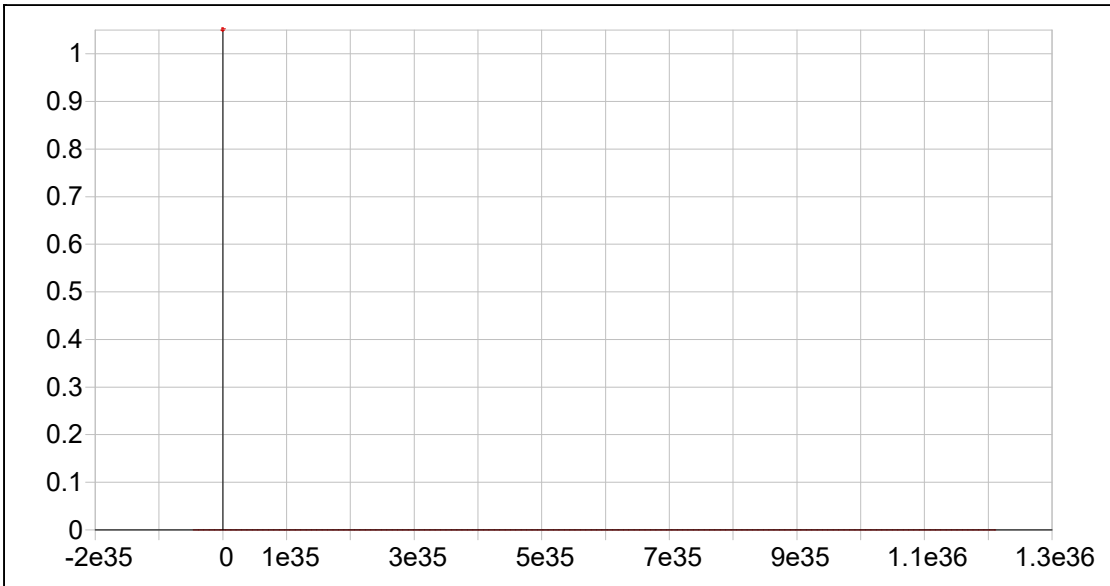
Y 371.030 { 91}*

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:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

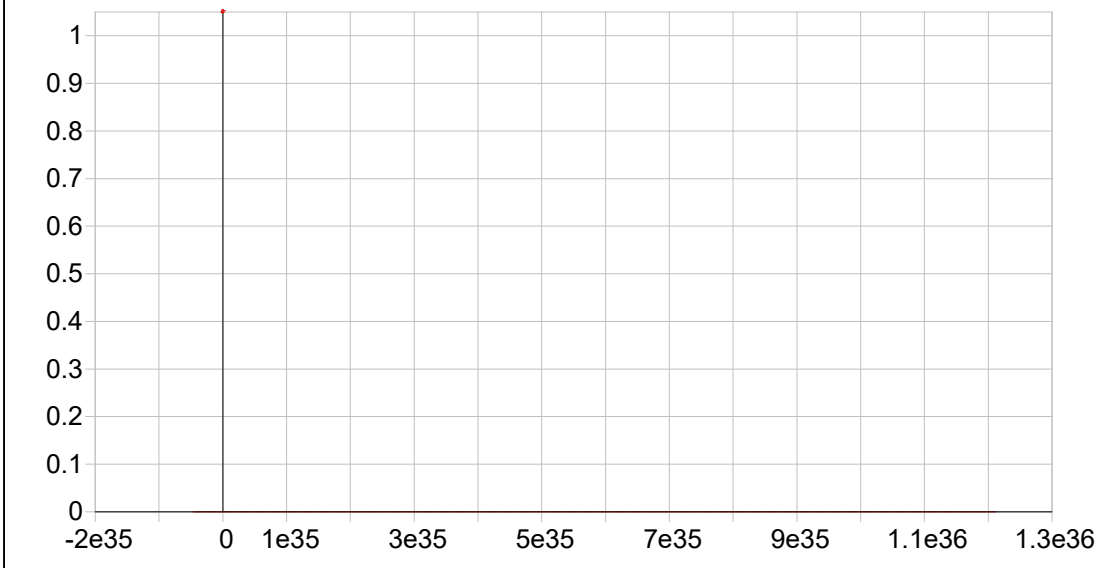


Y 224.306 {150}*

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:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

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:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S0 Acquired: 10/28/2024 11:58:55 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	-.00018	-.00013	-.00018	.00048	.00013	-.00009	-.00472	-.00068
Stddev	.00017	.00006	.00012	.00015	.00022	.00004	.00050	.00010
%RSD	94.740	50.347	64.164	31.004	166.89	41.728	10.623	15.185
#1	-.00028	-.00017	-.00019	.00064	-.00000	-.00012	-.00476	-.00078
#2	-.00027	-.00015	-.00029	.00038	.00039	-.00005	-.00520	-.00057
#3	.00002	-.00005	-.00006	.00040	.00001	-.00009	-.00420	-.00068

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	-.00010	.00100	.00003	-.00006	.00045	.00009	.00008	-.00014
Stddev	.00015	.00026	.00007	.00014	.00009	.00001	.00005	.00014
%RSD	146.29	26.144	213.60	212.62	19.581	17.117	69.936	98.439
#1	-.00027	.00096	.00004	-.00021	.00050	.00010	.00014	-.00024
#2	-.00005	.00127	-.00004	-.00003	.00051	.00007	.00005	-.00020
#3	.00001	.00076	.00009	.00005	.00035	.00009	.00004	.00002

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	-.00033	-.00125	.00263	.00001	.01432	-.00062	.00400	.00011
Stddev	.00006	.00005	.00009	.00010	.00081	.00012	.00028	.00008
%RSD	16.881	4.1745	3.2438	1003.4	5.6276	19.948	6.9212	71.361
#1	-.00039	-.00129	.00270	-.00010	.01466	-.00073	.00400	.00017
#2	-.00034	-.00128	.00267	.00004	.01340	-.00049	.00373	.00015
#3	-.00027	-.00119	.00254	.00009	.01490	-.00065	.00428	.00002

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	.00027	.00148	.00025	-.00131	.00014	.00378	-.00033
Stddev	.00003	.00014	.00002	.00006	.00009	.00031	.00034
%RSD	12.065	9.4798	8.6562	4.2319	66.540	8.0729	103.14
#1	.00026	.00131	.00023	-.00127	.00019	.00372	-.00009
#2	.00025	.00155	.00027	-.00128	.00021	.00411	-.00072
#3	.00031	.00156	.00026	-.00137	.00003	.00351	-.00018

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S0 Acquired: 10/28/2024 11:58:55 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	3307.4	67756.	13986.	2419.2	5364.6
Stddev	11.8	114.	44.	6.7	16.5
%RSD	.35793	.16802	.31644	.27799	.30808
#1	3295.0	67658.	13941.	2413.4	5351.4
#2	3308.5	67881.	13987.	2417.6	5359.2
#3	3318.6	67730.	14029.	2426.6	5383.1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S1 Acquired: 10/28/2024 12:03:21 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	.00095	.00220	.00237	.00204	.00880	.00832	.33849	.02206
Stddev	.00004	.00012	.00011	.00013	.00003	.00029	.00109	.00025
%RSD	4.0575	5.5262	4.6531	6.1312	.30256	3.4489	.32167	1.1540
#1	.00093	.00216	.00233	.00207	.00878	.00814	.33817	.02204
#2	.00099	.00234	.00227	.00191	.00881	.00817	.33760	.02181
#3	.00092	.00210	.00249	.00215	.00883	.00865	.33971	.02232

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	.01251	.11141	.00139	.02458	.01536	.00067	.01449	.03151
Stddev	.00018	.00064	.00006	.00023	.00021	.00001	.00007	.00028
%RSD	1.4453	.57077	4.4247	.93596	1.3941	.93029	.50611	.89844
#1	.01253	.11069	.00146	.02437	.01556	.00067	.01448	.03143
#2	.01232	.11168	.00138	.02456	.01540	.00068	.01442	.03128
#3	.01268	.11187	.00134	.02482	.01513	.00068	.01457	.03182

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	.02957	.00204	.03361	.00511	.10796	.01427	.04736	.14418
Stddev	.00015	.00004	.00007	.00008	.00043	.00016	.00018	.00025
%RSD	.51398	1.8586	.20355	1.4689	.40001	1.1034	.38480	.17498
#1	.02971	.00207	.03354	.00516	.10747	.01427	.04725	.14434
#2	.02941	.00205	.03361	.00502	.10830	.01443	.04727	.14389
#3	.02957	.00199	.03368	.00514	.10809	.01412	.04757	.14430

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	.00442	.10556	.00232	-.00086	.00885	.01181	.29009
Stddev	.00004	.00020	.00001	.00009	.00004	.00005	.00161
%RSD	.80334	.18546	.57412	10.123	.45707	.42929	.55555
#1	.00442	.10542	.00233	-.00089	.00887	.01178	.28986
#2	.00439	.10548	.00233	-.00092	.00880	.01178	.28861
#3	.00446	.10578	.00231	-.00076	.00887	.01187	.29180

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S1 Acquired: 10/28/2024 12:03:21 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	3322.6	70131.	14069.	2504.3	5278.4
Stddev	1.4	93.	82.	7.4	2.2
%RSD	.04260	.13249	.58558	.29560	.04092
#1	3324.2	70128.	14110.	2509.1	5280.6
#2	3321.6	70040.	14123.	2495.8	5278.4
#3	3322.1	70225.	13974.	2508.1	5276.3

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S2 Acquired: 10/28/2024 12:07:46 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	.04604	.05527	.18969	.07060	.14233	.11829	5.3671	.16274
Stddev	.00007	.00117	.00027	.00018	.00020	.00043	.0207	.00128
%RSD	.16047	2.1139	.14091	.26127	.13727	.35951	.38564	.78820
#1	.04600	.05659	.18956	.07076	.14242	.11873	5.3877	.16400
#2	.04599	.05485	.18950	.07065	.14248	.11788	5.3463	.16144
#3	.04612	.05437	.18999	.07040	.14211	.11826	5.3674	.16277

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	.90437	.22486	.02387	.33841	.14921	.00491	.29146	.06377
Stddev	.00182	.00062	.00009	.00035	.00038	.00002	.00102	.00042
%RSD	.20164	.27627	.37897	.10221	.25680	.30639	.35167	.65266
#1	.90538	.22438	.02384	.33874	.14931	.00490	.29155	.06331
#2	.90227	.22463	.02379	.33844	.14954	.00490	.29040	.06389
#3	.90546	.22556	.02397	.33805	.14879	.00493	.29245	.06411

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	.31170	.06566	.06749	.05217	1.0419	.03031	.35585	.58876
Stddev	.00047	.00014	.00015	.00010	.0008	.00022	.00136	.00061
%RSD	.15035	.21043	.22722	.19576	.07721	.73824	.38324	.10400
#1	.31204	.06561	.06733	.05216	1.0425	.03031	.35663	.58921
#2	.31116	.06581	.06750	.05228	1.0422	.03053	.35427	.58901
#3	.31189	.06555	.06763	.05207	1.0410	.03008	.35664	.58807

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	.08856	.42847	.00545	.02227	.01821	.32768	11.895
Stddev	.00023	.00104	.00008	.00012	.00004	.00234	.046
%RSD	.25845	.24242	1.3957	.53185	.21497	.71489	.38255
#1	.08882	.42783	.00537	.02239	.01824	.32827	11.940
#2	.08843	.42790	.00552	.02215	.01822	.32510	11.849
#3	.08843	.42967	.00545	.02226	.01817	.32967	11.897

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S2 Acquired: 10/28/2024 12:07:46 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	3189.4	66810.	13697.	2386.8	4982.5
Stddev	11.0	45.	68.	5.3	7.2
%RSD	.34568	.06700	.49684	.22198	.14363
#1	3194.1	66861.	13649.	2383.0	4981.9
#2	3176.7	66776.	13775.	2384.6	4975.6
#3	3197.2	66794.	13666.	2392.8	4989.9

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S3 Acquired: 10/28/2024 12:11:56 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	.14591	.16399	.59415	.22298	.45126	.37790	16.441	.50414
Stddev	.00031	.00411	.00099	.00112	.00139	.00069	.032	.00388
%RSD	.21555	2.5089	.16691	.50180	.30858	.18307	.19336	.76944
#1	.14569	.16780	.59429	.22207	.44979	.37712	16.405	.50432
#2	.14627	.15963	.59310	.22264	.45142	.37810	16.460	.50018
#3	.14577	.16455	.59507	.22422	.45256	.37846	16.460	.50793

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	2.8412	.69916	.07298	1.0592	.46226	.01553	.88845	.20156
Stddev	.0039	.00302	.00007	.0018	.00107	.00002	.00576	.00079
%RSD	.13876	.43190	.09379	.17106	.23074	.09833	.64813	.38981
#1	2.8414	.70003	.07306	1.0595	.46107	.01552	.88627	.20080
#2	2.8372	.69580	.07294	1.0572	.46260	.01555	.88410	.20152
#3	2.8451	.70165	.07295	1.0608	.46312	.01552	.89498	.20237

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	.97366	.20719	.20966	.16505	3.2651	.09888	1.0931	1.8391
Stddev	.00165	.00023	.00080	.00065	.0140	.00051	.0097	.0038
%RSD	.16901	.10882	.38138	.39519	.42986	.51805	.88485	.20503
#1	.97422	.20745	.21033	.16496	3.2582	.09886	1.0960	1.8364
#2	.97181	.20706	.20987	.16445	3.2812	.09940	1.0823	1.8375
#3	.97495	.20705	.20877	.16574	3.2557	.09838	1.1009	1.8434

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	.27527	1.3301	.01744	.07380	.05760	1.0258	36.519
Stddev	.00068	.0053	.00005	.00036	.00035	.0073	.146
%RSD	.24819	.39947	.29014	.48431	.61364	.70799	.39919
#1	.27585	1.3324	.01743	.07422	.05785	1.0305	36.531
#2	.27452	1.3240	.01750	.07361	.05719	1.0174	36.367
#3	.27545	1.3338	.01740	.07359	.05775	1.0294	36.657

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S3 Acquired: 10/28/2024 12:11:56 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	3082.4	64278.	13598.	2241.5	4750.1
Stddev	7.6	187.	75.	8.8	2.6
%RSD	.24665	.29037	.55193	.39175	.05489
#1	3091.1	64250.	13576.	2246.0	4752.7
#2	3077.7	64107.	13681.	2231.4	4749.9
#3	3078.3	64477.	13536.	2247.1	4747.5

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S4 Acquired: 10/28/2024 12:16:15 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	.29551	.33869	1.1805	.45257	.91226	.77215	33.355	1.0016
Stddev	.00072	.00900	.0011	.00160	.00038	.00226	.173	.0027
%RSD	.24510	2.6576	.09364	.35334	.04148	.29316	.51762	.27325
#1	.29624	.34904	1.1816	.45434	.91240	.77110	33.159	1.0035
#2	.29479	.33267	1.1805	.45122	.91183	.77060	33.484	1.0027
#3	.29552	.33437	1.1794	.45216	.91255	.77475	33.423	.99844

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	5.7275	1.4027	.13897	2.1265	.91520	.03010	1.7744	.40811
Stddev	.0063	.0033	.00029	.0010	.00062	.00031	.0004	.00175
%RSD	.11005	.23561	.20731	.04568	.06808	1.0320	.02114	.42927
#1	5.7342	1.4000	.13878	2.1276	.91542	.02996	1.7745	.40622
#2	5.7266	1.4017	.13930	2.1260	.91450	.02988	1.7740	.40845
#3	5.7217	1.4064	.13883	2.1259	.91568	.03045	1.7746	.40968

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	1.9497	.40458	.41783	.33587	6.3809	.19574	2.1847	3.6730
Stddev	.0017	.00040	.00254	.00103	.0244	.00139	.0104	.0069
%RSD	.08457	.10003	.60818	.30671	.38287	.70839	.47401	.18683
#1	1.9516	.40480	.41748	.33472	6.4088	.19577	2.1902	3.6798
#2	1.9490	.40412	.41549	.33617	6.3631	.19434	2.1912	3.6660
#3	1.9486	.40483	.42053	.33671	6.3709	.19712	2.1728	3.6732

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	.55162	2.6915	.03481	.15117	.11918	2.1348	73.692
Stddev	.00175	.0033	.00033	.00021	.00044	.0070	.167
%RSD	.31703	.12273	.94764	.13640	.36612	.32811	.22676
#1	.55350	2.6915	.03459	.15099	.11968	2.1394	73.499
#2	.55133	2.6882	.03466	.15112	.11889	2.1267	73.781
#3	.55004	2.6948	.03519	.15139	.11897	2.1382	73.795

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S4 Acquired: 10/28/2024 12:16:15 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	2951.2	64254.	13191.	2155.1	4478.7
Stddev	3.3	207.	23.	10.8	5.6
%RSD	.11079	.32258	.17710	.50224	.12404
#1	2948.7	64272.	13187.	2148.0	4472.3
#2	2954.9	64452.	13169.	2167.6	4481.5
#3	2950.0	64039.	13216.	2149.7	4482.3

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S5 Acquired: 10/28/2024 12:20:31 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	.62092	.78956	2.4349	.95969	1.9089	1.6520	70.348	2.0658
Stddev	.00365	.01604	.0089	.00581	.0099	.0017	.166	.0038
%RSD	.58847	2.0314	.36392	.60529	.51779	.10172	.23662	.18222
#1	.61723	.77212	2.4294	.95442	1.9002	1.6539	70.172	2.0618
#2	.62098	.79290	2.4301	.95873	1.9070	1.6509	70.369	2.0662
#3	.62454	.80367	2.4451	.96592	1.9197	1.6511	70.503	2.0693

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	11.795	2.9328	.27415	4.3945	1.8533	.06109	3.7100	.86792
Stddev	.038	.0076	.00113	.0147	.0073	.00044	.0128	.00418
%RSD	.32558	.25773	.41178	.33488	.39434	.71493	.34531	.48188
#1	11.770	2.9248	.27366	4.3833	1.8484	.06065	3.6994	.86326
#2	11.775	2.9399	.27334	4.3891	1.8499	.06152	3.7242	.87134
#3	11.839	2.9337	.27544	4.4112	1.8617	.06110	3.7063	.86915

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	4.0023	.82135	.87775	.70886	12.742	.41059	4.5299	7.5736
Stddev	.0139	.00062	.00205	.00140	.028	.00093	.0059	.0375
%RSD	.34776	.07565	.23322	.19790	.21825	.22584	.13106	.49507
#1	3.9939	.82064	.87750	.70747	12.713	.40985	4.5232	7.5416
#2	3.9946	.82160	.87992	.70882	12.744	.41163	4.5320	7.5644
#3	4.0184	.82180	.87585	.71028	12.769	.41030	4.5345	7.6148

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	1.1443	5.7306	.07398	.30278	.25954	4.6105	151.74
Stddev	.0055	.0084	.00065	.00147	.00150	.0084	2.03
%RSD	.48173	.14734	.87768	.48592	.57838	.18213	1.3373
#1	1.1395	5.7257	.07324	.30158	.25821	4.6085	149.40
#2	1.1430	5.7404	.07423	.30234	.25924	4.6197	152.96
#3	1.1503	5.7258	.07447	.30442	.26117	4.6033	152.86

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: S5 Acquired: 10/28/2024 12:20:31 Type: Cal
Method: NON EPA-6010-200.7(v2451) 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	2775.7	61692.	12375.	2000.6	4124.7
Stddev	6.6	106.	16.	6.1	10.1
%RSD	.23770	.17126	.12933	.30369	.24521
#1	2780.5	61814.	12393.	2004.3	4129.9
#2	2778.3	61632.	12370.	1993.6	4131.2
#3	2768.1	61630.	12363.	2004.0	4113.1

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICV01 Acquired: 10/28/2024 12:57:41 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.9750749	.9703004	.9833370	1.008754	1.021495	2.487071
Stddev	.0032620	.0210584	.0016399	.003734	.001444	.003494
%RSD	.3345340	2.170292	.1667651	.3701455	.1413655	.1404873
#1	.9776477	.9900997	.9844319	1.012664	1.022131	2.483047
#2	.9714061	.9481760	.9814517	1.005225	1.022511	2.489338
#3	.9761709	.9726257	.9841276	1.008374	1.019842	2.488827

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4834939	.4900776	.4937003	9.823692	.5322040	.5277479
Stddev	.0002178	.0018039	.0008914	.039945	.0011500	.0007588
%RSD	.0450447	.3680771	.1805584	.4066161	.2160886	.1437835
#1	.4836749	.4881233	.4939441	9.801076	.5311054	.5282191
#2	.4835547	.4904308	.4927124	9.800187	.5333994	.5268726
#3	.4832522	.4916787	.4944445	9.869814	.5321073	.5281521

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4969019	10.12710	.4913688	5.753602	.5311433	.2725654
Stddev	.0007640	.03907	.0015808	.037524	.0008296	.0003374
%RSD	.1537484	.3858008	.3217063	.6521839	.1561924	.1237808
#1	.4971159	10.12503	.4902917	5.749947	.5314471	.2723360
#2	.4960538	10.08911	.4906312	5.718040	.5302047	.2729528
#3	.4975361	10.16717	.4931835	5.792821	.5317783	.2724075

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.924821	.4846457	1.095686	10.52820	F 2.213339	2.576007
Stddev	.016445	.0021124	.002377	.00934	.007496	.003814
%RSD	.1656940	.4358695	.2169125	.0887557	.3386947	.1480581
#1	9.928821	.4853336	1.092951	10.53676	2.207808	2.578823
#2	9.938897	.4822751	1.097248	10.52960	2.210339	2.571666
#3	9.906745	.4863285	1.096860	10.51823	2.221871	2.577530

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICV01 Acquired: 10/28/2024 12:57:41 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	2.403838	2.271161	2.509332	F .0001668	F -.005031	F -.000305
Stddev	.013073	.000622	.005852	.0011315	.002613	.001191
%RSD	.5438348	.0273990	.2332179	678.3970	51.93316	390.0767
#1	2.414778	2.270477	2.513702	-.000264	-.005612	-.000600
#2	2.389360	2.271310	2.511612	-.000686	-.002177	.001005
#3	2.407376	2.271694	2.502683	.001450	-.007304	-.001321

Elem	Sr4077
Units	ppm
Avg	F -.008952
Stddev	.000063
%RSD	.6993798
#1	-.008924
#2	-.008907
#3	-.009023

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2917.637	62184.27	14011.37	2047.536	4648.962
Stddev	8.519	178.17	25.55	5.348	11.614
%RSD	.2919777	.2865232	.1823676	.2611931	.2498136
#1	2913.444	62096.65	13995.51	2046.977	4645.096
#2	2912.028	62066.87	13997.76	2042.489	4639.774
#3	2927.440	62389.28	14040.85	2053.141	4662.015

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: LLICV01 Acquired: 10/28/2024 13:04:00 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0188491	.0362193	.0110021	.0185536	.0507003	.1070000
Stddev	.0003772	.0012067	.0000550	.0002851	.0009981	.0035937
%RSD	2.000988	3.331786	.4996111	1.536581	1.968706	3.358572
#1	.0189681	.0372036	.0109602	.0184121	.0517524	.1067295
#2	.0184267	.0348730	.0109819	.0188818	.0505817	.1107213
#3	.0191524	.0365814	.0110644	.0183670	.0497668	.1035493

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0947313	.0056692	.0056571	1.962717	.0092008	.0299074
Stddev	.0003811	.0000076	.0000856	.005196	.0001363	.0001903
%RSD	.4023176	.1334711	1.513631	.2647515	1.481569	.6361680
#1	.0950432	.0056779	.0057540	1.967370	.0091430	.0301271
#2	.0948442	.0056660	.0055917	1.963670	.0093565	.0297997
#3	.0943065	.0056638	.0056255	1.957109	.0091029	.0297954

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215441	.1068550	.0191819	1.922795	.0398138	.0113222
Stddev	.0002145	.0010510	.0003168	.016025	.0002173	.0002423
%RSD	.9958042	.9836045	1.651356	.8334273	.5458878	2.140397
#1	.0216519	.1056440	.0188833	1.918732	.0396131	.0110929
#2	.0212970	.1075297	.0191482	1.909192	.0397837	.0115757
#3	.0216834	.1073912	.0195141	1.940460	.0400446	.0112980

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.845987	.0387065	.0387818	2.015065	.0952610	.2131447
Stddev	.005641	.0007260	.0002468	.021266	.0003377	.0014280
%RSD	.3055669	1.875598	.6362454	1.055345	.3545113	.6699665
#1	1.844301	.0385361	.0387147	2.034652	.0949255	.2147036
#2	1.852279	.0395025	.0385756	1.992446	.0956009	.2128308
#3	1.841382	.0380809	.0390552	2.018098	.0952566	.2118999

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: LLICV01 Acquired: 10/28/2024 13:04:00 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0391225	F .1879881	.3306520	F .0150839	F .3657283	F .0146574
Stddev	.0003211	.0002441	.0014127	.0001859	.0032579	.0008872
%RSD	.8206799	.1298234	.4272602	1.232388	.8907854	6.052918
#1	.0391724	.1882000	.3320865	.0152587	.3676022	.0139909
#2	.0387794	.1877212	.3292620	.0148886	.3676163	.0156644
#3	.0394157	.1880431	.3306075	.0151045	.3619665	.0143168

Elem	Sr4077
Units	ppm
Avg	.0193550
Stddev	.0000854
%RSD	.4414238
#1	.0192663
#2	.0194367
#3	.0193619

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2983.068	63836.34	13857.81	2106.772	4858.755
Stddev	17.144	270.11	37.81	19.811	23.041
%RSD	.5747162	.4231256	.2728777	.9403464	.4742222
#1	2965.754	63556.15	13821.99	2085.612	4833.506
#2	2983.413	64095.09	13854.11	2124.880	4864.114
#3	3000.037	63857.77	13897.35	2109.824	4878.645

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICB01 Acquired: 10/28/2024 13:08:19 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0005958	-.000205	-.000895	.0001075	.0000831	.0041552	-.001696
Stddev	.0005853	.001472	.000405	.0022972	.0004894	.0052081	.000444
%RSD	98.24712	716.7052	45.26567	2137.024	589.0294	125.3401	26.18893
#1	.0012396	.000337	-.000549	.0024263	.0006155	.0059199	-.002170
#2	.0004518	-.001871	-.000795	-.002167	-.000019	-.001706	-.001290
#3	.0000958	.000918	-.001341	.000063	-.000347	.008252	-.001628

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000027	-.000005	.0041106	-.000333	.0000041	-.001402	-.014953
Stddev	.000020	.000066	.0010856	.000465	.0001183	.000154	.002970
%RSD	75.16991	1456.949	26.40948	139.4647	2893.372	11.00800	19.86237
#1	-.000013	-.000006	.0041254	-.000831	.0001272	-.001304	-.014889
#2	-.000018	-.000069	.0051887	-.000257	-.000109	-.001579	-.012016
#3	-.000050	.000062	.0030177	.000089	-.000006	-.001322	-.017955

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000070	-.000896	.0000160	.0004681	-.086243	-.000784	-.004923
Stddev	.000162	.009114	.0000635	.0001473	.005606	.000918	.000102
%RSD	230.5303	1017.310	397.4537	31.46544	6.499664	117.0524	2.071432
#1	-.000178	-.007263	.0000516	.0003380	-.085910	-.000555	-.004878
#2	.000116	-.004968	-.000057	.0006280	-.092008	-.000002	-.005040
#3	-.000149	.009544	.000054	.0004384	-.080812	-.001794	-.004852

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.023669	-.003628	-.000049	.0019437	.0006727	-.013570	-.004819
Stddev	.005712	.000247	.000059	.0007522	.0001126	.005279	.000969
%RSD	24.13117	6.819428	120.9296	38.70260	16.73803	38.89820	20.10106
#1	-.022707	-.003913	-.000104	.0025461	.0007243	-.011294	-.003705
#2	-.018499	-.003505	-.000055	.0021844	.0005436	-.019605	-.005291
#3	-.029800	-.003466	.000013	.0011005	.0007503	-.009812	-.005462

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICB01 Acquired: 10/28/2024 13:08:19 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000638	-.002239	-.000036
Stddev	.002213	.000638	.000028
%RSD	346.9457	28.48905	76.32815
#1	.000373	-.001540	-.000004
#2	.000889	-.002790	-.000051
#3	-.003175	-.002386	-.000052

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3014.670	64432.48	13871.19	2135.647	4965.109
Stddev	12.667	80.23	43.56	9.334	11.486
%RSD	.4201840	.1245216	.3140104	.4370409	.2313248
#1	3002.430	64393.23	13891.23	2132.221	4955.538
#2	3013.855	64379.44	13901.13	2128.511	4961.945
#3	3027.725	64524.79	13821.22	2146.210	4977.845

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CRI01 Acquired: 10/28/2024 13:12:40 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0191425	.0348798	.0114607	.0175772	.0500226	.1024550
Stddev	.0007887	.0004035	.0003637	.0007000	.0008151	.0013190
%RSD	4.120391	1.156787	3.173697	3.982236	1.629436	1.287370
#1	.0199918	.0350621	.0111065	.0177782	.0491693	.1032067
#2	.0184330	.0351600	.0118332	.0181548	.0507932	.1009320
#3	.0190028	.0344173	.0114425	.0167988	.0501054	.1032262

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0936936	.0056416	.0055494	1.929316	.0091340	.0293373
Stddev	.0005639	.0000328	.0000314	.012594	.0000292	.0000685
%RSD	.6018620	.5812001	.5652794	.6527826	.3197731	.2334561
#1	.0933334	.0056740	.0055357	1.940709	.0091238	.0293732
#2	.0943435	.0056085	.0055272	1.915793	.0091113	.0292583
#3	.0934039	.0056423	.0055852	1.931446	.0091670	.0293805

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0210839	.0988210	.0190599	1.900590	.0391868	.0109539
Stddev	.0004102	.0023129	.0001109	.007705	.0002236	.0001568
%RSD	1.945486	2.340494	.5816967	.4053994	.5706932	1.431157
#1	.0209618	.0991949	.0190335	1.901968	.0394098	.0108484
#2	.0207486	.1009242	.0189646	1.907513	.0389625	.0111340
#3	.0215412	.0963440	.0191816	1.892289	.0391880	.0108793

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.776343	.0369260	.0373209	1.943575	.0937941	.2110790
Stddev	.013466	.0008799	.0003227	.008034	.0008318	.0001756
%RSD	.7580866	2.382859	.8646365	.4133502	.8868884	.0831863
#1	1.763889	.0360756	.0370007	1.945444	.0936299	.2111033
#2	1.790633	.0378327	.0376461	1.950509	.0930566	.2108925
#3	1.774507	.0368697	.0373160	1.934771	.0946958	.2112411

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CRI01 Acquired: 10/28/2024 13:12:40 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0374367	F .1864100	.3157014	.0143573	F .3520373	.0144223
Stddev	.0009105	.0007635	.0025051	.0013743	.0042824	.0025312
%RSD	2.432036	.4096007	.7935035	9.572194	1.216459	17.55068
#1	.0364974	.1862268	.3185897	.0153383	.3568949	.0146646
#2	.0374975	.1872485	.3141199	.0127865	.3488077	.0168237
#3	.0383153	.1857548	.3143947	.0149469	.3504092	.0117787

Elem	Sr4077
Units	ppm
Avg	.0191217
Stddev	.0001117
%RSD	.5841778
#1	.0190053
#2	.0192280
#3	.0191318

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3044.473	65865.57	13980.41	2178.667	4995.692
Stddev	3.130	243.58	42.78	24.931	2.494
%RSD	.1028110	.3698122	.3059747	1.144333	.0499324
#1	3048.065	65702.15	13931.02	2166.163	4993.337
#2	3043.022	65749.03	14005.52	2162.463	4998.305
#3	3042.331	66145.52	14004.70	2207.376	4995.432

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICSA01 Acquired: 10/28/2024 13:16:57 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0025868	.0076321	.0083598	-.009093	-.000999	250.5570
Stddev	.0024489	.0024906	.0023644	.000220	.001081	1.3106
%RSD	94.66724	32.63346	28.28343	2.419171	108.2082	.5230674
#1	.0052560	.0100974	.0065901	-.009338	-.001031	250.1698
#2	.0020606	.0076820	.0110451	-.009029	-.002063	252.0175
#3	.0004438	.0051169	.0074442	-.008913	.000098	249.4836

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022182	.0011565	.0069748	232.3425	.0565471	.0022914
Stddev	.0004238	.0000728	.0000619	1.1073	.0007828	.0003218
%RSD	19.10690	6.294548	.8873737	.4765871	1.384406	14.04597
#1	.0023476	.0010745	.0069389	232.8428	.0564575	.0019249
#2	.0025623	.0012134	.0070462	233.1113	.0573708	.0024210
#3	.0017448	.0011815	.0069392	231.0733	.0558128	.0025282

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008348	104.2888	.0057636	255.0281	.0030675	.0039906
Stddev	.000548	.5487	.0001034	1.6874	.0003479	.0005150
%RSD	6.560439	.5261664	1.793425	.6616689	11.34183	12.90678
#1	-.008955	104.9136	.0058432	255.3095	.0033829	.0045053
#2	-.007890	103.8853	.0058007	256.5572	.0026943	.0034752
#3	-.008199	104.0674	.0056468	253.2177	.0031252	.0039912

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.037452	.0066736	-.002068	-.007851	.0194755	.0002006
Stddev	.007877	.0009882	.000307	.020779	.0014175	.0007365
%RSD	21.03269	14.80725	14.82806	264.6502	7.278363	367.1441
#1	-.043836	.0072711	-.001789	-.016378	.0210870	-.000108
#2	-.039871	.0072168	-.002018	-.023010	.0189178	-.000332
#3	-.028649	.0055330	-.002396	.015834	.0184217	.001041

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICSA01 Acquired: 10/28/2024 13:16:57 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.001100	-.001061	-.001221	.0002898	-.016162	F .0468579
Stddev	.000402	.000255	.008138	.0032386	.003231	.0006486
%RSD	36.56889	24.08257	666.2786	1117.389	19.98818	1.384214
#1	-.001041	-.001030	.008050	-.001344	-.017473	.0461265
#2	-.000730	-.001330	-.004536	.004020	-.012482	.0473631
#3	-.001528	-.000822	-.007178	-.001807	-.018532	.0470842

Elem	Sr4077
Units	ppm
Avg	-.007098
Stddev	.000322
%RSD	4.541406
#1	-.007455
#2	-.007008
#3	-.006830

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2607.062	55476.90	13299.67	1839.745	3835.977
Stddev	12.025	183.92	62.48	10.925	10.199
%RSD	.4612566	.3315267	.4697998	.5938204	.2658759
#1	2617.253	55268.15	13275.74	1828.805	3845.119
#2	2610.135	55615.13	13252.70	1850.655	3837.836
#3	2593.798	55547.40	13370.59	1839.777	3824.977

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICSAB01 Acquired: 10/28/2024 13:21:20 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.1069883	.0973984	.0557259	.0398073	.6196282	244.6481
Stddev	.0045545	.0012145	.0005964	.0016091	.0028652	.9218
%RSD	4.257017	1.246901	1.070219	4.042246	.4624035	.3768026
#1	.1070010	.0960642	.0560703	.0396533	.6206383	245.4042
#2	.1115365	.0984395	.0550373	.0382808	.6163948	243.6212
#3	.1024275	.0976915	.0560702	.0414879	.6218516	244.9188

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4718094	.4736401	.9665004	226.0753	.5563609	.5130492
Stddev	.0005125	.0009816	.0013242	.6224	.0019545	.0005607
%RSD	.1086152	.2072352	.1370094	.2753236	.3512978	.1092934
#1	.4716642	.4725528	.9657449	226.0844	.5554746	.5134947
#2	.4713852	.4744608	.9680295	226.6931	.5586015	.5132335
#3	.4723788	.4739067	.9657270	225.4484	.5550065	.5124196

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4910139	103.1072	.4589601	247.1500	1.013714	.2116928
Stddev	.0011708	.2677	.0017486	1.0414	.001314	.0004337
%RSD	.2384520	.2596748	.3809852	.4213516	.1296431	.2048473
#1	.4919536	103.3308	.4604746	247.0894	1.013814	.2114466
#2	.4897023	103.1802	.4593592	248.2204	1.014975	.2114383
#3	.4913857	102.8105	.4570465	246.1403	1.012352	.2121935

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0306161	.4629954	1.063681	.0450548	.9216452	1.077579
Stddev	.0022118	.0005416	.004474	.0099175	.0010846	.001708
%RSD	7.224379	.1169730	.4205734	22.01213	.1176806	.1585074
#1	.0330870	.4635511	1.068846	.0469843	.9205785	1.076937
#2	.0288211	.4624692	1.061034	.0538658	.9216103	1.076284
#3	.0299401	.4629659	1.061163	.0343143	.9227468	1.079515

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICSAB01 Acquired: 10/28/2024 13:21:20 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	1.028386	.9412580	1.106227	F .0059058	F -.011417	F .0469990
Stddev	.001713	.0008418	.006922	.0026492	.005126	.0020072
%RSD	.1665708	.0894305	.6257418	44.85869	44.89695	4.270615
#1	1.028441	.9421671	1.112015	.0066348	-.014574	.0446967
#2	1.030070	.9405055	1.108106	.0029683	-.005503	.0483808
#3	1.026645	.9411015	1.098559	.0081142	-.014175	.0479195

Elem	Sr4077
Units	ppm
Avg	F -.007277
Stddev	.000388
%RSD	5.334494
#1	-.007496
#2	-.007507
#3	-.006829

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2567.396	55003.16	13371.91	1801.605	3801.757
Stddev	8.587	212.96	35.02	18.267	7.275
%RSD	.3344657	.3871723	.2619060	1.013909	.1913673
#1	2558.214	54779.65	13331.54	1781.643	3793.384
#2	2575.228	55203.70	13394.07	1817.485	3806.534
#3	2568.745	55026.13	13390.13	1805.688	3805.354

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICSADLX20 Acquired: 10/28/2024 13:27:17 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.002236	-.001298	.0009430	-.001467	.0003031	12.20368	-.001561
Stddev	.000829	.001970	.0012703	.000490	.0011314	.01797	.000276
%RSD	37.08476	151.7048	134.7069	33.39531	373.2403	.1472724	17.70462
#1	-.001474	-.002711	.0015832	-.001072	.0007059	12.18353	-.001654
#2	-.003119	.000952	.0017660	-.002016	-.000975	12.21807	-.001780
#3	-.002115	-.002136	-.000520	-.001314	.001178	12.20942	-.001251

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002080	.0002558	11.93587	.0019136	.0001018	-.001142	4.934362
Stddev	.0000168	.0000664	.04554	.0002156	.0001319	.000211	.056113
%RSD	8.069395	25.93909	.3815727	11.26824	129.5816	18.48377	1.137186
#1	.0001894	.0002438	11.88736	.0018447	.0001199	-.000906	4.878876
#2	.0002219	.0003274	11.97771	.0017408	.0002238	-.001208	4.991081
#3	.0002128	.0001963	11.94254	.0021553	-.000038	-.001313	4.933128

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002451	12.30964	.0003354	.0004998	-.083236	-.000047	-.004351
Stddev	.0001411	.08666	.0001630	.0002782	.008812	.001327	.000119
%RSD	57.55332	.7039778	48.60140	55.65333	10.58689	2794.284	2.740033
#1	.0003415	12.21672	.0005215	.0005368	-.090009	.000415	-.004231
#2	.0000832	12.38826	.0002668	.0007575	-.086427	-.001544	-.004469
#3	.0003106	12.32394	.0002179	.0002050	-.073273	.000986	-.004352

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.022781	-.004916	.0000035	.0005428	.0001737	-.014884	-.004025
Stddev	.026828	.000585	.0002182	.0005289	.0002328	.005440	.003411
%RSD	117.7616	11.90866	6165.200	97.43675	133.9917	36.54813	84.73747
#1	-.045778	-.005383	.0002406	.0011292	.0000161	-.010668	-.002463
#2	.006692	-.005107	-.000189	.0003973	.0004411	-.021024	-.007937
#3	-.029258	-.004259	-.000041	.0001019	.0000640	-.012960	-.001676

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICSADLX20 Acquired: 10/28/2024 13:27:17 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0029341	.0009247	-.000084
Stddev	.0005594	.0007484	.000061
%RSD	19.06637	80.93083	71.94647
#1	.0035744	.0009707	-.000037
#2	.0026873	.0016490	-.000153
#3	.0025405	.0001544	-.000064

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3021.673	65468.36	13924.48	2147.925	4834.990
Stddev	16.022	166.10	50.39	25.311	14.293
%RSD	.5302423	.2537118	.3618926	1.178386	.2956120
#1	3003.690	65445.76	13945.96	2150.769	4819.728
#2	3026.900	65314.71	13866.90	2121.312	4837.180
#3	3034.429	65644.60	13960.57	2171.694	4848.061

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICSABDLX20 Acquired: 10/28/2024 13:31:31 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0061483	.0040922	.0028089	.0017293	.0299494	12.12471	.0225888
Stddev	.0007123	.0005006	.0002562	.0012897	.0010275	.03070	.0005830
%RSD	11.58472	12.23349	9.120282	74.57903	3.430713	.2532415	2.580707
#1	.0054960	.0046162	.0028362	.0003854	.0298366	12.10861	.0220005
#2	.0060406	.0036188	.0025402	.0018455	.0310287	12.16012	.0225997
#3	.0069083	.0040417	.0030504	.0029570	.0289831	12.10540	.0231662

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0254095	.0480003	11.89189	.0286661	.0252387	.0250782	5.118562
Stddev	.0000644	.0001668	.04495	.0004625	.0001732	.0002075	.022244
%RSD	.2533606	.3474834	.3779791	1.613411	.6862490	.8273815	.4345694
#1	.0253551	.0478351	11.84895	.0290913	.0254382	.0250279	5.093500
#2	.0254806	.0479972	11.93861	.0287332	.0251508	.0253062	5.126227
#3	.0253930	.0481686	11.88810	.0281737	.0251271	.0249005	5.135960

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0243939	12.28834	.0509108	.0106588	-.091874	.0242249	.0510185
Stddev	.0001801	.03482	.0002432	.0001381	.006541	.0008065	.0004072
%RSD	.7382122	.2833377	.4777344	1.295354	7.119643	3.329379	.7980461
#1	.0242602	12.26105	.0507973	.0108150	-.089997	.0249748	.0513842
#2	.0245987	12.32755	.0507451	.0105529	-.099148	.0233717	.0510916
#3	.0243228	12.27642	.0511900	.0106085	-.086477	.0243283	.0505798

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.022013	.0436023	.0545590	.0511449	.0483334	.0251294	-.005134
Stddev	.012704	.0006207	.0003948	.0009920	.0006490	.0069247	.001261
%RSD	57.71370	1.423668	.7236823	1.939598	1.342760	27.55598	24.55486
#1	-.033458	.0431275	.0541443	.0501716	.0490816	.0331253	-.005233
#2	-.008343	.0443047	.0549305	.0521546	.0479225	.0211414	-.006342
#3	-.024237	.0433746	.0546022	.0511085	.0479961	.0211214	-.003827

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: ICSABDLX20 Acquired: 10/28/2024 13:31:31 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0011221	-.000368	-.000239
Stddev	.0024070	.000614	.000029
%RSD	214.5093	167.1325	12.18533
#1	.0037701	-.000967	-.000269
#2	.0005296	-.000396	-.000211
#3	-.000933	.000261	-.000237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3057.510	63606.38	14025.64	2134.225	4880.411
Stddev	9.137	240.77	45.88	12.004	8.786
%RSD	.2988404	.3785334	.3271247	.5624573	.1800326
#1	3052.446	63453.45	14031.53	2123.331	4877.424
#2	3052.026	63481.78	13977.11	2132.249	4873.507
#3	3068.058	63883.92	14068.30	2147.094	4890.301

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV01 Acquired: 10/28/2024 13:35:47 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.865777	4.618783	4.843612	4.924733	4.943745	9.646973	9.342215
Stddev	.005983	.024277	.004466	.019511	.016009	.018909	.047891
%RSD	.1229532	.5256176	.0922001	.3961915	.3238165	.1960137	.5126311
#1	4.863712	4.594895	4.842230	4.905186	4.940619	9.625783	9.397428
#2	4.861101	4.618023	4.848606	4.924805	4.929530	9.662129	9.311925
#3	4.872519	4.643431	4.840001	4.944208	4.961086	9.653007	9.317292

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2399601	2.425987	23.73258	.9693092	2.423621	1.240893	4.973762
Stddev	.0009341	.003592	.12749	.0009575	.000889	.002521	.048471
%RSD	.3892779	.1480654	.5371973	.0987833	.0366767	.2031207	.9745279
#1	.2402754	2.425780	23.59175	.9688556	2.424328	1.239568	4.924042
#2	.2406957	2.429679	23.84012	.9686627	2.423912	1.239311	4.976366
#3	.2389091	2.422504	23.76588	.9704092	2.422623	1.243799	5.020879

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.313152	23.79459	2.430986	1.259528	24.68199	2.389826	2.553542
Stddev	.007647	.19220	.002512	.000191	.08578	.008617	.006684
%RSD	.3305993	.8077280	.1033484	.0151794	.3475269	.3605554	.2617531
#1	2.305186	23.58522	2.431776	1.259550	24.65001	2.379959	2.545979
#2	2.320434	23.96301	2.433008	1.259708	24.61681	2.393646	2.558657
#3	2.313837	23.83554	2.428173	1.259327	24.77917	2.395872	2.555988

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.23026	4.725784	5.010648	4.816388	4.662418	5.032993	5.086968
Stddev	.10093	.019877	.013634	.009367	.007214	.047808	.018349
%RSD	.4000164	.4206132	.2720979	.1944855	.1547238	.9499001	.3607066
#1	25.17186	4.731743	5.003761	4.815745	4.654088	4.979832	5.095389
#2	25.17212	4.741999	5.001832	4.826061	4.666574	5.046689	5.099595
#3	25.34680	4.703608	5.026352	4.807359	4.666592	5.072460	5.065920

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV01 Acquired: 10/28/2024 13:35:47 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.679069	4.526976	4.758972
Stddev	.003448	.016225	.039271
%RSD	.0736929	.3583965	.8252092
#1	4.676893	4.542846	4.720629
#2	4.677269	4.510419	4.799110
#3	4.683044	4.527662	4.757176

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2883.079	60960.91	13295.23	2007.446	4434.940
Stddev	11.558	102.63	54.51	4.475	11.661
%RSD	.4008944	.1683580	.4099943	.2229445	.2629290
#1	2879.521	61051.46	13283.02	2011.451	4424.693
#2	2895.997	60849.43	13247.86	2002.615	4447.628
#3	2873.718	60981.84	13354.80	2008.270	4432.498

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB01 Acquired: 10/28/2024 13:39:57 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0004580	-.000237	.0002936	-.000561	.0005244	.0071311	-.002803
Stddev	.0020159	.001534	.0005954	.002093	.0006615	.0022856	.000522
%RSD	440.1369	647.4009	202.7902	373.1003	126.1495	32.05067	18.61385
#1	-.001869	.001473	.0009729	-.000591	.0011127	.0074707	-.002660
#2	.001651	-.000692	-.000137	.001547	-.000192	.0046947	-.003382
#3	.001592	-.001492	.000045	-.002639	.000652	.0092279	-.002368

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000224	.0000185	.0020664	-.000577	.0001778	-.001221	-.013076
Stddev	.0000564	.0000291	.0008181	.000139	.0000761	.000225	.002573
%RSD	251.8768	157.5936	39.59061	24.04360	42.82323	18.43596	19.67937
#1	.0000711	.0000520	.0030101	-.000546	.0001442	-.001191	-.013899
#2	.0000354	-.000001	.0016295	-.000728	.0001242	-.001013	-.015137
#3	-.000039	.000004	.0015595	-.000456	.0002650	-.001460	-.010192

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000182	.0017706	.0001194	.0005028	-.093565	-.000181	-.004750
Stddev	.000067	.0084415	.0000689	.0003220	.008306	.000529	.000067
%RSD	36.89531	476.7684	57.69720	64.03785	8.877714	291.8285	1.407788
#1	-.000120	-.004305	.0000415	.0002227	-.085491	-.000091	-.004728
#2	-.000253	.011410	.0001722	.0008546	-.102086	.000297	-.004698
#3	-.000173	-.001793	.0001446	.0004311	-.093119	-.000750	-.004825

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002860	-.001088	.0001326	.0014604	.0004379	-.014558	-.004189
Stddev	.018399	.000536	.0000664	.0005281	.0000905	.007313	.000351
%RSD	643.3375	49.26651	50.08935	36.15957	20.65832	50.23070	8.389620
#1	.017287	-.000795	.0000702	.0008507	.0004528	-.022328	-.004065
#2	-.007092	-.000763	.0001253	.0017725	.0003410	-.007810	-.004586
#3	-.018775	-.001707	.0002024	.0017581	.0005201	-.013538	-.003917

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB01 Acquired: 10/28/2024 13:39:57 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0007343	-.001236	.0000266
Stddev	.0025767	.000647	.0000195
%RSD	350.8956	52.39706	73.50368
#1	.0025022	-.000655	.0000482
#2	-.002222	-.001118	.0000210
#3	.001923	-.001934	.0000104

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3039.065	66397.21	14216.85	2152.417	5118.053
Stddev	2.763	119.41	76.42	13.535	3.732
%RSD	.0909003	.1798442	.5375444	.6288272	.0729250
#1	3041.927	66450.93	14136.09	2153.022	5121.897
#2	3038.852	66480.33	14226.44	2165.639	5117.818
#3	3036.414	66260.37	14288.03	2138.590	5114.444

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-02 Acquired: 10/28/2024 13:44:18 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0086621	-.007288	.0377965	.0008292	-.000603	38.09482
Stddev	.0010924	.001063	.0007789	.0021453	.000876	.23218
%RSD	12.61129	14.58077	2.060810	258.7133	145.2880	.6094811
#1	.0078002	-.007510	.0384969	.0030184	.000404	37.88388
#2	.0082955	-.008221	.0379349	.0007386	-.001193	38.34359
#3	.0098907	-.006131	.0369577	-.001269	-.001020	38.05697

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1710981	.0020441	.0012419	16.90516	.0754841	.0283184
Stddev	.0017983	.0000537	.0000167	.05228	.0005516	.0000277
%RSD	1.051011	2.626446	1.346020	.3092546	.7307956	.0976801
#1	.1696900	.0019853	.0012548	16.88164	.0750266	.0283051
#2	.1731238	.0020906	.0012230	16.96507	.0753291	.0283502
#3	.1704805	.0020565	.0012478	16.86878	.0760967	.0282999

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0660757	17.09562	.5664969	7.579431	.0428405	.0007878
Stddev	.0002109	.01494	.0024057	.032313	.0002304	.0001878
%RSD	.3191778	.0874003	.4246687	.4263242	.5378763	23.83930
#1	.0659555	17.09787	.5648696	7.578935	.0431066	.0007209
#2	.0659524	17.07968	.5692603	7.611989	.0427054	.0009999
#3	.0663192	17.10931	.5653609	7.547369	.0427096	.0006426

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	73.80527	.0541932	.0816521	5.404695	.0478738	.0212057
Stddev	.34813	.0010412	.0006010	.007141	.0004165	.0002847
%RSD	.4716836	1.921289	.7360485	.1321178	.8699913	1.342418
#1	73.40337	.0538148	.0822759	5.399884	.0478126	.0208770
#2	73.99937	.0553708	.0810769	5.401302	.0483175	.0213657
#3	74.01308	.0533942	.0816034	5.412900	.0474912	.0213743

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-02 Acquired: 10/28/2024 13:44:18 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0004135	.1686512	F 57.12958	1.276684	F 26.81188	.0159396
Stddev	.0007726	.0017868	.13360	.004122	.06902	.0011764
%RSD	186.8458	1.059472	.2338568	.3228755	.2574188	7.380397
#1	.0012275	.1672056	57.26292	1.272350	26.88400	.0172922
#2	.0003228	.1706489	56.99572	1.280556	26.74645	.0151546
#3	-.000310	.1680992	57.13011	1.277145	26.80520	.0153720

Elem	Sr4077
Units	ppm
Avg	.2555307
Stddev	.0026173
%RSD	1.024258
#1	.2528527
#2	.2580827
#3	.2556567

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3004.388	65345.51	15197.23	2109.700	4486.853
Stddev	4.458	156.16	82.89	9.328	8.105
%RSD	.1483739	.2389742	.5454276	.4421579	.1806305
#1	3002.004	65166.82	15225.51	2098.996	4485.594
#2	3009.531	65455.82	15103.90	2114.010	4495.513
#3	3001.630	65413.89	15262.28	2116.094	4479.451

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-03 Acquired: 10/28/2024 13:48:32 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0158632	-.007359	.0735545	-.000888	-.000620	75.81799
Stddev	.0020782	.001036	.0005225	.001007	.001382	.11896
%RSD	13.10090	14.08246	.7103928	113.4133	222.9360	.1569028
#1	.0180654	-.008433	.0738651	-.000636	.000332	75.70180
#2	.0155880	-.007279	.0729513	-.000031	.000013	75.93954
#3	.0139364	-.006365	.0738472	-.001997	-.002205	75.81264

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3020475	.0049372	.0030958	35.14340	.0629703	.0251031
Stddev	.0002385	.0000717	.0000975	.03192	.0004506	.0000524
%RSD	.0789669	1.451871	3.148416	.0908253	.7155757	.2088264
#1	.3017747	.0048650	.0031593	35.11884	.0626951	.0250449
#2	.3021514	.0049381	.0029836	35.13188	.0627255	.0251465
#3	.3022165	.0050084	.0031446	35.17948	.0634903	.0251181

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0419467	36.96366	.8602197	15.94338	.0425479	.0011138
Stddev	.0002801	.07776	.0009846	.01460	.0001517	.0002909
%RSD	.6678341	.2103815	.1144562	.0915464	.3564726	26.11347
#1	.0416268	36.88694	.8594101	15.96024	.0426861	.0010233
#2	.0420647	36.96163	.8599333	15.93490	.0423856	.0008790
#3	.0421485	37.04243	.8613157	15.93501	.0425718	.0014392

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	111.3649	.0674530	.1480104	4.985232	.0946396	.0206077
Stddev	.4869	.0010763	.0004647	.012449	.0008441	.0001460
%RSD	.4372312	1.595579	.3139574	.2497203	.8919308	.7084311
#1	111.8348	.0678431	.1481441	4.990963	.0937097	.0204502
#2	111.3974	.0662361	.1474936	4.970949	.0948518	.0206344
#3	110.8625	.0682798	.1483937	4.993784	.0953574	.0207384

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-03 Acquired: 10/28/2024 13:48:32 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.002228	.1422223	F 100.2385	.5975794	F 31.15849	.0339042
Stddev	.000282	.0005072	.2801	.0013642	.06625	.0016506
%RSD	12.67369	.3566199	.2794274	.2282807	.2126355	4.868419
#1	-.002359	.1420241	100.0257	.5970000	31.20952	.0357569
#2	-.002420	.1418442	100.1341	.5991376	31.08361	.0333653
#3	-.001903	.1427987	100.5558	.5966006	31.18232	.0325904

Elem	Sr4077
Units	ppm
Avg	.4096409
Stddev	.0007631
%RSD	.1862755
#1	.4088422
#2	.4103624
#3	.4097182

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3099.708	67400.88	15432.79	2200.603	4421.504
Stddev	10.040	156.80	28.27	10.029	8.300
%RSD	.3238917	.2326352	.1831503	.4557565	.1877249
#1	3109.872	67252.77	15400.17	2189.316	4431.077
#2	3089.798	67565.12	15450.21	2204.000	4416.319
#3	3099.454	67384.74	15447.98	2208.493	4417.116

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04 Acquired: 10/28/2024 13:52:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0029980	-.006455	.0325037	.0000592	.0004620	25.96642
Stddev	.0021491	.001272	.0006443	.0004218	.0012128	.02543
%RSD	71.68420	19.70238	1.982253	712.0321	262.5299	.0979277
#1	.0034687	-.007569	.0329282	-.000384	-.000564	25.94642
#2	.0048728	-.005069	.0328205	.000455	.000150	25.99504
#3	.0006526	-.006725	.0317623	.000107	.001800	25.95781

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1929109	.0022271	.0009902	18.16655	.0301751	.0103581
Stddev	.0007556	.0000457	.0000487	.08566	.0004628	.0001350
%RSD	.3916724	2.053085	4.916015	.4715039	1.533771	1.302819
#1	.1926058	.0022201	.0009451	18.11913	.0306862	.0104111
#2	.1937713	.0022760	.0009836	18.26543	.0300548	.0104585
#3	.1923555	.0021853	.0010418	18.11509	.0297843	.0102047

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223214	14.92096	.3840394	6.752035	.0188937	.0004852
Stddev	.0002638	.06510	.0014742	.046950	.0000945	.0001824
%RSD	1.181850	.4362806	.3838759	.6953531	.5002849	37.58740
#1	.0222065	14.91638	.3830217	6.748904	.0187893	.0003677
#2	.0221345	14.98823	.3857300	6.800473	.0189185	.0003926
#3	.0226232	14.85828	.3833664	6.706728	.0189734	.0006953

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	87.28566	.0270025	.0713952	2.956497	.0462294	.0105150
Stddev	.14435	.0010514	.0002216	.025736	.0005765	.0001549
%RSD	.1653812	3.893833	.3103579	.8705058	1.246923	1.473144
#1	87.45223	.0275927	.0712345	2.975094	.0460436	.0104585
#2	87.20773	.0276261	.0713031	2.967272	.0468758	.0103963
#3	87.19702	.0257885	.0716480	2.927124	.0457688	.0106903

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04 Acquired: 10/28/2024 13:52:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.002624	.1011825	F 47.54328	.2397529	F 25.00341	.0144635
Stddev	.000414	.0004229	.11022	.0023593	.06141	.0008326
%RSD	15.76799	.4179729	.2318344	.9840583	.2456248	5.756584
#1	-.002985	.1007679	47.52465	.2377837	24.94699	.0144596
#2	-.002172	.1011662	47.66163	.2423679	25.06882	.0136328
#3	-.002714	.1016133	47.44355	.2391071	24.99441	.0152980

Elem	Sr4077
Units	ppm
Avg	.1994956
Stddev	.0000619
%RSD	.0310231
#1	.1995668
#2	.1994549
#3	.1994651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3018.871	65641.95	15002.44	2170.446	4587.985
Stddev	7.604	116.18	39.83	12.887	5.708
%RSD	.2518860	.1769833	.2654723	.5937340	.1244118
#1	3010.318	65563.89	15012.61	2175.740	4590.157
#2	3021.428	65586.50	14958.52	2179.842	4581.510
#3	3024.867	65775.46	15036.20	2155.755	4592.288

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04DUP Acquired: 10/28/2024 13:57:05 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0041056	-.006346	.0318722	-.000833	.0010290	26.21319
Stddev	.0025076	.000838	.0010786	.000823	.0017002	.05995
%RSD	61.07676	13.20163	3.384084	98.84238	165.2241	.2287068
#1	.0066183	-.007110	.0306268	-.001019	.0018700	26.15112
#2	.0016032	-.006476	.0324879	-.001547	-.000928	26.21767
#3	.0040954	-.005450	.0325020	.000067	.002145	26.27078

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1924687	.0022274	.0010221	18.13333	.0299176	.0104101
Stddev	.0009685	.0000509	.0000341	.15391	.0003263	.0002484
%RSD	.5031963	2.284143	3.338955	.8487524	1.090738	2.386642
#1	.1913910	.0022365	.0010020	17.97111	.0302604	.0105907
#2	.1927488	.0021725	.0010616	18.15156	.0298815	.0101268
#3	.1932663	.0022731	.0010028	18.27730	.0296108	.0105128

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220563	15.40917	.3828000	6.791599	.0185559	.0009923
Stddev	.0004216	.06659	.0034601	.058677	.0004884	.0002895
%RSD	1.911641	.4321636	.9038952	.8639572	2.632001	29.17771
#1	.0215698	15.33259	.3797213	6.727065	.0182193	.0011323
#2	.0223149	15.45353	.3821342	6.805990	.0183323	.0011851
#3	.0222842	15.44138	.3865447	6.841741	.0191160	.0006593

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	90.14600	.0262207	.0647631	3.020021	.0461344	.0109733
Stddev	.33030	.0008446	.0002604	.013554	.0006641	.0001129
%RSD	.3664058	3.221331	.4020938	.4488100	1.439567	1.028499
#1	89.93220	.0252506	.0644722	3.013229	.0468557	.0108925
#2	90.52643	.0267930	.0649745	3.035628	.0455483	.0109251
#3	89.97938	.0266184	.0648427	3.011206	.0459991	.0111022

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04DUP Acquired: 10/28/2024 13:57:05 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.002737	.0997933	F 49.23674	.2367741	F 24.96333	.0131265
Stddev	.000723	.0009148	.19638	.0010046	.05736	.0004346
%RSD	26.43249	.9167395	.3988562	.4242876	.2297686	3.310490
#1	-.003533	.0987414	49.01248	.2362182	24.97177	.0130313
#2	-.002121	.1002344	49.37799	.2379338	24.90223	.0136007
#3	-.002557	.1004040	49.31975	.2361703	25.01601	.0127474

Elem	Sr4077
Units	ppm
Avg	.1998083
Stddev	.0003987
%RSD	.1995212
#1	.1993482
#2	.2000257
#3	.2000511

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2981.060	63473.07	14960.52	2082.222	4546.138
Stddev	11.267	54.82	26.06	2.574	12.459
%RSD	.3779648	.0863635	.1741898	.1236172	.2740514
#1	2974.387	63432.52	14970.24	2079.304	4545.080
#2	2994.069	63451.25	14980.32	2083.190	4559.092
#3	2974.723	63535.44	14931.00	2084.171	4534.242

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04LX5 Acquired: 10/28/2024 14:01:19 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000964	-.001787	.0063937	-.000669	.0009493	5.395436	.0367396
Stddev	.002370	.001934	.0006894	.000816	.0010440	.005019	.0005215
%RSD	245.9187	108.2357	10.78322	122.0224	109.9770	.0930201	1.419537
#1	-.003671	.000226	.0061750	.000203	.0011190	5.390250	.0363600
#2	.000047	-.001956	.0071659	-.000794	.0018981	5.395791	.0373342
#3	.000733	-.003631	.0058401	-.001416	-.000169	5.400269	.0365244

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004360	.0001591	3.742269	.0053988	.0020426	.0041084	3.028349
Stddev	.0000183	.0000595	.021544	.0003164	.0002129	.0001031	.020135
%RSD	4.206026	37.40702	.5757039	5.860896	10.42426	2.509637	.6648756
#1	.0004566	.0002260	3.719828	.0054870	.0018804	.0040428	3.020081
#2	.0004215	.0001119	3.744193	.0050476	.0019635	.0040551	3.013665
#3	.0004299	.0001394	3.762788	.0056617	.0022837	.0042272	3.051302

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0785009	1.396823	.0039073	.0006505	17.19694	.0060855	.0100372
Stddev	.0006226	.021511	.0002267	.0001994	.11991	.0012138	.0003087
%RSD	.7931562	1.540023	5.800652	30.64928	.6972920	19.94529	3.076008
#1	.0781229	1.374312	.0037145	.0005217	17.26813	.0069092	.0096951
#2	.0781603	1.398987	.0038505	.0008801	17.05849	.0046916	.0102952
#3	.0792195	1.417171	.0041570	.0005496	17.26418	.0066556	.0101212

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6032136	.0046203	.0021310	.0006044	.0202955	9.741536	.0422107
Stddev	.0119316	.0006873	.0000415	.0005542	.0003410	.020744	.0008361
%RSD	1.978008	14.87679	1.949516	91.69245	1.680325	.2129445	1.980783
#1	.5953540	.0040112	.0020849	.0005161	.0199148	9.722729	.0419934
#2	.5973438	.0044842	.0021424	.0000997	.0205730	9.738091	.0431340
#3	.6169431	.0053655	.0021656	.0011975	.0203987	9.763786	.0415047

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04LX5 Acquired: 10/28/2024 14:01:19 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	5.181685	.0018374	.0408552
Stddev	.034081	.0001257	.0001800
%RSD	.6577272	6.842495	.4405385
#1	5.142459	.0017929	.0409308
#2	5.204038	.0019794	.0406498
#3	5.198560	.0017400	.0409851

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3033.375	65983.79	15002.17	2154.118	4849.080
Stddev	11.532	68.30	27.91	11.712	21.168
%RSD	.3801815	.1035074	.1860483	.5437201	.4365425
#1	3039.348	66040.97	15034.37	2167.455	4859.795
#2	3020.081	65908.16	14984.81	2145.507	4824.696
#3	3040.695	66002.24	14987.34	2149.392	4862.748

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04MS Acquired: 10/28/2024 14:05:34 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6854432	1.554772	.8567574	1.648336	.2340826	39.79996
Stddev	.0017862	.041298	.0036431	.003049	.0002437	.12833
%RSD	.2605888	2.656202	.4252251	.1849659	.1041238	.3224257
#1	.6836661	1.575073	.8546707	1.651526	.2338190	39.80403
#2	.6854252	1.507253	.8546374	1.648031	.2341289	39.66965
#3	.6872383	1.581990	.8609641	1.645451	.2342999	39.92620

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3691559	.1712702	.1738440	19.05919	.3989490	.1972551
Stddev	.0018546	.0005971	.0003952	.07279	.0017153	.0002569
%RSD	.5023844	.3486378	.2273615	.3818935	.4299492	.1302601
#1	.3698804	.1711663	.1735409	19.10972	.3982332	.1969703
#2	.3670484	.1719125	.1737001	18.97576	.4009062	.1973253
#3	.3705388	.1707319	.1742910	19.09209	.3977075	.1974696

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2912057	19.64660	.5587338	9.380321	.4836705	.0605378
Stddev	.0004899	.16463	.0030565	.050735	.0008096	.0003328
%RSD	.1682140	.8379598	.5470381	.5408651	.1673812	.5496685
#1	.2908698	19.68814	.5597287	9.421537	.4828706	.0604535
#2	.2917678	19.46518	.5553038	9.323658	.4836516	.0602553
#3	.2909796	19.78649	.5611689	9.395768	.4844894	.0609046

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	89.01608	.2904328	.2604500	11.92695	.2690278	.3873311
Stddev	.75020	.0013833	.0011765	.08382	.0007844	.0005297
%RSD	.8427642	.4763007	.4517329	.7027808	.2915827	.1367429
#1	89.06363	.2900689	.2611042	11.93301	.2691890	.3877129
#2	88.24324	.2892678	.2590917	11.84027	.2681752	.3875539
#3	89.74137	.2919618	.2611539	12.00758	.2697191	.3867264

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04MS Acquired: 10/28/2024 14:05:34 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0647627	.2333065	F 60.36260	5.849950	F 24.53086	.1750503
Stddev	.0008881	.0010898	.52893	.007398	.11175	.0005819
%RSD	1.371334	.4670889	.8762492	.1264695	.4555289	.3323986
#1	.0656721	.2327945	60.42672	5.841860	24.52478	.1754742
#2	.0638975	.2325669	59.80454	5.851618	24.42228	.1743870
#3	.0647186	.2345579	60.85655	5.856373	24.64552	.1752899

Elem	Sr4077
Units	ppm
Avg	.3821332
Stddev	.0016631
%RSD	.4352145
#1	.3819432
#2	.3805732
#3	.3838831

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2996.036	65465.31	14648.28	2125.441	4537.876
Stddev	12.419	430.37	54.67	25.380	9.964
%RSD	.4145168	.6574065	.3731943	1.194112	.2195644
#1	2995.541	65212.37	14587.98	2112.070	4540.623
#2	2983.871	65962.24	14694.59	2154.711	4526.827
#3	3008.694	65221.34	14662.28	2109.541	4546.178

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04MSD Acquired: 10/28/2024 14:09:33 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6836658	1.469040	.8556912	1.642935	.2320912	39.66703
Stddev	.0007081	.037394	.0052152	.004230	.0014179	.01735
%RSD	.1035750	2.545449	.6094725	.2574671	.6109191	.0437268
#1	.6835166	1.428804	.8496826	1.638107	.2336130	39.67128
#2	.6844366	1.475589	.8590428	1.644712	.2318532	39.64795
#3	.6830442	1.502726	.8583484	1.645987	.2308074	39.68185

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3680698	.1731765	.1732424	19.09429	.4073734	.1972155
Stddev	.0010415	.0013109	.0008569	.04048	.0028290	.0005289
%RSD	.2829740	.7569818	.4946360	.2120175	.6944567	.2681688
#1	.3692607	.1741501	.1722553	19.04958	.4093320	.1966048
#2	.3676200	.1716860	.1736768	19.12846	.4041299	.1975157
#3	.3673288	.1736936	.1737952	19.10483	.4086581	.1975259

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2908889	20.03120	.5606320	9.453712	.4821480	.0615956
Stddev	.0009481	.09292	.0009666	.055258	.0019777	.0001573
%RSD	.3259282	.4638542	.1724089	.5845116	.4101956	.2554363
#1	.2919787	19.95868	.5599084	9.393824	.4799836	.0617685
#2	.2904345	20.13594	.5617297	9.502723	.4825994	.0615572
#3	.2902535	19.99899	.5602578	9.464589	.4838611	.0614610

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	90.36454	.2901677	.2615862	12.11918	.2718713	.3881289
Stddev	.31460	.0014532	.0014764	.06825	.0021959	.0008746
%RSD	.3481442	.5008328	.5644007	.5631171	.8077035	.2253353
#1	90.11822	.2884982	.2632868	12.04830	.2725943	.3891165
#2	90.71893	.2911497	.2608399	12.18444	.2694050	.3874523
#3	90.25648	.2908550	.2606319	12.12479	.2736145	.3878180

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04MSD Acquired: 10/28/2024 14:09:33 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0658548	.2324884	F 61.77578	5.905419	F 24.26016	.1745792
Stddev	.0001859	.0001126	.32505	.062442	.19247	.0024668
%RSD	.2822432	.0484493	.5261745	1.057372	.7933527	1.412989
#1	.0656556	.2323844	61.44238	5.836985	24.04335	.1772042
#2	.0660236	.2324729	62.09177	5.919973	24.32625	.1723090
#3	.0658851	.2326080	61.79319	5.959298	24.41087	.1742246

Elem	Sr4077
Units	ppm
Avg	.3796209
Stddev	.0010297
%RSD	.2712505
#1	.3807652
#2	.3787690
#3	.3793285

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3005.897	64251.33	14621.66	2134.341	4551.990
Stddev	33.992	227.42	22.07	19.943	31.968
%RSD	1.130831	.3539542	.1509278	.9343932	.7022952
#1	2966.859	64407.49	14597.98	2134.516	4515.086
#2	3021.890	63990.41	14625.35	2114.311	4569.699
#3	3028.943	64356.09	14641.65	2154.196	4571.185

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04A Acquired: 10/28/2024 14:13:31 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6848094	1.539257	.8532263	1.658239	.2335801	39.90638
Stddev	.0011379	.021395	.0025692	.007966	.0017702	.15523
%RSD	.1661600	1.389960	.3011189	.4804111	.7578744	.3889834
#1	.6856831	1.515281	.8503488	1.649107	.2321688	39.73110
#2	.6835227	1.556404	.8540397	1.663767	.2330052	39.96155
#3	.6852224	1.546085	.8552903	1.661842	.2355664	40.02648

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3688436	.1713977	.1735351	19.27353	.4014778	.1975608
Stddev	.0013692	.0016097	.0003139	.09946	.0009424	.0003540
%RSD	.3712037	.9391628	.1808628	.5160407	.2347403	.1791766
#1	.3679146	.1699828	.1732983	19.17021	.4020218	.1971816
#2	.3704159	.1710614	.1738911	19.28174	.4003895	.1978825
#3	.3682003	.1731490	.1734158	19.36862	.4020219	.1976184

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2934336	19.71932	.5631245	9.421613	.4844282	.0597562
Stddev	.0005573	.04000	.0028911	.075662	.0008480	.0003185
%RSD	.1899164	.2028527	.5134124	.8030692	.1750537	.5329808
#1	.2929038	19.76151	.5601694	9.377254	.4838491	.0599270
#2	.2933823	19.68195	.5632571	9.378608	.4854016	.0593887
#3	.2940148	19.71450	.5659471	9.508976	.4840339	.0599528

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	89.17068	.2897623	.2672701	11.91293	.2690757	.3846294
Stddev	.49649	.0018098	.0006136	.03049	.0021954	.0006821
%RSD	.5567864	.6245773	.2295983	.2559234	.8159246	.1773291
#1	89.55731	.2876731	.2669410	11.94209	.2666323	.3839338
#2	89.34396	.2908480	.2679782	11.91544	.2697123	.3846574
#3	88.61078	.2907659	.2668913	11.88127	.2708825	.3852971

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4549-04A Acquired: 10/28/2024 14:13:31 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0659246	.2341973	F 60.77747	5.927746	F 24.54808	.1751426
Stddev	.0004372	.0006153	.06828	.009944	.09881	.0020554
%RSD	.6631876	.2627444	.1123379	.1677601	.4025344	1.173531
#1	.0657070	.2348069	60.85190	5.916284	24.43484	.1752004
#2	.0664279	.2342084	60.71774	5.932891	24.61683	.1771684
#3	.0656389	.2335764	60.76278	5.934065	24.59257	.1730589

Elem	Sr4077
Units	ppm
Avg	.3808168
Stddev	.0010847
%RSD	.2848409
#1	.3799803
#2	.3820424
#3	.3804277

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2992.935	65231.24	14587.42	2120.284	4538.351
Stddev	7.742	142.89	74.22	8.355	6.951
%RSD	.2586905	.2190530	.5087784	.3940450	.1531550
#1	2990.389	65066.82	14662.40	2111.423	4534.939
#2	3001.630	65325.33	14585.89	2121.411	4546.348
#3	2986.786	65301.57	14513.99	2128.018	4533.766

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164404BL Acquired: 10/28/2024 14:17:31 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000790	-.000483	-.000451	-.000826	.0001102	.0069130	-.002292
Stddev	.002827	.001273	.000456	.002244	.0005823	.0050842	.000219
%RSD	357.8553	263.8670	100.9632	271.7392	528.2124	73.54457	9.552322
#1	.002020	.000274	-.000914	-.000631	.0003268	.0051140	-.002233
#2	-.003634	.000231	-.000435	.001314	.0005532	.0029730	-.002535
#3	-.000756	-.001953	-.000004	-.003162	-.000549	.0126521	-.002109

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000455	.0000204	-.000045	-.000372	-.000003	-.001028	-.014391
Stddev	.0000275	.0000168	.006600	.000035	.000072	.000113	.001924
%RSD	60.41060	82.68833	14741.44	9.447334	2247.114	10.99172	13.37021
#1	.0000631	.0000233	-.006339	-.000409	.000021	-.000924	-.013128
#2	.0000597	.0000022	-.000618	-.000339	.000054	-.001148	-.013439
#3	.0000138	.0000355	.006823	-.000368	-.000085	-.001013	-.016605

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000184	-.003382	.0001784	.0007520	.0233611	.0003457	-.004592
Stddev	.000192	.003150	.0001219	.0000424	.0046703	.0006754	.000139
%RSD	104.1930	93.13826	68.31356	5.641187	19.99169	195.3465	3.025790
#1	-.000093	-.001154	.0002219	.0008000	.0274522	-.000281	-.004433
#2	-.000055	-.006986	.0002727	.0007368	.0243583	.000257	-.004656
#3	-.000404	-.002006	.0000408	.0007194	.0182728	.001061	-.004687

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0177400	-.006029	-.000109	.0013352	.0003009	-.004574	-.002479
Stddev	.0305736	.000465	.000211	.0004883	.0004265	.005449	.000704
%RSD	172.3432	7.707875	193.0717	36.57505	141.7405	119.1399	28.39427
#1	.0365360	-.005615	.000057	.0008289	.0005523	-.009865	-.001761
#2	-.017538	-.006532	-.000346	.0018034	.0005419	-.004877	-.002508
#3	.034222	-.005942	-.000038	.0013733	-.000192	.001021	-.003168

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164404BL Acquired: 10/28/2024 14:17:31 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0086695	-.002436	-.000029
Stddev	.0004525	.000525	.000006
%RSD	5.219765	21.53273	18.90839
#1	.0087562	-.002570	-.000031
#2	.0090724	-.002881	-.000034
#3	.0081799	-.001858	-.000023

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3024.091	65863.28	14187.11	2147.640	5043.306
Stddev	3.754	191.41	57.22	17.420	1.935
%RSD	.1241401	.2906101	.4033516	.8111013	.0383631
#1	3027.958	65850.37	14121.70	2143.129	5041.512
#2	3023.856	65678.66	14227.93	2132.919	5045.356
#3	3020.461	66060.82	14211.70	2166.871	5043.050

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164404BS Acquired: 10/28/2024 14:21:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7195310	1.767150	.9069821	1.834096	.7743739	1.877266
Stddev	.0018069	.058489	.0020279	.006391	.0035239	.004317
%RSD	.2511164	3.309807	.2235886	.3484604	.4550588	.2299590
#1	.7199760	1.722466	.9078379	1.827392	.7704036	1.872829
#2	.7175433	1.745634	.9046666	1.834777	.7771306	1.881452
#3	.7210739	1.833350	.9084418	1.840120	.7755874	1.877518

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1793473	.1871591	.1787497	.9681460	.3846137	.1916879
Stddev	.0005773	.0002079	.0005263	.0061239	.0017818	.0005781
%RSD	.3219002	.1110583	.2944303	.6325370	.4632810	.3016004
#1	.1795617	.1869599	.1793310	.9673097	.3825750	.1922197
#2	.1786934	.1871427	.1783057	.9624832	.3858737	.1910725
#3	.1797867	.1873747	.1786122	.9746450	.3853922	.1917714

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3057024	2.906983	.1830589	1.820857	.4826740	.0754561
Stddev	.0004905	.009623	.0010639	.017767	.0009529	.0003455
%RSD	.1604411	.3310283	.5811974	.9757472	.1974173	.4578971
#1	.3058547	2.904427	.1828744	1.812146	.4836495	.0758138
#2	.3051538	2.898896	.1820992	1.809127	.4817455	.0754302
#3	.3060985	2.917626	.1842030	1.841299	.4826270	.0751243

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.713885	.2798676	.2031261	9.720409	.2662336	.4099355
Stddev	.014766	.0016580	.0012577	.036705	.0014946	.0006429
%RSD	.5440842	.5924301	.6191856	.3776067	.5613728	.1568253
#1	2.730777	.2786385	.2045697	9.744219	.2649240	.4096164
#2	2.703435	.2792110	.2022669	9.678139	.2659152	.4095146
#3	2.707443	.2817534	.2025417	9.738870	.2678618	.4106755

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164404BS Acquired: 10/28/2024 14:21:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6617072	.1827444	F .6842408	5.736933	F -.006346	.1671312
Stddev	.0034649	.0005033	.0062385	.021159	.002697	.0013095
%RSD	.5236306	.2754136	.9117395	.3688258	42.50161	.7834995
#1	.6624158	.1822226	.6771395	5.753992	-.003268	.1680960
#2	.6579428	.1827838	.6888389	5.713256	-.008295	.1656406
#3	.6647631	.1832269	.6867441	5.743552	-.007476	.1676571

Elem	Sr4077
Units	ppm
Avg	.1865286
Stddev	.0003667
%RSD	.1965834
#1	.1868720
#2	.1861424
#3	.1865715

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3028.481	64982.25	14043.48	2114.913	4920.063
Stddev	4.403	213.72	13.57	17.052	3.968
%RSD	.1453946	.3288875	.0966300	.8062803	.0806453
#1	3030.432	64735.62	14044.30	2096.879	4915.940
#2	3023.439	65113.14	14056.62	2130.776	4923.855
#3	3031.571	65097.97	14029.51	2117.083	4920.395

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV02 Acquired: 10/28/2024 14:25:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.911807	4.738554	4.864929	4.974656	4.979471	9.712827	9.412954
Stddev	.014465	.076586	.010841	.018402	.003803	.015346	.093689
%RSD	.2945023	1.616235	.2228401	.3699193	.0763799	.1579928	.9953216
#1	4.912452	4.661786	4.874704	4.976434	4.976055	9.726208	9.516798
#2	4.925940	4.814957	4.853269	4.992105	4.983569	9.716195	9.387296
#3	4.897031	4.738919	4.866815	4.955430	4.978789	9.696077	9.334766

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2402093	2.436367	23.76209	.9593863	2.432376	1.249920	4.834936
Stddev	.0014177	.006131	.13013	.0050828	.003621	.001511	.017400
%RSD	.5901870	.2516399	.5476340	.5297962	.1488648	.1208508	.3598752
#1	.2405077	2.443228	23.89720	.9598002	2.436401	1.251632	4.854414
#2	.2414541	2.431426	23.75150	.9642495	2.429382	1.248777	4.820931
#3	.2386662	2.434448	23.63759	.9541092	2.431346	1.249349	4.829461

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.322547	23.73030	2.441141	1.238915	24.10225	2.395473	2.510391
Stddev	.007222	.20412	.003621	.000404	.08312	.005131	.005288
%RSD	.3109472	.8601697	.1483174	.0325879	.3448636	.2141865	.2106453
#1	2.329807	23.94594	2.444549	1.238847	24.08763	2.397425	2.509268
#2	2.322470	23.70486	2.437340	1.239349	24.02741	2.399342	2.516150
#3	2.315363	23.54008	2.441535	1.238550	24.19171	2.389653	2.505754

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.59583	4.760178	5.053430	4.852177	4.694023	5.088641	5.212882
Stddev	.13704	.026401	.002406	.007297	.012158	.018600	.008871
%RSD	.5571682	.5546228	.0476202	.1503944	.2590022	.3655168	.1701839
#1	24.59040	4.773964	5.052515	4.859129	4.703117	5.084691	5.206739
#2	24.46159	4.776833	5.056159	4.852826	4.698737	5.072332	5.208855
#3	24.73551	4.729738	5.051615	4.844577	4.680214	5.108898	5.223053

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV02 Acquired: 10/28/2024 14:25:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.735650	4.605289	4.814131
Stddev	.029159	.011680	.062915
%RSD	.6157373	.2536273	1.306885
#1	4.739044	4.618641	4.876766
#2	4.762963	4.596967	4.814687
#3	4.704942	4.600258	4.750940

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2904.720	63388.41	13394.68	2065.059	4465.068
Stddev	.894	229.67	100.08	12.499	3.240
%RSD	.0307664	.3623196	.7471308	.6052778	.0725622
#1	2905.746	63124.88	13298.17	2052.362	4468.072
#2	2904.109	63545.85	13387.90	2077.351	4465.498
#3	2904.306	63494.51	13497.98	2065.462	4461.635

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB02 Acquired: 10/28/2024 14:30:03 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000840	-.000363	-.000353	.0001529	.0009849	.0040651	-.002179
Stddev	.001235	.000982	.000349	.0007546	.0003673	.0049899	.000085
%RSD	146.9930	270.6681	98.82982	493.6725	37.29202	122.7493	3.920586
#1	-.000126	-.001183	-.000733	-.000607	.0006157	.0090278	-.002134
#2	-.000128	-.000632	-.000281	.000902	.0009889	.0041190	-.002125
#3	-.002266	.000726	-.000046	.000163	.0013502	-.000952	-.002277

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000002	-.000008	.0045375	-.000621	-.000023	-.001058	-.014181
Stddev	.000046	.000051	.0022050	.000186	.000152	.000196	.001638
%RSD	2944.149	655.7261	48.59606	30.01330	662.3659	18.55198	11.54992
#1	-.000021	-.000044	.0049519	-.000406	-.000163	-.000845	-.012992
#2	-.000034	-.000030	.0021546	-.000731	.000139	-.001232	-.013501
#3	.000051	.000051	.0065058	-.000725	-.000045	-.001097	-.016049

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000123	-.000295	.0000711	.0005909	-.074984	-.000273	-.004626
Stddev	.000124	.011765	.0001360	.0001575	.004524	.000977	.000296
%RSD	100.7062	3991.968	191.2093	26.64816	6.033537	358.1184	6.404074
#1	-.000024	.011063	.0001967	.0007683	-.079998	.000737	-.004290
#2	-.000084	-.012428	-.000073	.0005370	-.071206	-.001213	-.004736
#3	-.000262	.000481	.000090	.0004675	-.073749	-.000342	-.004850

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.022055	-.000813	-.000035	.0017266	.0003240	-.013465	-.002967
Stddev	.006199	.000240	.000044	.0005963	.0006394	.002708	.000281
%RSD	28.10695	29.50620	127.1993	34.53734	197.3639	20.11470	9.454445
#1	-.015726	-.000609	-.000018	.0010620	.0010611	-.014298	-.003174
#2	-.028115	-.000753	-.000001	.0022148	-.000007	-.010438	-.002648
#3	-.022323	-.001077	-.000085	.0019029	-.000082	-.015660	-.003080

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB02 Acquired: 10/28/2024 14:30:03 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0012108	-.002879	.0000310
Stddev	.0022436	.001748	.0000139
%RSD	185.3010	60.70961	44.93222
#1	.0016984	-.004710	.0000442
#2	-.001237	-.002698	.0000322
#3	.003170	-.001228	.0000165

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3109.929	65116.16	14244.48	2165.684	5187.876
Stddev	19.020	200.56	45.84	9.935	24.988
%RSD	.6115809	.3080023	.3218372	.4587309	.4816704
#1	3088.473	64884.65	14195.85	2157.530	5160.354
#2	3116.598	65226.93	14286.91	2162.772	5194.134
#3	3124.717	65236.91	14250.67	2176.749	5209.141

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-01 Acquired: 10/28/2024 14:34:24 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0041775	.0002317	.1016469	-.004787	.0052487	4.638194
Stddev	.0002699	.0011804	.0011635	.000816	.0016745	.002358
%RSD	6.459726	509.4168	1.144611	17.05084	31.90241	.0508492
#1	.0043153	-.000969	.1028214	-.005490	.0071790	4.640907
#2	.0038666	.000272	.1004947	-.003892	.0041871	4.637039
#3	.0043507	.001391	.1016246	-.004979	.0043799	4.636635

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1364158	.0005166	.0020517	110.8086	.0192170	.0072414
Stddev	.0002802	.0000273	.0000761	.4340	.0004542	.0001657
%RSD	.2054066	5.277973	3.708744	.3916549	2.363754	2.288066
#1	.1367140	.0005013	.0021111	111.2080	.0197414	.0072163
#2	.1361579	.0005005	.0020780	110.8711	.0189645	.0070897
#3	.1363756	.0005481	.0019659	110.3468	.0189450	.0074182

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0869400	26.05016	.5486352	11.80595	.0185122	.0018574
Stddev	.0002154	.07114	.0041390	.05780	.0001409	.0000647
%RSD	.2477708	.2730752	.7544223	.4895954	.7611348	3.481868
#1	.0871755	26.13209	.5532681	11.82479	.0185548	.0019302
#2	.0867530	26.01427	.5473356	11.85199	.0186270	.0018351
#3	.0868914	26.00412	.5453020	11.74109	.0183550	.0018068

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.32555	.0133960	.5887223	15.72805	.0776232	.0041166
Stddev	.17013	.0008328	.0016331	.04548	.0001091	.0001054
%RSD	.3838186	6.216649	.2773952	.2891427	.1405602	2.561083
#1	44.48411	.0136434	.5870275	15.77372	.0775559	.0039951
#2	44.14583	.0140769	.5888538	15.68277	.0777490	.0041709
#3	44.34670	.0124675	.5902858	15.72767	.0775646	.0041839

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-01 Acquired: 10/28/2024 14:34:24 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0000321	.1750201	F 15.17981	4.919643	3.790274	.0357527
Stddev	.0000341	.0002805	.04450	.022629	.024360	.0008802
%RSD	106.1300	.1602857	.2931761	.4599710	.6427052	2.461935
#1	-.000001	.1748232	15.12926	4.925266	3.776208	.0350178
#2	.000031	.1748958	15.21310	4.938930	3.818403	.0355122
#3	.000067	.1753413	15.19706	4.894732	3.776212	.0367282

Elem	Sr4077
Units	ppm
Avg	.3586933
Stddev	.0010328
%RSD	.2879449
#1	.3598649
#2	.3579145
#3	.3583006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2838.111	63630.92	14729.35	2069.602	4420.603
Stddev	14.944	245.85	11.81	8.883	17.527
%RSD	.5265628	.3863681	.0802128	.4292218	.3964887
#1	2849.267	63813.33	14735.04	2068.948	4432.289
#2	2843.934	63728.08	14737.24	2078.795	4429.069
#3	2821.131	63351.33	14715.76	2061.065	4400.449

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02 Acquired: 10/28/2024 14:38:35 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0038426	-.000273	.1027710	-.004742	.0052270	4.825256
Stddev	.0015621	.001401	.0004466	.000555	.0010868	.007194
%RSD	40.65117	513.8524	.4345569	11.70946	20.79296	.1490889
#1	.0033186	-.001729	.1023099	-.004146	.0040466	4.817207
#2	.0055994	-.000154	.1032016	-.004835	.0054481	4.827502
#3	.0026100	.001065	.1028015	-.005245	.0061862	4.831060

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1399074	.0005266	.0020151	111.9119	.0198957	.0072736
Stddev	.0003822	.0000470	.0000722	.1742	.0001375	.0000897
%RSD	.2731501	8.929659	3.583874	.1557028	.6909796	1.233819
#1	.1402892	.0005084	.0020984	112.0987	.0199984	.0073453
#2	.1395249	.0005800	.0019762	111.8831	.0197395	.0073026
#3	.1399081	.0004913	.0019706	111.7538	.0199492	.0071730

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0907655	26.85004	.5544446	11.90576	.0197836	.0018862
Stddev	.0008631	.12258	.0010398	.04096	.0001585	.0000817
%RSD	.9509531	.4565445	.1875454	.3440054	.8012093	4.333110
#1	.0903645	26.98318	.5555275	11.95302	.0197690	.0019383
#2	.0901759	26.82509	.5543524	11.88361	.0196329	.0017920
#3	.0917562	26.74185	.5534539	11.88064	.0199489	.0019283

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	46.15402	.0144141	.6160784	16.43740	.0767904	.0042030
Stddev	.16698	.0007952	.0012285	.03460	.0002857	.0002203
%RSD	.3617894	5.516605	.1994065	.2104889	.3721070	5.241384
#1	46.34470	.0136862	.6173113	16.47649	.0770953	.0040948
#2	46.08343	.0152627	.6148544	16.42501	.0767471	.0044564
#3	46.03392	.0142935	.6160696	16.41070	.0765288	.0040577

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02 Acquired: 10/28/2024 14:38:35 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0006279	.1842961	F 16.02115	5.011203	4.466456	.0373392
Stddev	.0002844	.0001439	.02474	.021930	.006629	.0010642
%RSD	45.29199	.0780699	.1544099	.4376194	.1484251	2.850059
#1	.0008665	.1843669	16.04744	5.025679	4.458851	.0361110
#2	.0007041	.1841305	16.01767	5.021958	4.471011	.0379886
#3	.0003132	.1843909	15.99834	4.985972	4.469508	.0379179

Elem	Sr4077
Units	ppm
Avg	.3667757
Stddev	.0006231
%RSD	.1698959
#1	.3670221
#2	.3660670
#3	.3672379

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2709.249	61468.24	14533.08	1965.553	4251.111
Stddev	19.142	53.22	10.25	6.023	21.113
%RSD	.7065362	.0865747	.0705534	.3064199	.4966369
#1	2728.580	61415.25	14535.74	1958.981	4274.845
#2	2708.865	61467.81	14541.75	1970.809	4244.068
#3	2690.302	61521.68	14521.76	1966.868	4234.420

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02DUP Acquired: 10/28/2024 14:42:45 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0029821	.0002840	.1035269	-.004211	.0053760	4.806301
Stddev	.0013662	.0005926	.0019801	.001642	.0004371	.002871
%RSD	45.81379	208.6678	1.912635	38.98870	8.130930	.0597247
#1	.0043651	-.000344	.1033956	-.006079	.0049297	4.807977
#2	.0029479	.000833	.1055693	-.002999	.0058033	4.807939
#3	.0016334	.000362	.1016157	-.003555	.0053950	4.802986

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1395868	.0005023	.0019374	112.3184	.0199666	.0072466
Stddev	.0002811	.0000527	.0000829	.5257	.0005653	.0000641
%RSD	.2014088	10.49205	4.280467	.4680366	2.831189	.8849932
#1	.1399080	.0005614	.0018465	112.8488	.0205484	.0073142
#2	.1393854	.0004602	.0019568	112.3088	.0199321	.0072389
#3	.1394670	.0004854	.0020090	111.7975	.0194194	.0071866

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0890063	27.54215	.5544674	11.95070	.0193580	.0021078
Stddev	.0002290	.08028	.0027712	.03906	.0003359	.0003490
%RSD	.2572740	.2914766	.4997905	.3268231	1.735382	16.55851
#1	.0888571	27.63474	.5574887	11.97419	.0196667	.0018931
#2	.0892699	27.49212	.5538696	11.97230	.0190002	.0025105
#3	.0888918	27.49957	.5520439	11.90561	.0194073	.0019198

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	47.52342	.0140731	.6174196	16.98906	.0767765	.0043352
Stddev	.11258	.0003316	.0039843	.04323	.0007182	.0001904
%RSD	.2368840	2.355902	.6453167	.2544623	.9353883	4.392875
#1	47.39477	.0144386	.6134346	16.94928	.0773226	.0041551
#2	47.60387	.0139889	.6214033	16.98284	.0770439	.0043159
#3	47.57162	.0137918	.6174209	17.03507	.0759630	.0045346

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02DUP Acquired: 10/28/2024 14:42:45 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0005192	.1753522	F 16.30888	4.954044	4.404391	.0379348
Stddev	.0002409	.0005503	.03361	.006550	.022406	.0011629
%RSD	46.39014	.3138148	.2061031	.1322103	.5087085	3.065420
#1	.0003557	.1757599	16.27382	4.947052	4.429631	.0379264
#2	.0004062	.1747263	16.31198	4.955044	4.396693	.0391018
#3	.0007958	.1755705	16.34084	4.960036	4.386850	.0367762

Elem	Sr4077
Units	ppm
Avg	.3696029
Stddev	.0006567
%RSD	.1776707
#1	.3697477
#2	.3701750
#3	.3688859

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2725.423	59515.23	14441.99	1905.165	4277.238
Stddev	6.894	103.69	29.50	7.987	4.777
%RSD	.2529677	.1742209	.2042333	.4192344	.1116895
#1	2724.584	59606.97	14415.52	1912.836	4277.681
#2	2732.699	59535.97	14436.67	1905.762	4281.779
#3	2718.987	59402.73	14473.79	1896.896	4272.255

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02LX5 Acquired: 10/28/2024 14:46:55 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000075	-.000477	.0208316	.0000738	.0013281	.9547308	.0261792
Stddev	.001872	.001153	.0003668	.0002705	.0004592	.0077402	.0001310
%RSD	2484.994	241.7477	1.760823	366.3709	34.57742	.8107205	.5004048
#1	.002080	.000331	.0205060	.0001010	.0018411	.9617279	.0263136
#2	-.001009	-.001798	.0207597	.0003297	.0011876	.9464165	.0260519
#3	-.001297	.000036	.0212290	-.000209	.0009555	.9560479	.0261722

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001192	.0003352	22.98214	.0033527	.0013376	.0172801	5.198533
Stddev	.0000374	.0000307	.02344	.0002778	.0002561	.0003894	.032424
%RSD	31.35153	9.153510	.1019740	8.286988	19.14365	2.253281	.6237231
#1	.0001265	.0003202	22.97936	.0035574	.0011403	.0175804	5.162334
#2	.0000787	.0003705	23.00683	.0034644	.0016270	.0174198	5.224914
#3	.0001523	.0003149	22.96021	.0030364	.0012456	.0168402	5.208351

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1152486	2.448486	.0039618	.0008297	8.183707	.0029878	.1146666
Stddev	.0003329	.012618	.0001448	.0002108	.082048	.0003502	.0006365
%RSD	.2888961	.5153325	3.653962	25.40047	1.002577	11.72037	.5551251
#1	.1156308	2.442253	.0037968	.0005893	8.096199	.0026950	.1144061
#2	.1150936	2.463007	.0040213	.0009177	8.258904	.0033757	.1153920
#3	.1150215	2.440196	.0040674	.0009823	8.196017	.0028927	.1142016

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.040785	.0113156	.0010737	.0003446	.0361020	2.936639	.9459540
Stddev	.011488	.0001963	.0000393	.0007056	.0001703	.015503	.0014306
%RSD	.3778046	1.734819	3.659275	204.7460	.4717857	.5279128	.1512308
#1	3.030133	.0115403	.0011012	.0000576	.0362812	2.929820	.9444628
#2	3.052958	.0112297	.0010913	.0011485	.0359423	2.954383	.9460841
#3	3.039265	.0111770	.0010287	-.000172	.0360824	2.925715	.9473151

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02LX5 Acquired: 10/28/2024 14:46:55 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.8276750	.0064840	.0741306
Stddev	.0065937	.0021193	.0001811
%RSD	.7966473	32.68468	.2442859
#1	.8285710	.0041513	.0741277
#2	.8206792	.0082907	.0739510
#3	.8337748	.0070099	.0743132

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2965.819	65105.02	14248.86	2110.792	4810.704
Stddev	14.114	351.00	74.30	15.521	15.081
%RSD	.4758916	.5391328	.5214645	.7353023	.3134926
#1	2951.863	65224.69	14163.54	2114.617	4794.398
#2	2965.508	64709.83	14283.68	2093.716	4813.564
#3	2980.086	65380.54	14299.36	2124.043	4824.151

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02MS Acquired: 10/28/2024 14:51:11 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7845538	1.774061	1.019923	1.222883	.8144109	7.092011
Stddev	.0048481	.025073	.003623	.007828	.0056613	.027102
%RSD	.6179493	1.413336	.3552677	.6401084	.6951427	.3821547
#1	.7828896	1.781839	1.018343	1.218062	.8090159	7.122510
#2	.7807569	1.746020	1.017358	1.218672	.8139115	7.082836
#3	.7900148	1.794323	1.024068	1.231915	.8203054	7.070686

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3298908	.1930946	.1868312	114.9186	.4092673	.2071359
Stddev	.0016560	.0011190	.0007999	.6221	.0016729	.0004434
%RSD	.5019770	.5795300	.4281365	.5413820	.4087489	.2140759
#1	.3315931	.1943858	.1860491	115.5891	.4111636	.2067622
#2	.3297939	.1924050	.1867968	114.8069	.4080006	.2070196
#3	.3282854	.1924931	.1876478	114.3599	.4086376	.2076259

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3988011	29.11593	.7504536	13.98433	.5170828	.0801907
Stddev	.0016220	.21060	.0031044	.06752	.0017800	.0007146
%RSD	.4067243	.7233119	.4136748	.4828297	.3442303	.8910698
#1	.3972315	29.35799	.7534652	14.05489	.5153093	.0809996
#2	.3987010	29.01508	.7506317	13.97777	.5170699	.0796453
#3	.4004709	28.97472	.7472640	13.92033	.5188692	.0799273

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	47.65772	.2986428	.8173119	26.37763	.3432279	.4198047
Stddev	.33830	.0010276	.0080697	.21556	.0028268	.0020247
%RSD	.7098541	.3441007	.9873453	.8172084	.8235797	.4823015
#1	48.02021	.2996646	.8265901	26.61840	.3462662	.4187737
#2	47.60254	.2976094	.8134179	26.31194	.3406757	.4185030
#3	47.35040	.2986544	.8119276	26.20256	.3427417	.4221375

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02MS Acquired: 10/28/2024 14:51:11 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6246761	.3801060	F 17.13707	F 11.34251	5.159043	.2171888
Stddev	.0013653	.0055113	.11648	.02603	.024107	.0024991
%RSD	.2185670	1.449952	.6796995	.2295009	.4672690	1.150654
#1	.6238040	.3856564	17.27090	11.31247	5.142643	.2200298
#2	.6239747	.3800272	17.08178	11.35848	5.147765	.2153303
#3	.6262495	.3746345	17.05853	11.35658	5.186721	.2162063

Elem	Sr4077
Units	ppm
Avg	.5645467
Stddev	.0024195
%RSD	.4285674
#1	.5671602
#2	.5640950
#3	.5623849

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2812.979	63161.83	14230.50	2036.031	4360.545
Stddev	13.412	202.95	10.70	6.619	17.649
%RSD	.4768026	.3213247	.0752186	.3250808	.4047507
#1	2822.536	62942.16	14219.56	2029.584	4373.983
#2	2818.755	63342.36	14240.95	2042.809	4367.095
#3	2797.646	63200.98	14230.99	2035.701	4340.557

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02MSD Acquired: 10/28/2024 14:55:10 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.8015828	1.758986	1.031708	1.261222	.8342617	7.040879
Stddev	.0009995	.030828	.004589	.003758	.0005323	.011521
%RSD	.1246849	1.752604	.4448246	.2979308	.0638018	.1636289
#1	.8026826	1.768566	1.031508	1.258796	.8347784	7.027943
#2	.8007300	1.783887	1.036395	1.265550	.8342915	7.044661
#3	.8013359	1.724506	1.027223	1.259319	.8337151	7.050034

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3305365	.1899610	.1881893	114.4557	.4053774	.2086592
Stddev	.0006653	.0001247	.0006141	.3702	.0011535	.0007372
%RSD	.2012833	.0656665	.3263390	.3234109	.2845483	.3533037
#1	.3297692	.1901050	.1884895	114.8583	.4065070	.2088041
#2	.3309530	.1898912	.1885956	114.1301	.4054237	.2093132
#3	.3308872	.1898868	.1874828	114.3787	.4042015	.2078603

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4058093	29.41209	.7414656	13.92904	.5211909	.0816217
Stddev	.0009294	.11952	.0034364	.04323	.0013916	.0003371
%RSD	.2290238	.4063663	.4634621	.3103318	.2670060	.4130703
#1	.4047967	29.54606	.7450281	13.96515	.5219983	.0818467
#2	.4066235	29.31639	.7381709	13.88115	.5219904	.0817843
#3	.4060076	29.37381	.7411979	13.94084	.5195840	.0812340

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	48.63365	.2994097	.8087163	27.02917	.3399561	.4332067
Stddev	.08404	.0015055	.0018809	.06844	.0008159	.0017710
%RSD	.1727941	.5028233	.2325755	.2531996	.2400011	.4088148
#1	48.67085	.3011458	.8108882	27.02059	.3405469	.4325417
#2	48.69267	.2986196	.8076314	27.10150	.3390252	.4352140
#3	48.53744	.2984638	.8076294	26.96543	.3402963	.4318645

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02MSD Acquired: 10/28/2024 14:55:10 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6245211	.3658977	F 17.17068	F 11.35280	5.144440	.2174046
Stddev	.0025072	.0036955	.01913	.04976	.019568	.0005948
%RSD	.4014589	1.009970	.1114334	.4382938	.3803656	.2735849
#1	.6265218	.3701449	17.19090	11.34982	5.147705	.2167283
#2	.6253330	.3641309	17.16828	11.40398	5.162170	.2178462
#3	.6217086	.3634173	17.15286	11.30459	5.123446	.2176394

Elem	Sr4077
Units	ppm
Avg	.5664301
Stddev	.0010259
%RSD	.1811215
#1	.5652605
#2	.5668524
#3	.5671776

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2731.590	61960.63	14222.84	1980.864	4266.977
Stddev	11.514	48.91	15.25	6.259	6.608
%RSD	.4215132	.0789334	.1072474	.3159619	.1548569
#1	2743.502	62005.92	14226.93	1982.228	4273.809
#2	2720.520	61908.77	14235.62	1986.329	4260.619
#3	2730.748	61967.21	14205.95	1974.036	4266.503

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02A Acquired: 10/28/2024 14:59:07 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.8016772	1.783682	1.017093	1.259923	.8313571	6.869318
Stddev	.0031671	.003200	.001405	.007661	.0024999	.156833
%RSD	.3950550	.1793798	.1381714	.6080608	.3007047	2.283089
#1	.7990889	1.787212	1.017587	1.251282	.8309350	6.943077
#2	.8007341	1.782860	1.015507	1.262602	.8290952	6.689204
#3	.8052088	1.780973	1.018184	1.265886	.8340413	6.975673

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3208757	.1843689	.1857696	111.0783	.4010890	.2053756
Stddev	.0073001	.0032671	.0005772	2.3553	.0014050	.0003417
%RSD	2.275065	1.772031	.3106939	2.120441	.3503083	.1663766
#1	.3257698	.1858616	.1856958	112.6686	.4023529	.2052516
#2	.3124850	.1806222	.1852329	108.3724	.4013378	.2051133
#3	.3243724	.1866231	.1863801	112.1937	.3995761	.2057620

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4011092	29.56092	.7187926	13.48971	.5141537	.0813424
Stddev	.0014367	.20753	.0158123	.26069	.0008629	.0000924
%RSD	.3581825	.7020361	2.199838	1.932475	.1678346	.1136352
#1	.4000638	29.74543	.7300712	13.69422	.5141444	.0813359
#2	.4005163	29.33625	.7007186	13.19617	.5132955	.0812534
#3	.4027474	29.60108	.7255881	13.57873	.5150213	.0814379

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.35918	.2921206	.8147472	27.49189	.3308774	.4309446
Stddev	.30596	.0067634	.0011601	.17550	.0047008	.0009583
%RSD	.6198654	2.315271	.1423918	.6383602	1.420693	.2223796
#1	49.61287	.2973790	.8148997	27.62481	.3336395	.4307103
#2	49.01940	.2844909	.8135184	27.29296	.3254497	.4301252
#3	49.44528	.2944920	.8158235	27.55791	.3335430	.4319984

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4554-02A Acquired: 10/28/2024 14:59:07 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6139618	.3477920	F 17.26353	F 11.04688	5.071802	.2130742
Stddev	.0016650	.0083472	.08003	.01421	.006764	.0038007
%RSD	.2711936	2.400045	.4636045	.1286302	.1333641	1.783757
#1	.6121642	.3527509	17.32806	11.06121	5.065717	.2135002
#2	.6154512	.3381549	17.17397	11.03279	5.070603	.2090784
#3	.6142700	.3524703	17.28857	11.04665	5.079085	.2166439

Elem	Sr4077
Units	ppm
Avg	.5532008
Stddev	.0140477
%RSD	2.539348
#1	.5614231
#2	.5369804
#3	.5611989

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2720.924	60688.22	14544.56	1932.359	4270.368
Stddev	11.552	75.73	264.58	1.845	14.881
%RSD	.4245756	.1247827	1.819078	.0954842	.3484814
#1	2732.541	60603.68	14373.50	1930.386	4286.607
#2	2720.793	60749.83	14849.30	1934.041	4267.115
#3	2709.438	60711.17	14410.86	1932.651	4257.382

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164410BL Acquired: 10/28/2024 15:03:06 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.001081	-.000989	.0001574	.0002396	.0000289	.0031910	-.003775
Stddev	.001750	.000467	.0000130	.0016408	.0009289	.0009635	.000554
%RSD	161.8657	47.26747	8.272319	684.8667	3212.678	30.19437	14.67722
#1	-.002380	-.001305	.0001441	-.000408	.0004945	.0037823	-.003763
#2	.000909	-.000452	.0001701	-.000979	.0006329	.0037114	-.004335
#3	-.001774	-.001210	.0001580	.002105	-.001041	.0020792	-.003227

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000469	-.000050	.0013640	-.000447	-.000013	-.001396	-.013443
Stddev	.0000185	.000035	.0036893	.000328	.000084	.000545	.001299
%RSD	39.52437	70.17329	270.4725	73.28747	666.3994	39.05168	9.664682
#1	.0000384	-.000089	.0054263	-.000689	.000071	-.001095	-.014731
#2	.0000681	-.000042	-.001778	-.000074	-.000011	-.002026	-.013467
#3	.0000342	-.000020	.000444	-.000580	-.000097	-.001068	-.012133

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000048	.0028288	.0000253	.0004627	-.057784	-.000255	-.004613
Stddev	.000222	.0079839	.0002533	.0001678	.007074	.001123	.000118
%RSD	458.4526	282.2397	1000.721	36.27750	12.24202	440.5592	2.568179
#1	-.000302	.0003823	-.000231	.0004812	-.065637	.000069	-.004635
#2	.000053	.0117497	.000276	.0006205	-.051912	.000671	-.004485
#3	.000104	-.003646	.000031	.0002863	-.055802	-.001505	-.004718

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173664	-.005757	-.000176	.0016900	.0004984	-.010894	-.002253
Stddev	.0056318	.000392	.000141	.0005047	.0000371	.005757	.002154
%RSD	32.42916	6.806194	79.93988	29.86678	7.448523	52.84846	95.61754
#1	.0204135	-.005394	-.000308	.0014446	.0005304	-.014853	-.000940
#2	.0108676	-.005704	-.000192	.0022705	.0004577	-.013540	-.001080
#3	.0208180	-.006173	-.000028	.0013548	.0005071	-.004289	-.004740

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164410BL Acquired: 10/28/2024 15:03:06 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0031004	-.001615	-.000036
Stddev	.0041988	.001101	.000017
%RSD	135.4253	68.21784	46.55440
#1	.0070730	-.002534	-.000040
#2	-.001293	-.001916	-.000018
#3	.003521	-.000394	-.000050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3026.632	66310.11	14230.44	2137.661	5106.237
Stddev	5.307	267.73	38.86	16.067	8.795
%RSD	.1753288	.4037578	.2730981	.7516232	.1722462
#1	3020.626	66011.72	14187.24	2121.883	5096.138
#2	3028.585	66389.27	14241.53	2137.098	5110.361
#3	3030.686	66529.33	14262.55	2154.003	5112.213

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164410BS Acquired: 10/28/2024 15:07:27 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7053228	F 1.695315	.8894451	1.789246	.7558076	1.847158
Stddev	.0011430	.038758	.0030268	.006051	.0014636	.009429
%RSD	.1620520	2.286173	.3402987	.3381654	.1936403	.5104507
#1	.7059495	1.728326	.8929356	1.796072	.7572634	1.857834
#2	.7040035	1.704980	.8878535	1.787126	.7558229	1.839973
#3	.7060152	1.652640	.8875461	1.784542	.7543364	1.843666

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1801492	.1859705	.1752789	.9592725	.3879693	.1887955
Stddev	.0005355	.0006407	.0000784	.0052880	.0011856	.0003510
%RSD	.2972591	.3445199	.0447568	.5512492	.3056008	.1859033
#1	.1807625	.1856406	.1753651	.9560711	.3866319	.1884254
#2	.1799104	.1855619	.1752117	.9563704	.3888914	.1888377
#3	.1797746	.1867089	.1752600	.9653761	.3883846	.1891235

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3026990	2.927571	.1832477	1.797949	.4752147	.0749048
Stddev	.0008250	.012909	.0006718	.003792	.0004126	.0001676
%RSD	.2725336	.4409564	.3666340	.2108934	.0868277	.2237513
#1	.3032742	2.940536	.1835684	1.797145	.4755911	.0747126
#2	.3017538	2.914718	.1824756	1.802078	.4752794	.0749820
#3	.3030690	2.927459	.1836991	1.794623	.4747735	.0750200

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.761155	.2762036	.2029887	9.798248	.2645438	.3990319
Stddev	.017712	.0003911	.0008291	.031769	.0011181	.0011493
%RSD	.6414715	.1415985	.4084338	.3242274	.4226556	.2880202
#1	2.773207	.2757526	.2039198	9.830771	.2632839	.3999046
#2	2.769440	.2764489	.2023304	9.767292	.2654180	.3994614
#3	2.740819	.2764095	.2027159	9.796682	.2649295	.3977297

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164410BS Acquired: 10/28/2024 15:07:27 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6457751	.1790109	F .6666863	5.758008	F -.006164	.1702689
Stddev	.0023436	.0004907	.0066266	.011652	.000590	.0004584
%RSD	.3629146	.2741381	.9939579	.2023594	9.576754	.2692398
#1	.6477850	.1793821	.6731918	5.744622	-.005607	.1698380
#2	.6463396	.1791962	.6599449	5.763523	-.006102	.1702180
#3	.6432009	.1784545	.6669223	5.765878	-.006783	.1707507

Elem	Sr4077
Units	ppm
Avg	.1866950
Stddev	.0005105
%RSD	.2734534
#1	.1872660
#2	.1865367
#3	.1862825

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3045.460	64360.02	14022.90	2137.632	4946.074
Stddev	6.763	243.50	25.85	12.612	8.111
%RSD	.2220753	.3783477	.1843260	.5900026	.1639789
#1	3038.980	64084.36	13994.27	2123.445	4938.039
#2	3044.926	64449.83	14044.51	2141.878	4945.926
#3	3052.474	64545.86	14029.93	2147.574	4954.258

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-01 Acquired: 10/28/2024 15:11:27 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0001737	.0009099	.0011888	-.001444	-.000926	.1251108	.1282571
Stddev	.0010936	.0015266	.0015515	.001705	.000187	.0058683	.0003349
%RSD	629.6682	167.7793	130.5086	118.1281	20.17999	4.690524	.2610976
#1	.0009425	-.000339	-.000511	-.002198	-.000711	.1275998	.1281323
#2	.0006569	.000457	.001549	-.002642	-.001018	.1184081	.1286364
#3	-.001078	.002612	.002528	.000509	-.001050	.1293244	.1280024

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000546	.0003522	42.83698	.0016766	.0014875	-.000012	6.265978
Stddev	.0000471	.0000282	.41793	.0004729	.0002134	.000382	.044554
%RSD	86.29962	8.013507	.9756349	28.20563	14.34268	3266.761	.7110520
#1	.0000744	.0003350	43.17419	.0011831	.0012957	.000423	6.232425
#2	.0000008	.0003368	42.96734	.0017208	.0017173	-.000292	6.316529
#3	.0000887	.0003848	42.36940	.0021258	.0014496	-.000167	6.248979

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.693903	8.176501	.0028746	.0007835	208.2445	.0020648	.0095383
Stddev	.013551	.090110	.0001063	.0000689	2.8256	.0005286	.0002044
%RSD	.7999947	1.102060	3.698357	8.793272	1.356859	25.60190	2.143391
#1	1.703733	8.255992	.0029125	.0007039	205.1569	.0014740	.0094056
#2	1.699532	8.194898	.0027545	.0008253	210.7015	.0022272	.0094355
#3	1.678445	8.078612	.0029567	.0008211	208.8750	.0024931	.0097737

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.315602	.1076557	-.000075	-.003420	.0020798	5.850356	.3736235
Stddev	.103839	.0013486	.000091	.000673	.0005349	.056780	.0032706
%RSD	1.248726	1.252704	121.9508	19.68445	25.71596	.9705451	.8753631
#1	8.212549	.1082850	-.000132	-.002798	.0024247	5.801172	.3738951
#2	8.420210	.1085746	-.000123	-.003327	.0014637	5.912494	.3767497
#3	8.314046	.1061075	.000030	-.004135	.0023512	5.837403	.3702255

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-01 Acquired: 10/28/2024 15:11:27 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.169768	.0076637	.2933992
Stddev	.015765	.0014749	.0013308
%RSD	.3780745	19.24486	.4535703
#1	4.152711	.0080306	.2930510
#2	4.172790	.0060400	.2948694
#3	4.183803	.0089205	.2922771

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2795.390	61873.67	14411.01	2045.307	4285.846
Stddev	33.421	522.57	94.60	27.376	37.801
%RSD	1.195570	.8445786	.6564508	1.338462	.8819975
#1	2830.767	62387.74	14339.54	2070.773	4324.851
#2	2791.055	61342.99	14375.20	2016.355	4283.310
#3	2764.348	61890.26	14518.29	2048.793	4249.377

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV03 Acquired: 10/28/2024 15:15:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	5.062488	4.679713	4.942768	5.153365	5.183922	9.973660	9.729484
Stddev	.002637	.037292	.005445	.003077	.014901	.019924	.091148
%RSD	.0520808	.7968798	.1101703	.0597071	.2874480	.1997708	.9368241
#1	5.061158	4.708865	4.943009	5.153103	5.166796	9.996622	9.725881
#2	5.065525	4.692583	4.937206	5.150428	5.193918	9.960931	9.822381
#3	5.060781	4.637691	4.948089	5.156565	5.191054	9.963428	9.640191

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2415574	2.470381	24.03607	.9796005	2.481167	1.293155	5.001033
Stddev	.0029271	.005765	.08672	.0022733	.004567	.001501	.039416
%RSD	1.211775	.2333534	.3607888	.2320636	.1840631	.1160384	.7881493
#1	.2449053	2.472364	24.12578	.9796519	2.482320	1.292647	4.966656
#2	.2402857	2.463886	23.95269	.9773019	2.476135	1.291974	4.992389
#3	.2394812	2.474891	24.02973	.9818476	2.485047	1.294843	5.044053

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.353686	23.84078	2.489294	1.274866	25.46956	2.446509	2.595657
Stddev	.003837	.16843	.006716	.001430	.31273	.006729	.004666
%RSD	.1630349	.7064828	.2697942	.1122003	1.227847	.2750256	.1797428
#1	2.354991	24.02922	2.491739	1.276308	25.11391	2.453470	2.598857
#2	2.349366	23.70489	2.481698	1.273447	25.59322	2.440040	2.590304
#3	2.356700	23.78822	2.494444	1.274842	25.70155	2.446016	2.597811

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.95437	4.805906	5.212965	4.917964	4.793592	5.174903	5.317994
Stddev	.30437	.040493	.005808	.012062	.003951	.058665	.010523
%RSD	1.172720	.8425684	.1114115	.2452697	.0824294	1.133650	.1978677
#1	25.62545	4.848676	5.207286	4.931282	4.789066	5.118082	5.330103
#2	26.01156	4.800884	5.212714	4.907774	4.795352	5.171372	5.312815
#3	26.22608	4.768158	5.218894	4.914835	4.796357	5.235253	5.311066

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV03 Acquired: 10/28/2024 15:15:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.819499	4.793973	4.929712
Stddev	.011290	.037063	.041008
%RSD	.2342506	.7731207	.8318454
#1	4.832429	4.751258	4.976005
#2	4.814471	4.817623	4.897943
#3	4.811596	4.813037	4.915187

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2737.065	60168.48	12990.38	1944.868	4249.148
Stddev	3.586	214.64	93.53	6.696	1.652
%RSD	.1309984	.3567260	.7200187	.3442866	.0388702
#1	2739.600	60410.23	12907.37	1952.028	4247.449
#2	2732.962	60000.32	12972.06	1938.760	4249.247
#3	2738.632	60094.88	13091.72	1943.816	4250.748

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB03 Acquired: 10/28/2024 15:20:03 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000322	-.001047	.0006655	-.000471	-.001266	-.001255	-.003887
Stddev	.002173	.001520	.0009843	.000664	.000951	.002122	.000234
%RSD	675.1505	145.1441	147.9008	140.9503	75.14898	169.1279	6.015006
#1	.001923	-.001288	.0014232	-.000800	-.000976	.000034	-.004042
#2	-.002416	.000579	-.000447	-.000906	-.000494	-.003705	-.003618
#3	-.000472	-.002432	.001020	.000293	-.002329	-.000094	-.004002

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000267	.0000623	.0025698	-.000410	.0001228	-.001232	-.016834
Stddev	.0000461	.0000967	.0071769	.000109	.0001393	.000333	.001336
%RSD	172.6770	155.3061	279.2798	26.65933	113.4842	26.99525	7.936160
#1	.0000156	.0000291	-.005698	-.000296	.0001543	-.001616	-.017576
#2	-.000013	.0001712	.006215	-.000421	.0002436	-.001032	-.017635
#3	.000077	-.000014	.007193	-.000514	-.000030	-.001049	-.015292

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000304	.0041654	.0002397	.0008741	-.060564	-.000182	-.004654
Stddev	.000363	.0012231	.0001843	.0003091	.007053	.001241	.000181
%RSD	119.4199	29.36351	76.87720	35.36291	11.64564	682.2248	3.880026
#1	.000113	.0032059	.0000916	.0010546	-.068708	-.001477	-.004862
#2	-.000471	.0055426	.0001815	.0010505	-.056467	-.000064	-.004533
#3	-.000554	.0037476	.0004461	.0005172	-.056517	.000996	-.004567

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069615	-.001913	.0002182	.0022735	.0001432	-.010741	-.002346
Stddev	.0097728	.000334	.0002113	.0002431	.0001927	.002288	.000184
%RSD	140.3836	17.47166	96.83768	10.69188	134.5694	21.30037	7.864298
#1	-.004152	-.001637	-.000014	.0020144	.0002214	-.013382	-.002304
#2	.014215	-.001816	.000268	.0023096	.0002845	-.009393	-.002186
#3	.010821	-.002284	.000400	.0024965	-.000076	-.009447	-.002548

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB03 Acquired: 10/28/2024 15:20:03 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000056	-.003188	.0000029
Stddev	.001460	.001871	.0000149
%RSD	2626.954	58.69733	507.1146
#1	.001008	-.005339	.0000199
#2	.000544	-.002291	-.000008
#3	-.001719	-.001934	-.000003

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2918.361	63490.33	13962.51	2051.387	4901.529
Stddev	22.393	79.98	70.84	6.619	21.420
%RSD	.7672980	.1259796	.5073915	.3226740	.4370115
#1	2896.583	63527.36	13884.37	2047.262	4878.441
#2	2917.178	63545.08	14022.56	2059.021	4905.391
#3	2941.321	63398.54	13980.59	2047.876	4920.756

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-01DUP Acquired: 10/28/2024 15:24:23 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0018658	.0003349	.0006107	-.003206	-.001553	.1472643	.1401474
Stddev	.0043039	.0009474	.0005565	.000748	.000472	.0080449	.0084798
%RSD	230.6745	282.8437	91.12085	23.32193	30.38927	5.462924	6.050611
#1	.0049385	.0002827	-.000023	-.004064	-.001135	.1538100	.1492817
#2	.0037120	-.000585	.000838	-.002861	-.001459	.1382830	.1325256
#3	-.003053	.001307	.001018	-.002694	-.002064	.1497000	.1386350

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000554	.0003151	46.38444	.0017917	.0013829	-.000599	6.591596
Stddev	.0000560	.0001111	3.03903	.0003751	.0000651	.000260	.037142
%RSD	101.1500	35.25172	6.551836	20.93594	4.711255	43.50453	.5634777
#1	.0001145	.0004149	49.73603	.0020588	.0013134	-.000727	6.600291
#2	.0000486	.0001954	43.80816	.0013628	.0014425	-.000769	6.623620
#3	.0000030	.0003348	45.60915	.0019534	.0013929	-.000299	6.550878

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.836701	8.845108	.0030054	.0008144	219.5212	.0029846	.0107059
Stddev	.117075	.611026	.0003494	.0001831	4.7453	.0008418	.0003049
%RSD	6.374192	6.908072	11.62585	22.48449	2.161661	28.20358	2.847911
#1	1.966594	9.512474	.0033862	.0006718	215.4723	.0027318	.0104354
#2	1.739316	8.313132	.0029303	.0010209	224.7430	.0039238	.0110363
#3	1.804192	8.709717	.0026996	.0007505	218.3482	.0022982	.0106460

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.808663	.1189323	.0001985	-.004282	.0029342	6.202847	.3732922
Stddev	.062864	.0059939	.0001783	.000665	.0002040	.039845	.0022842
%RSD	.7136653	5.039720	89.81213	15.54081	6.950578	.6423716	.6119071
#1	8.761801	.1256763	.0002783	-.004809	.0027363	6.201376	.3729910
#2	8.880103	.1142132	.0003229	-.003534	.0031437	6.243408	.3757121
#3	8.784084	.1169073	-.000006	-.004503	.0029227	6.163758	.3711736

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-01DUP Acquired: 10/28/2024 15:24:23 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.195880	.0094126	.3219664
Stddev	.035596	.0028941	.0193206
%RSD	.8483532	30.74709	6.000817
#1	4.158493	.0123930	.3428088
#2	4.199784	.0066134	.3046545
#3	4.229363	.0092312	.3184358

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2771.741	59359.83	13441.44	1949.572	4257.070
Stddev	22.435	783.22	695.36	25.271	27.865
%RSD	.8094149	1.319438	5.173286	1.296219	.6545677
#1	2797.202	60217.07	12709.96	1978.638	4287.512
#2	2763.147	58681.64	14093.94	1932.805	4250.872
#3	2754.874	59180.79	13520.43	1937.273	4232.825

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-01LX5 Acquired: 10/28/2024 15:28:47 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000259	-.000896	.0000990	-.000263	.0005856	.0348312	.0247453
Stddev	.001729	.001145	.0004314	.002422	.0008416	.0005426	.0005449
%RSD	668.6725	127.8193	435.7983	921.7663	143.7084	1.557663	2.202245
#1	-.000662	-.001813	.0002127	-.000821	.0003223	.0344863	.0244088
#2	.001637	-.001261	-.000378	-.002357	-.000093	.0345507	.0253741
#3	-.001751	.000387	.000462	.002390	.001527	.0354566	.0244532

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000012	.0000310	9.057180	-.000348	.0004315	-.000844	1.262696
Stddev	.0000345	.0000867	.063965	.000178	.0001355	.000570	.003399
%RSD	2841.842	279.5669	.7062312	50.98254	31.39874	67.49680	.2692088
#1	.0000410	.0000515	9.081288	-.000238	.0003464	-.000433	1.260631
#2	-.000018	-.000064	9.105588	-.000254	.0005877	-.001494	1.266619
#3	-.000019	.000106	8.984665	-.000553	.0003603	-.000605	1.260838

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3624209	1.708410	.0007683	.0008103	42.02767	-.000696	-.002107
Stddev	.0027446	.012558	.0002755	.0001753	.24885	.000647	.000502
%RSD	.7572824	.7350406	35.86362	21.62733	.5921146	92.90322	23.82022
#1	.3637556	1.706611	.0009620	.0009894	42.27433	-.000003	-.002474
#2	.3642428	1.721770	.0004529	.0008025	42.03200	-.000802	-.001535
#3	.3592643	1.696849	.0008901	.0006391	41.77668	-.001283	-.002311

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.658494	.0202160	-.000018	.0003146	.0032671	1.148277	.0691159
Stddev	.018130	.0003496	.000158	.0004996	.0036976	.006064	.0024475
%RSD	1.093155	1.729241	873.2274	158.7828	113.1752	.5280668	3.541147
#1	1.665947	.0205993	-.000184	.0008424	.0011944	1.149450	.0701333
#2	1.671710	.0201341	.000130	-.000151	.0010709	1.153668	.0663238
#3	1.637826	.0199147	-.000000	.000253	.0075361	1.141712	.0708906

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-01LX5 Acquired: 10/28/2024 15:28:47 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7912704	-.000395	.0624833
Stddev	.0011306	.000774	.0005453
%RSD	.1428897	196.1431	.8727539
#1	.7917277	-.001264	.0629283
#2	.7921007	.000220	.0626466
#3	.7899827	-.000140	.0618749

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2850.700	62113.53	13856.02	2058.490	4537.622
Stddev	8.375	228.30	100.84	18.065	8.048
%RSD	.2937921	.3675575	.7277833	.8776049	.1773581
#1	2845.134	61906.23	13784.03	2046.027	4532.261
#2	2846.634	62076.15	13812.76	2050.234	4533.729
#3	2860.332	62358.22	13971.28	2079.208	4546.876

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-02MS Acquired: 10/28/2024 15:33:06 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7747241	1.669641	.9072365	1.976658	.8122339	2.095593	.3093364
Stddev	.0025512	.009916	.0007779	.008015	.0022468	.019662	.0021377
%RSD	.3293035	.5939190	.0857464	.4054669	.2766136	.9382403	.6910509
#1	.7725270	1.665616	.9077824	1.967717	.8118600	2.096871	.3086594
#2	.7741232	1.662370	.9075814	1.979062	.8101975	2.114584	.3117306
#3	.7775221	1.680937	.9063458	1.983196	.8146441	2.075323	.3076192

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1878816	.1826179	44.20484	.3783088	.1948374	.3006981	9.602778
Stddev	.0009162	.0005261	.30101	.0007655	.0002618	.0005580	.098603
%RSD	.4876754	.2881138	.6809451	.2023470	.1343840	.1855695	1.026815
#1	.1879828	.1828083	44.41112	.3781203	.1950331	.3002084	9.713715
#2	.1887430	.1830224	44.34398	.3776553	.1945399	.3005803	9.525121
#3	.1869189	.1820231	43.85944	.3791510	.1949390	.3013056	9.569498

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.863683	10.04002	.4888672	.0776064	211.7852	.2777934	.2291267
Stddev	.012773	.05824	.0007831	.0002882	2.6737	.0022296	.0009467
%RSD	.6853401	.5800664	.1601869	.3713691	1.262438	.8026054	.4131814
#1	1.872147	10.09312	.4895916	.0775476	214.7932	.2767892	.2293930
#2	1.869911	10.04920	.4889737	.0773521	209.6793	.2803485	.2299117
#3	1.848991	9.97774	.4880363	.0779194	210.8830	.2762425	.2280754

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.49524	.3763527	.4088830	.6766798	.1844089	6.639924	6.960714
Stddev	.10401	.0024178	.0011333	.0008771	.0010468	.046316	.002831
%RSD	.5623415	.6424408	.2771654	.1296149	.5676756	.6975416	.0406748
#1	18.57822	.3762098	.4079848	.6758397	.1848437	6.691354	6.962850
#2	18.37856	.3788389	.4085080	.6775897	.1851683	6.601504	6.957502
#3	18.52893	.3740095	.4101563	.6766100	.1832148	6.626916	6.961790

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-02MS Acquired: 10/28/2024 15:33:06 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	3.815603	.1792346	.4827625
Stddev	.012790	.0020088	.0028089
%RSD	.3352094	1.120740	.5818317
#1	3.801859	.1769326	.4813026
#2	3.817791	.1806320	.4860007
#3	3.827158	.1801392	.4809842

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2789.614	61464.81	14019.19	2025.803	4261.814
Stddev	18.776	281.18	77.62	4.999	17.080
%RSD	.6730703	.4574680	.5537052	.2467796	.4007776
#1	2800.756	61228.32	14035.85	2024.093	4269.413
#2	2800.150	61775.71	13934.59	2021.883	4273.775
#3	2767.936	61390.39	14087.13	2031.432	4242.252

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-03MSD Acquired: 10/28/2024 15:37:12 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.8044071	1.803250	.9323092	2.080076	.8478706	2.026474	.3106552
Stddev	.0024303	.015024	.0033470	.009389	.0022343	.011574	.0010715
%RSD	.3021266	.8331402	.3590023	.4513799	.2635237	.5711621	.3449227
#1	.8053349	1.789350	.9345096	2.072939	.8464129	2.039617	.3114732
#2	.8016496	1.801211	.9284574	2.076578	.8467559	2.017798	.3110502
#3	.8062369	1.819189	.9339606	2.090712	.8504430	2.022008	.3094423

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1900786	.1880817	42.38450	.3839730	.2000520	.3107719	8.956364
Stddev	.0014082	.0004862	.11881	.0009542	.0007289	.0011994	.072989
%RSD	.7408302	.2584989	.2803237	.2485165	.3643641	.3859264	.8149364
#1	.1890504	.1884093	42.49298	.3829624	.2008104	.3094063	9.034637
#2	.1895017	.1875230	42.25752	.3848586	.1993567	.3112550	8.944291
#3	.1916836	.1883127	42.40301	.3840979	.1999889	.3116543	8.890165

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.791873	9.658908	.5013619	.0798711	206.3387	.2868368	.2350161
Stddev	.008318	.033114	.0012996	.0003527	2.3497	.0006158	.0003380
%RSD	.4642001	.3428362	.2592083	.4415560	1.138744	.2147007	.1438249
#1	1.801250	9.672942	.5019316	.0795420	205.3379	.2873949	.2353647
#2	1.785384	9.621088	.4998748	.0798278	204.6551	.2861761	.2349938
#3	1.788986	9.682694	.5022794	.0802434	209.0230	.2869396	.2346898

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.88709	.3739950	.4270610	.6971490	.1884220	6.407129	6.993842
Stddev	.15354	.0020636	.0019293	.0019818	.0005758	.053875	.008798
%RSD	.8129479	.5517684	.4517726	.2842698	.3056041	.8408533	.1257959
#1	19.01352	.3730104	.4249778	.6993530	.1879183	6.460213	6.992825
#2	18.93151	.3726081	.4274188	.6965803	.1890498	6.408678	6.985596
#3	18.71623	.3763664	.4287864	.6955138	.1882981	6.352497	7.003104

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-03MSD Acquired: 10/28/2024 15:37:12 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	3.575779	.1836885	.4821639
Stddev	.010134	.0025170	.0012906
%RSD	.2834121	1.370270	.2676655
#1	3.576332	.1833683	.4833126
#2	3.565380	.1863503	.4824118
#3	3.585625	.1813469	.4807674

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2748.393	60913.74	14083.14	1964.883	4232.119
Stddev	17.459	66.57	75.07	9.283	14.138
%RSD	.6352607	.1092874	.5330825	.4724320	.3340721
#1	2768.181	60872.50	14137.75	1954.724	4248.208
#2	2735.158	60878.17	14114.14	1967.003	4221.678
#3	2741.840	60990.54	13997.53	1972.923	4226.470

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-01A Acquired: 10/28/2024 15:41:17 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.8216529	1.837627	.9409909	2.101165	.8572771	2.084764	.3146563
Stddev	.0010806	.011156	.0021490	.005671	.0035952	.005158	.0004547
%RSD	.1315098	.6070733	.2283804	.2699060	.4193728	.2474151	.1445066
#1	.8204052	1.839782	.9411018	2.096099	.8569722	2.090138	.3147421
#2	.8222735	1.825551	.9430823	2.107292	.8610150	2.084302	.3150621
#3	.8222800	1.847548	.9387886	2.100105	.8538440	2.079853	.3141649

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1889148	.1903763	43.37536	.3870790	.2026381	.3160642	9.422831
Stddev	.0011796	.0003878	.39953	.0004880	.0003727	.0011723	.027958
%RSD	.6244236	.2037043	.9210971	.1260817	.1839484	.3708915	.2967071
#1	.1898706	.1908119	43.63974	.3873219	.2023779	.3152098	9.437462
#2	.1892773	.1900685	43.57060	.3865171	.2030651	.3174006	9.440437
#3	.1875964	.1902485	42.91576	.3873979	.2024713	.3155822	9.390593

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.846135	9.874138	.5091654	.0809714	216.5261	.2893344	.2406261
Stddev	.014508	.113303	.0008589	.0004017	1.7713	.0040454	.0002560
%RSD	.7858403	1.147471	.1686915	.4961214	.8180310	1.398178	.1064057
#1	1.853783	9.977542	.5096559	.0807500	218.4292	.2918809	.2404222
#2	1.855219	9.891850	.5096667	.0814351	214.9258	.2914524	.2405425
#3	1.829404	9.753022	.5081736	.0807290	216.2234	.2846697	.2409135

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.71045	.3763604	.4338923	.7066652	.1897751	6.793097	7.101267
Stddev	.05284	.0021814	.0012464	.0012461	.0009045	.021708	.028087
%RSD	.2680976	.5796055	.2872665	.1763385	.4766367	.3195617	.3955244
#1	19.66954	.3788764	.4335522	.7079609	.1903601	6.770432	7.113635
#2	19.69169	.3752074	.4352735	.7065594	.1902318	6.813702	7.121049
#3	19.77011	.3749975	.4328513	.7054754	.1887332	6.795156	7.069119

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-01A Acquired: 10/28/2024 15:41:17 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.112826	.1851798	.4921925
Stddev	.011258	.0005369	.0013167
%RSD	.2737256	.2899445	.2675109
#1	4.114991	.1856286	.4922318
#2	4.100644	.1845850	.4934890
#3	4.122845	.1853259	.4908566

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2687.102	59476.64	14054.04	1914.387	4140.965
Stddev	14.091	124.21	52.50	5.271	11.599
%RSD	.5244041	.2088458	.3735839	.2753141	.2800924
#1	2695.014	59618.21	14039.25	1920.131	4143.993
#2	2670.833	59425.77	14010.52	1913.257	4128.153
#3	2695.459	59385.93	14112.35	1909.773	4150.750

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-04 Acquired: 10/28/2024 15:45:23 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0021443	.0020460	.0007625	-.001358	.0007353	.0798042
Stddev	.0041168	.0010278	.0001679	.001178	.0009134	.0061172
%RSD	191.9880	50.23583	22.02680	86.79626	124.2110	7.665229
#1	-.000422	.0023930	.0008490	-.000904	.0016495	.0828683
#2	.006893	.0008896	.0008694	-.002695	.0007338	.0727605
#3	-.000038	.0028554	.0005689	-.000474	-.000177	.0837838

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1616507	.0000788	.0004312	67.43764	.0065118	.0105827
Stddev	.0002597	.0000168	.0000712	.37240	.0001211	.0002070
%RSD	.1606814	21.29908	16.50810	.5522080	1.859754	1.956099
#1	.1619479	.0000810	.0004591	67.86307	.0066474	.0106027
#2	.1614669	.0000611	.0003503	67.27911	.0064734	.0103664
#3	.1615374	.0000944	.0004842	67.17074	.0064145	.0107790

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002675	9.766242	1.917404	15.57534	.0078479	.0010498
Stddev	.000453	.039838	.006402	.12496	.0003868	.0001115
%RSD	16.93998	.4079149	.3338784	.8023167	4.928520	10.61640
#1	-.003062	9.801725	1.923585	15.71192	.0074038	.0011154
#2	-.002787	9.723147	1.910802	15.54738	.0080287	.0009211
#3	-.002176	9.773853	1.917826	15.46673	.0081112	.0011128

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	484.7071	.0000406	.0489635	15.48116	.1152999	-.000097
Stddev	2.1679	.0003013	.0006522	.06125	.0001611	.000203
%RSD	.4472672	742.9441	1.332081	.3956522	.1397049	208.9973
#1	482.7917	.0002022	.0493041	15.45065	.1151976	.000056
#2	484.2688	.0002265	.0493749	15.44115	.1152165	-.000020
#3	487.0606	-.000307	.0482115	15.55167	.1154856	-.000327

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P3440-04 Acquired: 10/28/2024 15:45:23 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.004422	.0006198	5.018704	.5810812	F 18.90240	.0115604
Stddev	.001015	.0006599	.035136	.0147255	.31378	.0008555
%RSD	22.95898	106.4812	.7001022	2.534160	1.659986	7.399811
#1	-.005552	-.000004	5.051288	.5739105	18.61507	.0118049
#2	-.004127	.000553	4.981477	.5713145	18.85491	.0106093
#3	-.003587	.001310	5.023346	.5980186	19.23721	.0122670

Elem	Sr4077
Units	ppm
Avg	.4913477
Stddev	.0012808
%RSD	.2606701
#1	.4900376
#2	.4914086
#3	.4925970

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2599.464	56358.77	14133.89	1864.039	3907.779
Stddev	44.523	203.86	18.05	15.302	63.585
%RSD	1.712762	.3617186	.1277183	.8209004	1.627144
#1	2626.641	56365.95	14143.30	1850.948	3945.541
#2	2623.669	56558.94	14145.31	1880.862	3943.428
#3	2548.083	56151.41	14113.08	1860.309	3834.367

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164476BL Acquired: 10/28/2024 15:49:46 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000806	-.001684	.0007936	-.000764	.0013205	.0007840	-.003685
Stddev	.002255	.001269	.0007981	.000280	.0007593	.0018835	.000151
%RSD	279.6184	75.33812	100.5578	36.65335	57.50169	240.2308	4.090004
#1	-.001236	-.003123	.0013771	-.000482	.0021337	.0029525	-.003592
#2	.001632	-.000723	.0011197	-.000766	.0006299	-.000156	-.003859
#3	-.002815	-.001208	-.000116	-.001042	.0011980	-.000444	-.003605

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000081	-.000042	-.001247	-.000238	.0000318	-.001170	-.017702
Stddev	.0000233	.000032	.005308	.000133	.0001026	.000326	.001730
%RSD	288.1328	77.65981	425.8467	55.88927	322.2862	27.89917	9.773919
#1	-.000006	-.000008	.004760	-.000380	-.000077	-.001309	-.015969
#2	-.000005	-.000045	-.005310	-.000116	.000046	-.000797	-.019430
#3	.000035	-.000073	-.003190	-.000219	.000127	-.001403	-.017708

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000184	-.001301	.0000073	.0007500	.1941419	-.000263	-.004836
Stddev	.000134	.003350	.0001736	.0001122	.0179371	.000199	.000371
%RSD	72.98881	257.5759	2365.163	14.95913	9.239157	75.56778	7.674983
#1	-.000145	-.001596	.0000851	.0006303	.2142777	-.000080	-.005264
#2	-.000073	.002188	.0001285	.0007669	.1882752	-.000234	-.004638
#3	-.000333	-.004493	-.000192	.0008528	.1798728	-.000474	-.004606

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0695878	-.005577	-.000264	.0021848	.0003800	-.016344	-.002404
Stddev	.0157404	.000440	.000146	.0004787	.0002093	.002163	.002280
%RSD	22.61952	7.887295	55.35895	21.91140	55.08050	13.23572	94.85291
#1	.0671836	-.005700	-.000217	.0027325	.0002649	-.018720	-.004879
#2	.0551877	-.005089	-.000427	.0019759	.0006216	-.014490	-.001942
#3	.0863919	-.005943	-.000147	.0018462	.0002535	-.015821	-.000390

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164476BL Acquired: 10/28/2024 15:49:46 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0013485	-.002626	-.000021
Stddev	.0020981	.002478	.000011
%RSD	155.5833	94.34547	51.49906
#1	.0036804	-.004806	-.000031
#2	-.000386	.000069	-.000010
#3	.000752	-.003141	-.000021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2971.766	65793.06	14021.11	2137.265	4984.492
Stddev	7.349	113.23	36.71	5.015	6.695
%RSD	.2472943	.1721016	.2618354	.2346592	.1343202
#1	2963.414	65662.50	14030.91	2131.488	4976.781
#2	2977.243	65864.48	14051.93	2139.801	4988.829
#3	2974.640	65852.19	13980.49	2140.506	4987.866

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164476BS Acquired: 10/28/2024 15:54:07 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7577115	1.785059	.9343145	1.930336	.8194164	1.954163
Stddev	.0018209	.030071	.0015185	.008570	.0042937	.007293
%RSD	.2403153	1.684608	.1625197	.4439527	.5239987	.3731939
#1	.7589146	1.786419	.9360103	1.932623	.8173535	1.947460
#2	.7556166	1.754331	.9338524	1.920854	.8165434	1.953100
#3	.7586033	1.814427	.9330808	1.937530	.8243523	1.961929

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1866828	.1907793	.1839442	.9932218	.3980015	.1983235
Stddev	.0008745	.0009482	.0001251	.0046811	.0012641	.0001914
%RSD	.4684230	.4969852	.0680061	.4713049	.3176137	.0965150
#1	.1876859	.1912426	.1838430	.9936805	.3973928	.1981039
#2	.1860811	.1914068	.1840841	.9976566	.3994548	.1984554
#3	.1862814	.1896886	.1839055	.9883282	.3971568	.1984110

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3219366	3.013495	.1887172	1.868979	.4990735	.0779462
Stddev	.0006286	.024715	.0007350	.005309	.0005343	.0001001
%RSD	.1952539	.8201287	.3894812	.2840586	.1070676	.1284915
#1	.3225160	3.030104	.1893959	1.870048	.4989522	.0779974
#2	.3212683	2.985093	.1888192	1.873672	.4996580	.0778308
#3	.3220255	3.025288	.1879365	1.863217	.4986102	.0780104

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.909497	.2892671	.2134131	10.24293	.2737705	.4311169
Stddev	.027854	.0012767	.0007200	.03695	.0010463	.0011575
%RSD	.9573417	.4413492	.3373661	.3607701	.3821867	.2684982
#1	2.928529	.2881753	.2126522	10.22965	.2746410	.4311885
#2	2.877527	.2906708	.2135033	10.21445	.2740608	.4299252
#3	2.922435	.2889550	.2140837	10.28468	.2726096	.4322369

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164476BS Acquired: 10/28/2024 15:54:07 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6821264	.1894831	.8779465	5.954369	F -.006561	.1747040
Stddev	.0014246	.0007513	.0021641	.015290	.000652	.0022554
%RSD	.2088508	.3964834	.2464993	.2567890	9.937850	1.290976
#1	.6831250	.1901869	.8797201	5.963821	-.006110	.1759400
#2	.6804950	.1895704	.8785843	5.962557	-.007309	.1721008
#3	.6827592	.1886920	.8755352	5.936728	-.006265	.1760712

Elem	Sr4077
Units	ppm
Avg	.1953089
Stddev	.0006078
%RSD	.3111724
#1	.1959959
#2	.1948416
#3	.1950891

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2912.742	64107.96	13939.21	2069.480	4776.942
Stddev	11.519	254.71	39.28	13.600	10.825
%RSD	.3954535	.3973125	.2818206	.6571861	.2266113
#1	2913.826	63914.40	13893.86	2066.023	4782.950
#2	2923.680	64396.52	13961.35	2084.475	4783.430
#3	2900.719	64012.98	13962.43	2057.941	4764.445

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-01 Acquired: 10/28/2024 15:58:07 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.009578	.0472260	.1535281	-.123838	.0047998	183.2577
Stddev	.002626	.0009956	.0008908	.002110	.0008287	1.2037
%RSD	27.41999	2.108226	.5801953	1.704202	17.26625	.6568523
#1	-.008828	.0483539	.1537004	-.125913	.0051743	183.8008
#2	-.007408	.0468545	.1543201	-.121693	.0038499	184.0942
#3	-.012498	.0464695	.1525638	-.123909	.0053751	181.8781

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5087149	.0107057	.0874381	50.97392	1.060743	1.116908
Stddev	.0052728	.0001135	.0011202	.30876	.011552	.005844
%RSD	1.036501	1.060457	1.281190	.6057256	1.089088	.5232299
#1	.5054430	.0107860	.0873478	50.82750	1.073011	1.119822
#2	.5147976	.0107554	.0886008	51.32865	1.059146	1.120723
#3	.5059040	.0105758	.0863658	50.76560	1.050073	1.110180

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5380075	728.3866	1.880659	277.0545	.8481077	.0231647
Stddev	.0016652	3.8907	.016781	1.9001	.0050964	.0003741
%RSD	.3095040	.5341593	.8923134	.6858181	.6009150	1.614876
#1	.5398439	728.0103	1.877113	277.5757	.8487977	.0227835
#2	.5375825	732.4518	1.898929	278.6397	.8528239	.0235312
#3	.5365960	724.6976	1.865933	274.9482	.8427014	.0231794

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.317763	.4278923	.6992000	107.6596	.0833087	.0023332
Stddev	.008868	.0042311	.0030026	.4504	.0059544	.0001403
%RSD	.6729692	.9888332	.4294360	.4183438	7.147443	6.014154
#1	1.311663	.4256117	.6980632	107.4351	.0764354	.0023865
#2	1.327936	.4327744	.7026050	108.1781	.0868998	.0021740
#3	1.313690	.4252906	.6969317	107.3655	.0865908	.0024391

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-01 Acquired: 10/28/2024 15:58:07 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0249728	F 11.23388	5.191419	5.740241	F 287.5548	.9326577
Stddev	.0013526	.09105	.019210	.042515	3.0880	.0100860
%RSD	5.416154	.8105017	.3700316	.7406447	1.073897	1.081421
#1	.0251587	11.18329	5.208585	5.734964	286.7847	.9230513
#2	.0262228	11.33899	5.195001	5.785148	290.9550	.9431631
#3	.0235369	11.17936	5.170670	5.700611	284.9246	.9317589

Elem	Sr4077
Units	ppm
Avg	-.667385
Stddev	.003479
%RSD	.5212919
#1	-.667510
#2	-.670801
#3	-.663846

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2942.491	67363.55	16420.74	2106.310	3740.044
Stddev	20.494	191.20	97.06	18.689	32.520
%RSD	.6964846	.2838308	.5910889	.8872821	.8695029
#1	2937.682	67317.89	16449.38	2127.571	3729.547
#2	2924.828	67199.32	16312.58	2092.479	3714.069
#3	2964.961	67573.45	16500.25	2098.879	3776.516

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-04 Acquired: 10/28/2024 16:02:27 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0091285	-.009087	.3613584	-.026759	.0043019	39.32038
Stddev	.0012034	.001992	.0006156	.001955	.0010657	.02068
%RSD	13.18240	21.91819	.1703471	7.304541	24.77275	.0525828
#1	.0103539	-.007780	.3609347	-.028178	.0041946	39.33739
#2	.0079485	-.008101	.3610760	-.024529	.0032939	39.32638
#3	.0090832	-.011379	.3620645	-.027569	.0054172	39.29736

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2529498	.0036763	.0391008	74.42028	.0409123	.0968908
Stddev	.0007887	.0000730	.0001553	.10264	.0001596	.0000619
%RSD	.3117916	1.986769	.3970509	.1379152	.3900749	.0638795
#1	.2537645	.0035924	.0392717	74.41842	.0409472	.0969538
#2	.2528949	.0037260	.0389685	74.52383	.0410515	.0968887
#3	.2521901	.0037104	.0390621	74.31858	.0407381	.0968300

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8550111	146.3548	1.304660	23.98727	.0705788	.0067078
Stddev	.0008244	.2916	.003690	.04391	.0001898	.0002074
%RSD	.0964203	.1992733	.2828559	.1830694	.2689627	3.091412
#1	.8559630	146.6048	1.307084	23.94248	.0707485	.0067996
#2	.8545361	146.4252	1.306484	24.03025	.0706142	.0068535
#3	.8545341	146.0344	1.300413	23.98907	.0703738	.0064704

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9832689	.1008307	1.052472	15.24048	.0325664	.0039421
Stddev	.0027017	.0003596	.001715	.06120	.0001731	.0000541
%RSD	.2747696	.3566424	.1629200	.4015704	.5314528	1.373136
#1	.9831442	.1005286	1.052623	15.30075	.0327440	.0038842
#2	.9806317	.1007350	1.050688	15.24230	.0323982	.0039914
#3	.9860308	.1012285	1.054107	15.17839	.0325570	.0039506

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-04 Acquired: 10/28/2024 16:02:27 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0728444	3.782981	7.068298	F 20.91125	5.465960	.0688833
Stddev	.0003460	.009864	.007585	.02855	.017932	.0003168
%RSD	.4750520	.2607566	.1073072	.1365391	.3280709	.4599391
#1	.0729528	3.792290	7.059686	20.94372	5.478674	.0690095
#2	.0731233	3.784011	7.073982	20.89996	5.445449	.0685228
#3	.0724572	3.772642	7.071226	20.89007	5.473757	.0691176

Elem	Sr4077
Units	ppm
Avg	-.056226
Stddev	.000098
%RSD	.1736589
#1	-.056167
#2	-.056173
#3	-.056339

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5424.032	123128.1	28524.89	3904.281	4018.105
Stddev	27.316	169.1	75.03	7.382	14.345
%RSD	.5036112	.1373040	.2630261	.1890843	.3570081
#1	5396.671	123010.1	28503.95	3896.740	4001.640
#2	5424.123	123052.4	28462.55	3904.608	4024.771
#3	5451.303	123321.8	28608.16	3911.494	4027.903

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV04 Acquired: 10/28/2024 16:06:32 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	5.015714	4.906435	4.865150	5.103876	5.104089	9.815482	9.796338
Stddev	.011399	.091371	.004762	.013609	.006832	.015197	.065831
%RSD	.2272688	1.862261	.0978824	.2666480	.1338540	.1548285	.6720000
#1	5.004369	4.917747	4.870044	5.089591	5.096207	9.808815	9.811627
#2	5.015609	4.809935	4.860532	5.105346	5.107744	9.832873	9.724208
#3	5.027166	4.991623	4.864874	5.116691	5.108316	9.804758	9.853180

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2387173	2.439769	23.79630	.9742398	2.446988	1.274325	4.964778
Stddev	.0012686	.003583	.09304	.0038460	.000957	.001019	.033311
%RSD	.5314067	.1468625	.3909929	.3947715	.0390914	.0799353	.6709531
#1	.2372874	2.441662	23.79856	.9732005	2.447909	1.273672	4.972345
#2	.2397076	2.435636	23.70215	.9784987	2.445999	1.275499	4.928335
#3	.2391569	2.442008	23.88820	.9710203	2.447056	1.273806	4.993656

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.331671	23.47711	2.455974	1.259023	25.48342	2.414243	2.562423
Stddev	.016812	.09538	.001168	.000251	.06609	.002524	.004300
%RSD	.7210283	.4062663	.0475580	.0199451	.2593494	.1045474	.1678115
#1	2.331441	23.46663	2.456773	1.258837	25.54939	2.414573	2.557509
#2	2.314975	23.38740	2.454634	1.258923	25.41721	2.416585	2.564267
#3	2.348597	23.57730	2.456515	1.259309	25.48366	2.411570	2.565494

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.88558	4.740651	5.159498	4.884286	4.753225	5.083539	5.275178
Stddev	.06035	.014275	.006299	.010131	.011815	.030603	.003656
%RSD	.2331257	.3011208	.1220855	.2074225	.2485619	.6019972	.0693113
#1	25.92772	4.726266	5.152239	4.889909	4.748825	5.056904	5.272113
#2	25.81645	4.754813	5.162737	4.872590	4.744243	5.076747	5.274195
#3	25.91258	4.740875	5.163519	4.890359	4.766609	5.116968	5.279225

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV04 Acquired: 10/28/2024 16:06:32 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.802324	4.807168	4.908091
Stddev	.021631	.012004	.047839
%RSD	.4504296	.2497048	.9746942
#1	4.792377	4.808935	4.897446
#2	4.787455	4.794378	4.866472
#3	4.827139	4.818190	4.960356

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2804.336	61111.33	13240.04	2000.409	4343.801
Stddev	5.191	272.61	48.32	14.480	2.065
%RSD	.1850959	.4460908	.3649358	.7238413	.0475306
#1	2808.603	60855.24	13208.52	1992.369	4345.580
#2	2798.557	61397.90	13295.67	2017.125	4341.537
#3	2805.848	61080.85	13215.93	1991.733	4344.285

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB04 Acquired: 10/28/2024 16:10:43 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000668	-.002381	-.000398	.0008733	.0004006	.0046794	-.002470
Stddev	.001508	.000129	.000618	.0020259	.0014972	.0033965	.000661
%RSD	225.7912	5.400835	155.2853	231.9812	373.7659	72.58305	26.77341
#1	-.002203	-.002307	-.001093	-.000420	.0020306	.0026346	-.003225
#2	-.000610	-.002306	.000092	.003208	.0000844	.0086001	-.001991
#3	.000811	-.002529	-.000193	-.000168	-.000913	.0028036	-.002195

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000412	.0001275	-.001378	-.000354	.0001810	-.001304	-.013151
Stddev	.0000275	.0000268	.005603	.000312	.0002648	.000157	.002404
%RSD	66.84077	21.05654	406.6794	88.15392	146.2986	12.05917	18.28111
#1	.0000448	.0000967	.002909	-.000112	-.000012	-.001358	-.014091
#2	.0000668	.0001406	.000675	-.000243	.000483	-.001127	-.010419
#3	.0000121	.0001454	-.007717	-.000706	.000072	-.001428	-.014943

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000086	-.000820	.0001393	.0004512	-.059908	-.000552	-.004525
Stddev	.000221	.008798	.0001143	.0001063	.001491	.000179	.000234
%RSD	255.2516	1073.310	82.09361	23.55390	2.489511	32.34519	5.168991
#1	.000064	-.007914	.0000486	.0004691	-.059606	-.000383	-.004788
#2	.000016	-.003570	.0002677	.0005473	-.061528	-.000535	-.004342
#3	-.000340	.009025	.0001015	.0003371	-.058591	-.000739	-.004444

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0158152	-.001834	.0003122	.0020350	.0006123	-.009368	-.002391
Stddev	.0161989	.000413	.0001212	.0001549	.0002849	.002733	.002265
%RSD	102.4261	22.51747	38.81368	7.611411	46.52315	29.17175	94.71863
#1	.0288249	-.001358	.0002982	.0018670	.0009389	-.009083	-.000072
#2	-.002329	-.002045	.0004397	.0020660	.0004830	-.006788	-.002505
#3	.020949	-.002098	.0001986	.0021721	.0004151	-.012231	-.004598

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB04 Acquired: 10/28/2024 16:10:43 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0015567	-.000511	.0000770
Stddev	.0017540	.000608	.0000170
%RSD	112.6726	119.0056	22.09387
#1	.0015685	.000172	.0000919
#2	-.000203	-.000711	.0000585
#3	.003305	-.000993	.0000807

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2990.578	63225.79	13971.82	2101.821	5013.236
Stddev	6.921	96.87	28.76	5.147	7.518
%RSD	.2314227	.1532095	.2058751	.2448623	.1499548
#1	2983.155	63315.46	13946.77	2104.422	5005.500
#2	2991.727	63123.05	13965.46	2095.892	5013.693
#3	2996.853	63238.85	14003.24	2105.147	5020.515

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-07 Acquired: 10/28/2024 16:15:03 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0322035	-.022055	.2226745	-.040218	.0012294	166.1636
Stddev	.0036312	.005087	.0007553	.002528	.0017521	.7819
%RSD	11.27597	23.06536	.3391828	6.285662	142.5198	.4705689
#1	.0285024	-.017396	.2218360	-.037490	.0028037	166.1725
#2	.0357606	-.021288	.2228862	-.042481	-.000658	165.3772
#3	.0323475	-.027483	.2233014	-.040683	.001543	166.9410

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8569639	.0066455	.0205548	1729.042	.5309436	.0636440
Stddev	.0052458	.0000611	.0002846	2.893	.0070419	.0008162
%RSD	.6121360	.9188023	1.384683	.1673165	1.326303	1.282490
#1	.8609529	.0066184	.0203127	1732.379	.5237911	.0627441
#2	.8510217	.0067154	.0204833	1727.496	.5311701	.0638513
#3	.8589170	.0066027	.0208684	1727.250	.5378695	.0643366

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.240905	148.2032	3.131825	70.43633	.3002346	.0062575
Stddev	.039476	1.4411	.023010	.18318	.0033341	.0005282
%RSD	.7532268	.9724090	.7347208	.2600678	1.110487	8.441822
#1	5.208802	146.9176	3.153004	70.52579	.2975477	.0066130
#2	5.228931	147.9311	3.107341	70.22561	.2991903	.0065090
#3	5.284981	149.7611	3.135131	70.55759	.3039658	.0056505

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.38612	.2389227	2.071984	29.32455	.3214644	.0267126
Stddev	.21288	.0010704	.030453	.37043	.0015489	.0002531
%RSD	.9509543	.4480207	1.469764	1.263213	.4818386	.9476568
#1	22.21100	.2389222	2.039124	28.94683	.3203953	.0266264
#2	22.32428	.2378525	2.077571	29.33960	.3207573	.0265138
#3	22.62307	.2399933	2.099256	29.68724	.3232407	.0269976

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-07 Acquired: 10/28/2024 16:15:03 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.1316820	7.423591	F 84.36601	8.742735	F 80.25989	.6947577
Stddev	.0006032	.035579	1.07940	.041151	.73843	.0119787
%RSD	.4580544	.4792710	1.279423	.4706833	.9200430	1.724157
#1	.1314013	7.444291	83.27541	8.700716	79.66394	.6847665
#2	.1323743	7.382508	84.38877	8.744529	80.02976	.6914695
#3	.1312703	7.443974	85.43384	8.782958	81.08598	.7080371

Elem	Sr4077
Units	ppm
Avg	9.399969
Stddev	.086924
%RSD	.9247253
#1	9.302516
#2	9.427890
#3	9.469502

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2443.056	54941.49	14078.81	1775.511	3142.020
Stddev	19.148	620.95	50.98	26.260	22.645
%RSD	.7837853	1.130206	.3621014	1.478994	.7207155
#1	2458.430	55600.75	14035.50	1805.124	3161.616
#2	2449.130	54855.99	14134.99	1766.349	3147.215
#3	2421.607	54367.71	14065.93	1755.059	3117.229

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-09 Acquired: 10/28/2024 16:19:24 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.1009603	-.051396	.9759869	-.051840	.0040801	183.4476
Stddev	.0033128	.004800	.0008447	.003249	.0022425	.5663
%RSD	3.281263	9.338846	.0865459	6.267807	54.96166	.3086797
#1	.1047530	-.045879	.9768908	-.055191	.0029645	183.4298
#2	.0994955	-.053692	.9758524	-.051626	.0066616	182.8904
#3	.0986324	-.054616	.9752176	-.048703	.0026142	184.0226

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.592541	.0073997	.0358233	1789.490	F 2.306435	.1254819
Stddev	.007646	.0001335	.0004219	13.942	.009079	.0008268
%RSD	.4801301	1.804349	1.177712	.7790976	.3936421	.6589391
#1	1.600277	.0075276	.0354404	1802.998	2.313043	.1245479
#2	1.584988	.0074103	.0362756	1775.152	2.310179	.1261205
#3	1.592360	.0072612	.0357539	1790.320	2.296082	.1257771

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.768194	228.7069	6.443718	117.5922	.7985349	.0063321
Stddev	.024569	.6685	.050487	.8298	.0029529	.0002091
%RSD	.5152738	.2923051	.7835143	.7056181	.3697933	3.302716
#1	4.740994	228.1500	6.501260	118.5407	.7951382	.0063252
#2	4.788777	229.4483	6.406844	117.2357	.7999752	.0061265
#3	4.774812	228.5224	6.423050	117.0003	.8004914	.0065445

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.530145	.9396769	4.554497	52.33535	.1772641	.2552301
Stddev	.047931	.0049695	.005769	.25896	.0008748	.0006590
%RSD	.7339920	.5288575	.1266586	.4948016	.4935238	.2581953
#1	6.475113	.9454014	4.550112	52.06885	.1762849	.2546669
#2	6.562757	.9364699	4.561032	52.58604	.1779688	.2559549
#3	6.552564	.9371595	4.552347	52.35116	.1775386	.2550685

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-09 Acquired: 10/28/2024 16:19:24 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0603785	F 12.25587	F 74.60460	F 10.67111	F 72.94782	.8338361
Stddev	.0020784	.08282	2.40988	.05174	.40037	.0031997
%RSD	3.442316	.6757699	3.230207	.4848959	.5488423	.3837260
#1	.0595023	12.34710	75.71188	10.61136	72.50274	.8302670
#2	.0627515	12.18542	71.84009	10.70070	73.27863	.8347933
#3	.0588817	12.23509	76.26185	10.70127	73.06208	.8364478

Elem	Sr4077
Units	ppm
Avg	1.061192
Stddev	.002209
%RSD	.2081265
#1	1.059398
#2	1.063659
#3	1.060519

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2557.806	57908.71	15187.84	1821.766	3038.113
Stddev	18.990	183.38	123.59	13.180	19.333
%RSD	.7424154	.3166690	.8137310	.7234565	.6363350
#1	2577.668	58047.98	15045.25	1836.813	3058.779
#2	2539.829	57700.94	15264.18	1816.217	3020.469
#3	2555.920	57977.21	15254.09	1812.268	3035.090

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-11 Acquired: 10/28/2024 16:23:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0981082	-.037329	.9297776	-.052552	.0092745	175.4158
Stddev	.0025243	.005421	.0011547	.005035	.0032827	1.3632
%RSD	2.572960	14.52200	.1241904	9.580288	35.39497	.7771452
#1	.0960891	-.031077	.9296932	-.049447	.0101071	174.6099
#2	.0972971	-.040185	.9286673	-.049848	.0120606	174.6477
#3	.1009383	-.040724	.9309721	-.058361	.0056556	176.9898

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.466983	.0073065	.0317597	1780.065	F 2.023712	.1128453
Stddev	.004947	.0000838	.0002549	3.944	.006770	.0001829
%RSD	.3372159	1.147214	.8025038	.2215402	.3345406	.1620347
#1	1.471370	.0072109	.0317059	1777.801	2.017735	.1130444
#2	1.461621	.0073672	.0320372	1777.775	2.022335	.1128066
#3	1.467958	.0073415	.0315360	1784.619	2.031064	.1126849

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.944726	242.6712	6.293303	108.0309	.6878177	.0097983
Stddev	.010295	1.7285	.028421	.1447	.0012270	.0002036
%RSD	.1731786	.7122771	.4516052	.1339291	.1783882	2.078418
#1	5.944845	242.5138	6.295706	108.1095	.6888052	.0099557
#2	5.954960	241.0268	6.263757	107.8639	.6882038	.0095683
#3	5.934371	244.4730	6.320446	108.1192	.6864442	.0098710

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.648856	.9180637	5.281701	36.73836	.1860503	.2423190
Stddev	.032301	.0042513	.004343	.19513	.0021288	.0014425
%RSD	.5718126	.4630743	.0822222	.5311209	1.144224	.5953032
#1	5.642276	.9227814	5.277333	36.76507	.1857541	.2406607
#2	5.620352	.9145296	5.286018	36.53126	.1840850	.2432840
#3	5.683940	.9168802	5.281752	36.91876	.1883117	.2430123

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-11 Acquired: 10/28/2024 16:23:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0566534	F 11.21261	F 100.3609	6.971268	F 69.81518	.7780523
Stddev	.0014930	.03581	.3988	.054502	.65053	.0027753
%RSD	2.635379	.3193696	.3973274	.7818095	.9317846	.3566968
#1	.0583053	11.24408	100.7236	7.009118	69.06481	.7776613
#2	.0554001	11.17365	99.9339	6.995885	70.22022	.7810024
#3	.0562549	11.22011	100.4252	6.908800	70.16052	.7754933

Elem	Sr4077
Units	ppm
Avg	1.096675
Stddev	.009830
%RSD	.8963876
#1	1.106875
#2	1.087261
#3	1.095889

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2471.454	54451.51	14289.84	1750.180	3091.531
Stddev	3.361	208.62	25.47	6.797	4.663
%RSD	.1360093	.3831317	.1782256	.3883822	.1508187
#1	2471.488	54438.60	14265.30	1743.934	3087.628
#2	2468.076	54666.29	14316.14	1757.420	3090.271
#3	2474.798	54249.65	14288.06	1749.186	3096.694

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4575-01 Acquired: 10/28/2024 16:28:21 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0606480	.0058223	.3378483	-.067996	.0094864	167.9137
Stddev	.0008892	.0009472	.0021165	.002552	.0009833	.4916
%RSD	1.466216	16.26809	.6264678	3.753392	10.36530	.2927877
#1	.0615861	.0068717	.3386546	-.067998	.0104296	168.2346
#2	.0605405	.0055643	.3394432	-.070547	.0084674	168.1588
#3	.0598174	.0050308	.3354472	-.065443	.0095621	167.3477

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6849047	.0144955	.0370831	39.01494	.3134836	.2521371
Stddev	.0030385	.0001211	.0004541	.08569	.0004903	.0004910
%RSD	.4436436	.8351974	1.224658	.2196232	.1563928	.1947372
#1	.6829304	.0143808	.0372082	38.91993	.3129421	.2526637
#2	.6884037	.0146221	.0374616	39.08637	.3138974	.2516919
#3	.6833799	.0144837	.0365795	39.03851	.3136111	.2520557

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3642701	424.1812	5.272292	68.13902	.3689501	.0133717
Stddev	.0011656	2.7241	.016645	.08615	.0006164	.0006221
%RSD	.3199894	.6422092	.3157081	.1264261	.1670597	4.652613
#1	.3635917	424.9618	5.256381	68.03996	.3688344	.0136860
#2	.3656160	421.1519	5.289585	68.19638	.3683998	.0126551
#3	.3636025	426.4298	5.270909	68.18072	.3696161	.0137740

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.048154	.5179253	1.009282	18.68482	.4355884	.0073257
Stddev	.020345	.0014571	.002916	.02230	.0044549	.0002396
%RSD	.4030196	.2813303	.2889414	.1193695	1.022738	3.270974
#1	5.037460	.5173663	1.006684	18.66842	.4385787	.0070841
#2	5.071616	.5168304	1.012437	18.67582	.4304683	.0073297
#3	5.035387	.5195790	1.008726	18.71022	.4377181	.0075633

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4575-01 Acquired: 10/28/2024 16:28:21 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0368958	5.834466	F 17.96917	6.657169	1.888703	.3398760
Stddev	.0020932	.014557	.03096	.004593	.006799	.0013528
%RSD	5.673329	.2494969	.1723173	.0689996	.3599607	.3980218
#1	.0347959	5.827684	17.98075	6.652254	1.881257	.3405328
#2	.0389823	5.851176	17.93408	6.661354	1.894580	.3407749
#3	.0369090	5.824537	17.99267	6.657897	1.890274	.3383202

Elem	Sr4077
Units	ppm
Avg	-.267853
Stddev	.003275
%RSD	1.222501
#1	-.268950
#2	-.264171
#3	-.270439

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3001.282	64562.82	15637.71	2093.101	4035.654
Stddev	5.466	125.22	29.65	11.036	6.251
%RSD	.1821153	.1939503	.1896238	.5272663	.1549011
#1	2994.974	64428.74	15611.38	2085.329	4028.486
#2	3004.251	64676.73	15631.92	2105.733	4039.974
#3	3004.621	64582.99	15669.83	2088.240	4038.502

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01 Acquired: 10/28/2024 16:32:42 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0722100	.0008083	.3501547	-.047053	.0004934	171.6679
Stddev	.0003000	.0004155	.0017984	.000677	.0010930	.3484
%RSD	.4154320	51.40227	.5135886	1.439776	221.5286	.2029557
#1	.0720109	.0011653	.3503943	-.046273	.0012576	172.0668
#2	.0720642	.0009074	.3482486	-.047492	.0009812	171.5136
#3	.0725550	.0003522	.3518213	-.047393	-.000759	171.4233

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4807452	.0096433	.0291792	23.08723	.2737458	.1434283
Stddev	.0012315	.0000677	.0002081	.03618	.0003784	.0003037
%RSD	.2561628	.7022868	.7133158	.1567079	.1382135	.2117148
#1	.4821594	.0096467	.0289621	23.08199	.2740695	.1437760
#2	.4799094	.0095739	.0293770	23.12574	.2733299	.1432940
#3	.4801667	.0097092	.0291986	23.05396	.2738382	.1432150

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2023537	302.9186	2.859956	14.46078	.1518776	.0090765
Stddev	.0010617	1.0276	.010767	.08448	.0004575	.0004693
%RSD	.5246549	.3392232	.3764690	.5842066	.3012206	5.170768
#1	.2017054	303.2748	2.868470	14.38423	.1515808	.0093732
#2	.2017767	303.7206	2.863546	14.55142	.1516475	.0093208
#3	.2035789	301.7603	2.847853	14.44670	.1524045	.0085354

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.693742	.4717118	.4297862	7.461471	.0882166	.0039321
Stddev	.028099	.0020157	.0013682	.070725	.0010322	.0001561
%RSD	.7607261	.4273122	.3183389	.9478686	1.170061	3.969634
#1	3.693721	.4707436	.4311532	7.435786	.0870258	.0037703
#2	3.665653	.4703628	.4297886	7.407178	.0888565	.0039444
#3	3.721852	.4740289	.4284169	7.541450	.0887673	.0040817

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01 Acquired: 10/28/2024 16:32:42 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0168830	2.749747	F 20.06566	5.744869	2.718101	.0709563
Stddev	.0013282	.002058	.06692	.005831	.005653	.0011441
%RSD	7.867072	.0748287	.3334932	.1014925	.2079872	1.612409
#1	.0155974	2.751595	19.98897	5.739616	2.712005	.0722672
#2	.0168016	2.750117	20.09579	5.751143	2.723171	.0701593
#3	.0182500	2.747529	20.11221	5.743847	2.719128	.0704423

Elem	Sr4077
Units	ppm
Avg	-.181659
Stddev	.001115
%RSD	.6140062
#1	-.181879
#2	-.182648
#3	-.180450

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3264.620	72577.22	16956.05	2350.480	4208.146
Stddev	10.500	40.21	60.42	11.006	8.445
%RSD	.3216284	.0554072	.3563461	.4682343	.2006835
#1	3274.461	72610.67	16911.94	2356.000	4214.440
#2	3265.834	72588.38	16931.28	2337.807	4211.449
#3	3253.566	72532.60	17024.91	2357.634	4198.548

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01DUP Acquired: 10/28/2024 16:36:57 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0704985	.0022440	.3532915	-.046654	.0003493	173.5237
Stddev	.0035056	.0018609	.0007534	.005518	.0011140	.7076
%RSD	4.972561	82.93035	.2132478	11.82739	318.8822	.4077621
#1	.0724096	.0006213	.3526167	-.040580	.0016299	173.7559
#2	.0664526	.0042753	.3541044	-.051359	-.000396	174.0860
#3	.0726332	.0018354	.3531533	-.048022	-.000186	172.7292

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4840478	.0096105	.0291388	23.20905	.2732826	.1445694
Stddev	.0012046	.0001190	.0002683	.15232	.0011726	.0001312
%RSD	.2488564	1.238134	.9209048	.6562746	.4290910	.0907819
#1	.4847276	.0097442	.0288323	23.34094	.2745940	.1446415
#2	.4847588	.0095711	.0293318	23.24388	.2729187	.1446488
#3	.4826569	.0095163	.0292522	23.04234	.2723351	.1444179

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2004734	309.3031	2.852682	14.37531	.1532987	.0099570
Stddev	.0012356	.4992	.013211	.03662	.0002046	.0001697
%RSD	.6163215	.1613862	.4631250	.2547473	.1334464	1.704663
#1	.2018650	309.7795	2.865887	14.38251	.1534524	.0100925
#2	.1995052	309.3458	2.852695	14.40780	.1530665	.0100119
#3	.2000501	308.7839	2.839464	14.33562	.1533771	.0097666

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.802360	.4711691	.4358350	7.677895	.0958071	.0044042
Stddev	.015220	.0012563	.0031225	.028253	.0008037	.0001162
%RSD	.4002834	.2666364	.7164464	.3679800	.8388691	2.637766
#1	3.816344	.4726196	.4391018	7.670808	.0957085	.0043901
#2	3.786149	.4704590	.4355230	7.653860	.0950573	.0042958
#3	3.804588	.4704286	.4328802	7.709017	.0966556	.0045268

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01DUP Acquired: 10/28/2024 16:36:57 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0170328	2.764715	F 20.64783	5.747668	2.736711	.0718937
Stddev	.0018258	.008674	.05076	.005088	.006311	.0010596
%RSD	10.71915	.3137493	.2458428	.0885163	.2305913	1.473877
#1	.0190694	2.773006	20.59458	5.744077	2.731332	.0729826
#2	.0155428	2.765436	20.65322	5.753490	2.743658	.0718324
#3	.0164860	2.755702	20.69567	5.745438	2.735145	.0708660

Elem	Sr4077
Units	ppm
Avg	-.187111
Stddev	.000255
%RSD	.1361648
#1	-.187383
#2	-.187072
#3	-.186878

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3187.078	70657.53	16908.66	2278.513	4120.339
Stddev	11.712	67.29	47.15	5.367	12.847
%RSD	.3674709	.0952358	.2788555	.2355702	.3117953
#1	3198.135	70729.23	16873.83	2284.671	4133.876
#2	3188.292	70647.60	16889.83	2276.036	4118.826
#3	3174.807	70595.75	16962.31	2274.831	4108.316

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01LX5 Acquired: 10/28/2024 16:41:09 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0132738	-.000276	.0748502	-.012271	-.000155	40.44125	.1093386
Stddev	.0013717	.002707	.0002675	.001402	.000069	.06067	.0004989
%RSD	10.33394	981.1122	.3573695	11.42835	44.42219	.1500123	.4562786
#1	.0117066	.000398	.0751539	-.013257	-.000096	40.39524	.1098919
#2	.0138588	-.003256	.0746496	-.012890	-.000137	40.41851	.1089231
#3	.0142560	.002030	.0747472	-.010665	-.000231	40.51000	.1092007

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024045	.0041574	5.544520	.0654375	.0292062	.0492164	73.68710
Stddev	.0001115	.0000556	.013179	.0004156	.0001636	.0005908	.29795
%RSD	4.636624	1.336440	.2376989	.6350686	.5601151	1.200320	.4043465
#1	.0024616	.0042121	5.529327	.0649897	.0293934	.0498351	73.41288
#2	.0022760	.0041010	5.552867	.0658107	.0291348	.0486582	73.64428
#3	.0024758	.0041591	5.551367	.0655123	.0290905	.0491559	74.00415

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6823160	3.419560	.0316005	.0027491	.8002663	.1114555	.1004364
Stddev	.0028818	.026854	.0002616	.0000836	.0054800	.0003425	.0005721
%RSD	.4223515	.7853135	.8279561	3.040390	.6847678	.3072564	.5695638
#1	.6794502	3.410860	.0316815	.0027470	.7940159	.1111699	.1010309
#2	.6822842	3.398134	.0318120	.0026667	.8025370	.1113614	.0998898
#3	.6852135	3.449685	.0313079	.0028338	.8042459	.1118351	.1003887

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.758506	.0158325	.0004734	.0034625	.6541545	4.766802	1.130146
Stddev	.006784	.0006941	.0000697	.0005437	.0017146	.024407	.002114
%RSD	.3858040	4.383772	14.72151	15.70178	.2621148	.5120261	.1870211
#1	1.761847	.0150857	.0004014	.0028744	.6535388	4.739350	1.131381
#2	1.762972	.0164578	.0005406	.0035663	.6528327	4.786052	1.131351
#3	1.750699	.0159541	.0004783	.0039468	.6560920	4.775004	1.127705

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01LX5 Acquired: 10/28/2024 16:41:09 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.5408445	.0141742	-.044962
Stddev	.0050778	.0006520	.000333
%RSD	.9388632	4.600150	.7395643
#1	.5457072	.0145528	-.044603
#2	.5412503	.0134213	-.045022
#3	.5355760	.0145486	-.045260

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2991.246	62874.84	14744.32	2038.915	4607.431
Stddev	5.463	67.60	23.34	7.011	7.671
%RSD	.1826486	.1075143	.1583279	.3438507	.1664910
#1	2984.937	62935.76	14750.87	2037.093	4598.592
#2	2994.350	62802.12	14763.68	2032.995	4611.359
#3	2994.450	62886.64	14718.39	2046.657	4612.343

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01MS Acquired: 10/28/2024 16:45:23 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7074770	1.945884	1.224976	1.552723	.6790839	173.9354
Stddev	.0028526	.021745	.005327	.001903	.0040238	1.4362
%RSD	.4032042	1.117465	.4348939	.1225664	.5925292	.8256951
#1	.7083763	1.920911	1.224817	1.554441	.6795486	172.3299
#2	.7042832	1.960627	1.219731	1.553050	.6748480	174.3783
#3	.7097716	1.956113	1.230382	1.550677	.6828552	175.0979

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6464033	.1630401	.2097127	24.02630	.5939990	.3369424
Stddev	.0009481	.0005332	.0003258	.07175	.0008535	.0003353
%RSD	.1466791	.3270548	.1553483	.2986117	.1436847	.0995094
#1	.6460261	.1624551	.2096058	23.94440	.5930236	.3373064
#2	.6457019	.1634990	.2094538	24.05646	.5946086	.3366462
#3	.6474820	.1631662	.2100785	24.07805	.5943649	.3368746

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4359191	306.5941	3.019684	15.96289	.6366255	.0776121
Stddev	.0016714	.7018	.005870	.08496	.0001564	.0001602
%RSD	.3834149	.2289145	.1944054	.5322141	.0245630	.2064372
#1	.4340169	306.8326	3.013297	15.88109	.6365496	.0774372
#2	.4371528	305.8041	3.020912	16.05069	.6368053	.0777518
#3	.4365875	307.1456	3.024844	15.95689	.6365215	.0776473

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.371545	.7044802	.6085594	16.73241	.3003584	.3627321
Stddev	.030428	.0007156	.0027828	.07592	.0026311	.0008550
%RSD	.4775648	.1015765	.4572721	.4537464	.8759746	.2357077
#1	6.395957	.7042948	.6116682	16.80109	.3032811	.3618299
#2	6.337455	.7052702	.6063011	16.65088	.2996154	.3628363
#3	6.381223	.7038755	.6077090	16.74525	.2981787	.3635303

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01MS Acquired: 10/28/2024 16:45:23 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6879237	2.935865	F 21.48149	F 11.47000	2.628511	.2202045
Stddev	.0013990	.001463	.07026	.01447	.009039	.0018717
%RSD	.2033591	.0498256	.3270573	.1261272	.3438865	.8499903
#1	.6869006	2.936711	21.54734	11.46726	2.629232	.2186607
#2	.6895179	2.936708	21.40753	11.48564	2.637168	.2196664
#3	.6873528	2.934176	21.48959	11.45709	2.619133	.2222863

Elem	Sr4077
Units	ppm
Avg	-.020417
Stddev	.000404
%RSD	1.978520
#1	-.020616
#2	-.019952
#3	-.020683

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3277.104	70961.55	16560.71	2298.097	4226.015
Stddev	2.732	158.28	48.84	7.555	6.830
%RSD	.0833779	.2230527	.2948951	.3287636	.1616282
#1	3276.706	70876.67	16617.05	2289.664	4223.432
#2	3280.013	71144.17	16530.52	2304.248	4233.760
#3	3274.592	70863.82	16534.55	2300.379	4220.853

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01MSD Acquired: 10/28/2024 16:49:28 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7117218	1.910934	1.243250	1.556109	.6848054	175.6581
Stddev	.0019917	.035441	.000924	.005024	.0022458	.2589
%RSD	.2798432	1.854647	.0743263	.3228273	.3279518	.1473966
#1	.7098193	1.870153	1.244153	1.552116	.6829251	175.4141
#2	.7115540	1.928360	1.242307	1.554463	.6872922	175.9297
#3	.7137921	1.934288	1.243290	1.561750	.6841990	175.6305

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6475235	.1673129	.2147192	24.13619	.5936163	.3412847
Stddev	.0013593	.0009706	.0003984	.02616	.0026597	.0004356
%RSD	.2099268	.5801291	.1855413	.1083979	.4480511	.1276466
#1	.6459542	.1684335	.2147452	24.16372	.5965272	.3417808
#2	.6483329	.1667367	.2143085	24.11164	.5913130	.3411086
#3	.6482836	.1667685	.2151040	24.13322	.5930086	.3409647

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4535830	293.7411	3.024486	16.03743	.6456573	.0748913
Stddev	.0014173	1.7315	.005315	.06349	.0007684	.0003995
%RSD	.3124706	.5894708	.1757266	.3958600	.1190140	.5334901
#1	.4549297	291.8823	3.024567	16.05843	.6455272	.0745990
#2	.4537151	294.0326	3.019131	15.96610	.6449623	.0753465
#3	.4521043	295.3083	3.029760	16.08775	.6464825	.0747283

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.140992	.7084076	.5989889	16.31549	.2826104	.3662756
Stddev	.035779	.0011417	.0012600	.11055	.0034707	.0006860
%RSD	.5826275	.1611682	.2103583	.6775495	1.228103	.1872851
#1	6.099723	.7097239	.5983312	16.18841	.2792074	.3655422
#2	6.159965	.7078131	.6004417	16.38943	.2824786	.3663831
#3	6.163289	.7076858	.5981937	16.36864	.2861451	.3669014

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01MSD Acquired: 10/28/2024 16:49:28 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7001917	2.976031	F 21.79345	F 11.72754	2.628366	.2242074
Stddev	.0015781	.007663	.16975	.00427	.015048	.0013657
%RSD	.2253779	.2575016	.7788868	.0363721	.5725138	.6091083
#1	.7005813	2.969141	21.62182	11.72286	2.610991	.2226559
#2	.6984553	2.984285	21.79728	11.72852	2.636920	.2247388
#3	.7015384	2.974668	21.96125	11.73122	2.637187	.2252275

Elem	Sr4077
Units	ppm
Avg	-.005424
Stddev	.001357
%RSD	25.01991
#1	-.003959
#2	-.005676
#3	-.006638

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3276.884	73327.31	16357.42	2355.139	4210.896
Stddev	.687	175.47	62.02	10.825	4.165
%RSD	.0209801	.2392943	.3791834	.4596275	.0989100
#1	3276.201	73528.34	16286.64	2367.578	4209.402
#2	3276.875	73204.90	16383.35	2347.858	4215.602
#3	3277.576	73248.70	16402.28	2349.980	4207.685

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01A Acquired: 10/28/2024 16:53:33 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7151705	1.906799	1.234954	1.565429	.6840917	176.8469
Stddev	.0012945	.023834	.004484	.006605	.0014704	.6132
%RSD	.1810119	1.249943	.3630883	.4219445	.2149355	.3467179
#1	.7140001	1.884377	1.230774	1.560107	.6825486	176.5570
#2	.7149504	1.904190	1.234398	1.563360	.6854765	177.5512
#3	.7165610	1.931830	1.239691	1.572822	.6842500	176.4324

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6555992	.1626587	.2136033	24.23969	.5903887	.3409602
Stddev	.0025055	.0004484	.0005952	.03621	.0014236	.0004872
%RSD	.3821689	.2756656	.2786702	.1493687	.2411286	.1428973
#1	.6535829	.1629853	.2133113	24.25939	.5890420	.3404065
#2	.6584041	.1628434	.2132105	24.19791	.5902458	.3413234
#3	.6548104	.1621475	.2142882	24.26178	.5918784	.3411508

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4507628	300.3808	3.022367	15.94945	.6441828	.0756293
Stddev	.0019456	.3135	.005419	.03351	.0007951	.0005058
%RSD	.4316360	.1043515	.1793045	.2101067	.1234230	.6687895
#1	.4491611	300.3273	3.019188	15.95767	.6432729	.0750479
#2	.4529280	300.0976	3.028624	15.91260	.6445316	.0759687
#3	.4501992	300.7176	3.019289	15.97809	.6447439	.0758712

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.386217	.7105546	.6158695	16.63501	.2864639	.3642757
Stddev	.018839	.0007836	.0031161	.01342	.0003806	.0009867
%RSD	.2949927	.1102836	.5059683	.0806798	.1328497	.2708682
#1	6.364780	.7114496	.6166483	16.64757	.2868844	.3632800
#2	6.393738	.7099918	.6124378	16.62087	.2863643	.3642940
#3	6.400135	.7102225	.6185223	16.63659	.2861430	.3652532

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4577-01A Acquired: 10/28/2024 16:53:33 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6915296	2.996529	F 21.86171	F 11.58125	2.669448	.2249552
Stddev	.0015309	.014241	.02705	.00726	.018082	.0012586
%RSD	.2213748	.4752573	.1237224	.0626993	.6773694	.5595074
#1	.6916623	2.983326	21.88091	11.57889	2.648928	.2238953
#2	.6899367	3.011620	21.83078	11.57545	2.676371	.2263463
#3	.6929898	2.994641	21.87344	11.58939	2.683047	.2246240

Elem	Sr4077
Units	ppm
Avg	-.009891
Stddev	.000870
%RSD	8.798830
#1	-.010485
#2	-.008892
#3	-.010297

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3219.264	71983.93	16489.26	2298.533	4149.634
Stddev	4.227	49.25	23.86	5.729	7.822
%RSD	.1313138	.0684151	.1447037	.2492531	.1885009
#1	3220.275	71947.27	16489.06	2299.596	4151.744
#2	3222.895	72039.91	16465.51	2303.657	4156.185
#3	3214.623	71964.61	16513.23	2292.347	4140.974

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV05 Acquired: 10/28/2024 16:57:38 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	5.207036	5.467993	4.986098	5.397662	5.312928	10.01957	9.804964
Stddev	.004546	.046674	.010236	.008171	.005019	.01280	.042909
%RSD	.0873028	.8535769	.2052939	.1513844	.0944612	.1277813	.4376236
#1	5.204338	5.416314	4.976058	5.389366	5.310885	10.02848	9.816402
#2	5.204486	5.480588	4.985716	5.397917	5.309253	10.00490	9.757495
#3	5.212284	5.507076	4.996519	5.405702	5.318646	10.02533	9.840995

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2412824	2.491122	23.89823	.9649848	2.494542	1.310964	4.899050
Stddev	.0010474	.007124	.09426	.0022388	.005880	.001248	.026028
%RSD	.4341031	.2859707	.3944084	.2320052	.2357311	.0951674	.5312833
#1	.2417133	2.483640	23.82346	.9640228	2.488060	1.312330	4.872356
#2	.2420455	2.491903	24.00411	.9675439	2.496029	1.309885	4.900437
#3	.2400882	2.497824	23.86712	.9633878	2.499535	1.310677	4.924356

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.316987	23.68000	2.500363	1.276816	25.67253	2.422779	2.606542
Stddev	.009173	.08595	.005359	.000489	.02787	.003680	.006870
%RSD	.3958806	.3629595	.2143373	.0383275	.1085500	.1518834	.2635581
#1	2.309605	23.58111	2.495370	1.277137	25.64035	2.419281	2.598699
#2	2.327256	23.73671	2.499694	1.277058	25.68832	2.426617	2.611489
#3	2.314101	23.72219	2.506025	1.276253	25.68891	2.422440	2.609439

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.20070	4.808812	5.381329	4.993427	4.798459	5.334723	5.188510
Stddev	.06068	.017288	.006786	.017986	.012795	.032876	.025334
%RSD	.2315866	.3595121	.1261062	.3602003	.2666522	.6162596	.4882638
#1	26.15391	4.815269	5.377681	4.973148	4.791172	5.299670	5.163185
#2	26.17893	4.821943	5.377146	4.999683	4.813233	5.339628	5.188495
#3	26.26926	4.789225	5.389158	5.007451	4.790972	5.364871	5.213852

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV05 Acquired: 10/28/2024 16:57:38 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.942922	4.808281	4.964650
Stddev	.012567	.025007	.032899
%RSD	.2542419	.5200832	.6626734
#1	4.928655	4.804331	4.938900
#2	4.947762	4.835027	5.001713
#3	4.952350	4.785483	4.953336

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2724.390	60934.40	13154.79	1922.639	4255.042
Stddev	11.256	36.10	38.57	4.262	8.803
%RSD	.4131541	.0592440	.2932321	.2216610	.2068871
#1	2711.741	60925.24	13139.90	1926.525	4246.833
#2	2733.302	60974.20	13125.88	1923.310	4264.338
#3	2728.126	60903.77	13198.58	1918.081	4253.956

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB05 Acquired: 10/28/2024 17:01:49 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0005311	-.001226	.0004288	.0008660	.0011380	.0069992	-.003560
Stddev	.0005584	.000575	.0003424	.0004565	.0011082	.0013293	.000385
%RSD	105.1547	46.92613	79.85022	52.71688	97.38707	18.99228	10.81933
#1	.0002074	-.000694	.0002623	.0013910	.0000739	.0085153	-.003773
#2	.0011759	-.001148	.0002015	.0005624	.0010544	.0064485	-.003791
#3	.0002099	-.001836	.0008226	.0006446	.0022856	.0060337	-.003115

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000546	.0000195	-.001976	-.000418	.0001623	-.001053	-.014647
Stddev	.0000343	.0000269	.006614	.000124	.0001320	.000427	.000811
%RSD	62.86862	137.8198	334.6480	29.75629	81.31226	40.57345	5.539817
#1	.0000448	-.000006	.003226	-.000512	.0000557	-.001256	-.015287
#2	.0000928	.000048	-.009420	-.000465	.0001212	-.001342	-.013734
#3	.0000263	.000017	.000264	-.000277	.0003099	-.000562	-.014919

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000123	.0030558	.0001841	.0006076	-.078681	.0001192	-.004604
Stddev	.000082	.0057925	.0002167	.0000838	.005115	.0011394	.000194
%RSD	66.57019	189.5593	117.6879	13.79298	6.500464	955.6719	4.208266
#1	-.000109	.0087144	.0004045	.0007036	-.083974	-.000812	-.004676
#2	-.000211	-.002862	.0001765	.0005694	-.078305	-.000220	-.004751
#3	-.000049	.003315	-.000029	.0005496	-.073765	.001390	-.004385

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009325	-.002444	.0000558	.0019271	.0008338	-.003750	-.001356
Stddev	.011271	.000315	.0000894	.0005527	.0002415	.003556	.000809
%RSD	120.8632	12.87855	160.0015	28.68012	28.96285	94.81898	59.61718
#1	.000282	-.002777	.0000943	.0021909	.0009769	.000246	-.000537
#2	-.021733	-.002402	-.000046	.0012919	.0009694	-.006564	-.001378
#3	-.006526	-.002152	.000120	.0022985	.0005550	-.004933	-.002154

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB05 Acquired: 10/28/2024 17:01:49 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0021366	-.001261	.0000058
Stddev	.0026084	.000487	.0000094
%RSD	122.0805	38.61482	160.9534
#1	.0030562	-.001299	.0000148
#2	.0041607	-.000756	.0000066
#3	-.000807	-.001727	-.000004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2904.206	62918.37	13936.12	2029.894	4880.786
Stddev	6.762	40.03	52.36	5.917	10.595
%RSD	.2328346	.0636253	.3756877	.2914745	.2170789
#1	2896.471	62881.01	13877.05	2035.288	4868.998
#2	2908.995	62913.48	13954.52	2023.566	4883.843
#3	2907.152	62960.62	13976.79	2030.827	4889.516

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164439BL Acquired: 10/28/2024 17:06:10 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000101	-.001891	-.000946	-.001647	-.000238	.0044567	-.003071
Stddev	.001716	.000924	.000224	.000620	.000226	.0028531	.000586
%RSD	1698.339	48.89227	23.66100	37.62455	95.00608	64.01899	19.08434
#1	.001589	-.002707	-.000964	-.001642	-.000495	.0011983	-.003329
#2	-.001843	-.000887	-.000714	-.001030	-.000067	.0065072	-.002400
#3	-.000050	-.002079	-.001161	-.002270	-.000153	.0056646	-.003484

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000291	.0000437	.0001911	-.000080	.0001682	-.001175	-.013491
Stddev	.0000092	.0000173	.0033560	.000171	.0001016	.000447	.002077
%RSD	31.57310	39.68743	1756.572	214.9434	60.39867	38.04959	15.39636
#1	.0000368	.0000368	-.002139	-.000001	.0002841	-.001675	-.014226
#2	.0000316	.0000308	-.001325	-.000276	.0000948	-.000814	-.011146
#3	.0000189	.0000634	.004038	.000038	.0001256	-.001036	-.015100

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000286	.0003933	.0002181	.0007045	-.087979	-.000372	-.004731
Stddev	.000054	.0061189	.0001698	.0001232	.010658	.000497	.000347
%RSD	18.82706	1555.812	77.85670	17.48281	12.11397	133.6990	7.343664
#1	-.000230	.0073796	.0000600	.0007644	-.098218	-.000674	-.004490
#2	-.000289	-.002186	.0003975	.0007863	-.088771	-.000643	-.004573
#3	-.000338	-.004013	.0001968	.0005629	-.076947	.000202	-.005129

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005425	-.004297	-.000070	.0013998	.0007851	-.009997	-.002838
Stddev	.000772	.000309	.000188	.0007522	.0004707	.001064	.001166
%RSD	14.23140	7.201325	270.5695	53.73601	59.94977	10.64765	41.08844
#1	-.005756	-.004641	-.000223	.0022640	.0008290	-.008914	-.004159
#2	-.005976	-.004042	.000141	.0010430	.0002940	-.010034	-.001951
#3	-.004543	-.004208	-.000126	.0008924	.0012323	-.011042	-.002404

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164439BL Acquired: 10/28/2024 17:06:10 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0010232	-.001902	-.000019
Stddev	.0015746	.000687	.000021
%RSD	153.8876	36.12407	112.8263
#1	.0006346	-.002647	-.000013
#2	-.000321	-.001293	-.000042
#3	.002756	-.001766	-.000001

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2940.305	63774.49	13871.69	2072.517	4939.755
Stddev	5.387	158.61	48.23	12.158	6.018
%RSD	.1832029	.2486996	.3476589	.5866304	.1218227
#1	2944.388	63647.59	13824.40	2069.474	4938.148
#2	2934.200	63952.30	13869.86	2085.907	4934.703
#3	2942.328	63723.57	13920.80	2062.168	4946.413

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164439BS Acquired: 10/28/2024 17:10:31 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7579181	2.085517	.9452317	1.961221	.8316314	1.947298
Stddev	.0016101	.021194	.0020314	.005391	.0046681	.011289
%RSD	.2124339	1.016224	.2149079	.2748988	.5613209	.5797310
#1	.7596141	2.081758	.9470520	1.966264	.8370007	1.949146
#2	.7564105	2.066455	.9430404	1.955538	.8293586	1.935199
#3	.7577297	2.108339	.9456027	1.961861	.8285349	1.957549

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1886248	.1956036	.1855910	.9966623	.4054352	.2000238
Stddev	.0004062	.0011448	.0002276	.0029731	.0005536	.0003384
%RSD	.2153321	.5852479	.1226499	.2983033	.1365490	.1691567
#1	.1883239	.1953315	.1857852	.9932646	.4052175	.2003325
#2	.1884636	.1946193	.1853405	.9979357	.4060646	.1996621
#3	.1890868	.1968598	.1856473	.9987866	.4050235	.2000766

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3212625	3.027057	.1883817	1.872126	.5015891	.0776833
Stddev	.0004354	.008980	.0009861	.006255	.0010646	.0003532
%RSD	.1355381	.2966585	.5234808	.3340973	.2122509	.4547191
#1	.3217322	3.037371	.1886213	1.871670	.5028183	.0774824
#2	.3211830	3.022825	.1872979	1.866112	.5009861	.0774763
#3	.3208723	3.020975	.1892260	1.878597	.5009628	.0780912

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.899035	.2860021	.2141870	10.36778	.2804322	.4430732
Stddev	.007571	.0005096	.0005128	.03269	.0017343	.0011436
%RSD	.2611547	.1781635	.2394296	.3153136	.6184409	.2581042
#1	2.897044	.2854485	.2135956	10.38341	.2806567	.4443853
#2	2.907402	.2861065	.2145089	10.38973	.2785966	.4425462
#3	2.892658	.2864514	.2144566	10.33021	.2820433	.4422882

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164439BS Acquired: 10/28/2024 17:10:31 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7061093	.1917115	F .7180163	5.917650	F -.009954	.1767074
Stddev	.0028631	.0006042	.0059216	.015076	.000423	.0015843
%RSD	.4054714	.3151336	.8247134	.2547556	4.250123	.8965850
#1	.7094150	.1911793	.7111907	5.932920	-.010418	.1759200
#2	.7044946	.1915870	.7210777	5.902776	-.009852	.1756711
#3	.7044183	.1923682	.7217805	5.917255	-.009591	.1785312

Elem	Sr4077
Units	ppm
Avg	.1955565
Stddev	.0004957
%RSD	.2535059
#1	.1958440
#2	.1949840
#3	.1958414

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2957.407	62716.86	13788.45	2064.184	4823.152
Stddev	11.652	90.60	72.32	7.843	12.996
%RSD	.3940106	.1444606	.5245316	.3799381	.2694434
#1	2944.292	62621.21	13772.46	2055.767	4808.744
#2	2966.567	62727.99	13867.43	2071.286	4833.990
#3	2961.363	62801.38	13725.45	2065.499	4826.721

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4452-03 Acquired: 10/28/2024 17:14:32 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.008567	-.012225	.0031696	.0007966	.0004409	.0016587	.4614617
Stddev	.003090	.001364	.0006053	.0012066	.0006161	.0030873	.0038718
%RSD	36.07422	11.15762	19.09813	151.4741	139.7347	186.1262	.8390181
#1	-.009505	-.011270	.0024988	-.000512	-.000247	-.001664	.4650402
#2	-.011080	-.013787	.0033347	.001036	.000943	.002201	.4619932
#3	-.005116	-.011617	.0036752	.001866	.000627	.004439	.4573516

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000162	-.000168	358.0229	.1892332	-.000076	.0018835	.0486003
Stddev	.000043	.000015	3.8311	.0013716	.000250	.0002302	.0019510
%RSD	26.27964	8.941950	1.070081	.7248159	329.1316	12.22260	4.014366
#1	-.000187	-.000161	359.1886	.1902549	.000108	.0020584	.0508488
#2	-.000186	-.000185	361.1358	.1876743	.000024	.0016227	.0473556
#3	-.000113	-.000157	353.7443	.1897703	-.000361	.0019695	.0475965

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050894	.0100746	.0021481	-.000159	499.4697	-.000086	.0355646
Stddev	.0001342	.0055967	.0003157	.000114	.6419	.000770	.0003488
%RSD	2.636180	55.55302	14.69895	71.85700	.1285232	899.4161	.9807546
#1	.0050559	.0121764	.0025080	-.000254	499.3095	.000127	.0357655
#2	.0049751	.0037312	.0020182	-.000032	498.9230	.000556	.0357664
#3	.0052371	.0143161	.0019180	-.000191	500.1766	-.000940	.0351618

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.45926	.0062924	.0503108	-.004790	-.007508	.1720055	-.004605
Stddev	.07961	.0001878	.0002350	.001445	.000301	.0034610	.002751
%RSD	.4312815	2.984677	.4670280	30.16526	4.014050	2.012174	59.73681
#1	18.52884	.0065034	.0505644	-.003336	-.007256	.1760019	-.002438
#2	18.37244	.0062301	.0501006	-.004808	-.007426	.1699909	-.003677
#3	18.47650	.0061435	.0502672	-.006225	-.007842	.1700236	-.007700

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4452-03 Acquired: 10/28/2024 17:14:32 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	1.150703	.0965933	.6007145
Stddev	.010527	.0013084	.0042383
%RSD	.9148230	1.354569	.7055450
#1	1.161631	.0953144	.6049932
#2	1.140630	.0965362	.6006324
#3	1.149847	.0979293	.5965178

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2385.172	53121.24	13169.23	1675.628	3636.566
Stddev	5.065	144.71	106.92	4.068	5.739
%RSD	.2123396	.2724061	.8118781	.2427739	.1578045
#1	2384.002	52965.36	13077.43	1675.159	3632.878
#2	2380.794	53251.30	13143.63	1679.909	3633.642
#3	2390.719	53147.07	13286.62	1671.814	3643.177

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4545-02 Acquired: 10/28/2024 17:19:06 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.009079	-.010818	.0171562	.0048518	.0018180	.2100285	.1701256
Stddev	.001947	.000411	.0005956	.0020014	.0003618	.0035915	.0015560
%RSD	21.44476	3.794624	3.471736	41.25181	19.90319	1.709989	.9145954
#1	-.007253	-.011196	.0166744	.0071567	.0018615	.2137013	.1711958
#2	-.008856	-.010877	.0169720	.0038454	.0021561	.2065243	.1708403
#3	-.011128	-.010381	.0178221	.0035532	.0014363	.2098598	.1683407

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000001	.0008421	44.07656	.0073185	.0031178	.0120784	.2046799
Stddev	.000037	.0001028	.33196	.0002689	.0001777	.0004580	.0030920
%RSD	3841.916	12.20851	.7531415	3.674511	5.698353	3.791526	1.510645
#1	-.000040	.0008874	44.22486	.0073818	.0033222	.0115829	.2036329
#2	.000004	.0009144	44.30853	.0070235	.0030307	.0121663	.2081595
#3	.000033	.0007244	43.69631	.0075501	.0030005	.0124861	.2022474

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5459103	2.266563	.0083565	.0006325	321.0444	.0001837	.0887089
Stddev	.0048753	.024434	.0001922	.0001582	1.0840	.0006263	.0005657
%RSD	.8930579	1.078026	2.300276	25.00851	.3376349	340.9176	.6377122
#1	.5493959	2.272067	.0083261	.0004709	320.8449	-.000240	.0880761
#2	.5479960	2.287775	.0081812	.0006396	322.2143	.000903	.0888849
#3	.5403392	2.239846	.0085621	.0007871	320.0741	-.000112	.0891656

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.825717	.0052727	.0005898	-.002512	.0053054	1.575727	.0075258
Stddev	.025910	.0004744	.0001688	.000114	.0006425	.007503	.0003060
%RSD	1.419188	8.996488	28.61352	4.550702	12.10941	.4761453	4.066523
#1	1.817111	.0049765	.0007203	-.002633	.0056007	1.569306	.0073495
#2	1.805205	.0058198	.0006498	-.002499	.0057471	1.583974	.0078792
#3	1.854835	.0050218	.0003992	-.002405	.0045684	1.573900	.0073488

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4545-02 Acquired: 10/28/2024 17:19:06 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	1.245170	.0106994	.2068983
Stddev	.005609	.0009354	.0015895
%RSD	.4504281	8.742054	.7682340
#1	1.247788	.0117276	.2080167
#2	1.248990	.0098991	.2075994
#3	1.238731	.0104715	.2050789

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2586.906	57130.24	13935.49	1799.957	4026.958
Stddev	15.323	165.82	111.69	13.909	13.121
%RSD	.5923334	.2902502	.8014810	.7727280	.3258240
#1	2571.542	57303.74	13848.33	1813.630	4012.468
#2	2586.988	56973.34	13896.75	1785.824	4030.368
#3	2602.188	57113.65	14061.39	1800.419	4038.037

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-04 Acquired: 10/28/2024 17:23:33 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.006374	-.010840	-.001122	.0035937	.0013372	.1745641	.2057839
Stddev	.000818	.001302	.001071	.0010638	.0003423	.0021911	.0003243
%RSD	12.82614	12.01526	95.49363	29.60160	25.59950	1.255193	.1575776
#1	-.005758	-.012246	.000073	.0043318	.0010589	.1723459	.2057350
#2	-.006063	-.009676	-.001443	.0023743	.0017195	.1746194	.2054869
#3	-.007301	-.010597	-.001995	.0040749	.0012334	.1767271	.2061299

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000053	.0004745	7.337054	.0086327	.0045868	.0466464	1.216129
Stddev	.000048	.0000077	.021677	.0003173	.0002045	.0005007	.007136
%RSD	91.33286	1.614028	.2954474	3.675450	4.458899	1.073315	.5867892
#1	-.000000	.0004808	7.324360	.0087213	.0045153	.0463854	1.224252
#2	-.000096	.0004767	7.324717	.0082805	.0048175	.0463302	1.213266
#3	-.000063	.0004659	7.362083	.0088963	.0044277	.0472236	1.210869

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.346038	1.640359	.0107546	.0005732	341.4910	-.000223	.0523651
Stddev	.012720	.010458	.0001262	.0001355	2.0027	.001021	.0005383
%RSD	.2926745	.6375495	1.173702	23.63889	.5864560	457.2335	1.027934
#1	4.345026	1.630678	.0106569	.0004701	342.9461	-.000889	.0521100
#2	4.333855	1.638947	.0107099	.0007267	342.3200	-.000733	.0529835
#3	4.359234	1.651451	.0108972	.0005229	339.2069	.000952	.0520018

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.055216	.0061713	.0000916	-.000747	.0048728	.5545526	.0068675
Stddev	.008191	.0004896	.0001490	.000398	.0005993	.0062150	.0020908
%RSD	.7762349	7.933488	162.7308	53.24124	12.29829	1.120719	30.44466
#1	1.048603	.0056509	-.000080	-.000770	.0048672	.5615882	.0061172
#2	1.064378	.0066227	.000183	-.001134	.0054749	.5522603	.0052554
#3	1.052666	.0062404	.000172	-.000339	.0042764	.5498094	.0092299

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-04 Acquired: 10/28/2024 17:23:33 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.2035586	.0004053	.0414754
Stddev	.0039763	.0010737	.0000194
%RSD	1.953403	264.9156	.0467576
#1	.2039661	.0007559	.0414684
#2	.1993942	.0012598	.0414974
#3	.2073154	-.000800	.0414605

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2632.212	57451.25	13788.23	1853.244	4083.367
Stddev	11.971	288.00	21.54	12.512	13.022
%RSD	.4547786	.5012910	.1562159	.6751393	.3189150
#1	2624.179	57128.74	13804.02	1842.096	4071.095
#2	2645.970	57542.25	13796.97	1850.860	4097.029
#3	2626.487	57682.75	13763.69	1866.776	4081.978

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-08 Acquired: 10/28/2024 17:28:00 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.009179	-.011589	-.001941	.0034998	.0012690	.1267307	.3420510
Stddev	.000933	.000446	.000725	.0012460	.0001847	.0048351	.0017384
%RSD	10.16847	3.846560	37.34144	35.60086	14.55583	3.815221	.5082143
#1	-.009996	-.011967	-.002292	.0035560	.0011285	.1249659	.3440060
#2	-.009381	-.011701	-.002424	.0047166	.0012002	.1322002	.3414677
#3	-.008162	-.011097	-.001108	.0022266	.0014782	.1230260	.3406794

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000058	.0004161	40.81106	.0097167	.0066957	.2694127	.1692396
Stddev	.000041	.0000486	.10952	.0006300	.0001428	.0014310	.0010512
%RSD	70.94075	11.68642	.2683682	6.483872	2.133187	.5311631	.6211061
#1	-.000030	.0003609	40.68950	.0091526	.0068605	.2709172	.1693164
#2	-.000105	.0004523	40.84162	.0103966	.0066099	.2680687	.1702502
#3	-.000039	.0004352	40.90205	.0096009	.0066165	.2692521	.1681521

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.794059	1.578630	.0093717	.0008337	373.8026	-.000621	.0402926
Stddev	.007676	.012093	.0000667	.0001976	.5997	.000332	.0002166
%RSD	.1601220	.7660564	.7119458	23.70450	.1604287	53.40663	.5375617
#1	4.802097	1.565037	.0092950	.0009253	373.2434	-.000455	.0400460
#2	4.786804	1.582656	.0094036	.0009688	373.7285	-.000405	.0404518
#3	4.793276	1.588197	.0094166	.0006069	374.4359	-.001003	.0403801

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7257502	.0038477	.0003172	-.002762	.0034966	.5107571	.0037583
Stddev	.0181328	.0003278	.0003602	.001276	.0003426	.0036715	.0035487
%RSD	2.498491	8.519563	113.5413	46.18135	9.798245	.7188249	94.42266
#1	.7196675	.0038324	.0007071	-.003724	.0031258	.5147983	.0032747
#2	.7114407	.0035278	.0002476	-.003247	.0038013	.5098460	.0004763
#3	.7461423	.0041829	-.000003	-.001315	.0035628	.5076270	.0075241

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-08 Acquired: 10/28/2024 17:28:00 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.2538166	.0085364	.0661005
Stddev	.0033582	.0010558	.0002888
%RSD	1.323074	12.36864	.4369598
#1	.2564801	.0081170	.0664333
#2	.2549256	.0097375	.0659153
#3	.2500442	.0077547	.0659529

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2633.217	57404.53	13775.98	1851.528	4035.168
Stddev	14.421	188.77	23.33	11.540	13.436
%RSD	.5476469	.3288467	.1693659	.6232816	.3329778
#1	2616.620	57317.82	13774.99	1839.163	4019.973
#2	2642.680	57274.69	13753.16	1853.408	4045.481
#3	2640.352	57621.08	13799.80	1862.013	4040.050

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4561-04 Acquired: 10/28/2024 17:32:26 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.008740	-.012986	-.001070	.0036862	.0005028	-.010719	.4163123
Stddev	.001194	.002518	.000198	.0005236	.0011823	.009971	.0019597
%RSD	13.65816	19.38770	18.52935	14.20480	235.1429	93.02205	.4707332
#1	-.007404	-.015020	-.001291	.0031868	.0016604	-.015267	.4142187
#2	-.009113	-.013766	-.001008	.0042311	.0005509	.000715	.4181028
#3	-.009702	-.010170	-.000909	.0036407	-.000703	-.017605	.4166155

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000288	.0002055	123.1222	.0011348	.0072147	.0200060	.0945102
Stddev	.000054	.0000822	.9242	.0000313	.0002756	.0003821	.0023925
%RSD	18.84886	39.97543	.7506718	2.761840	3.819903	1.909731	2.531426
#1	-.000225	.0002008	122.0549	.0011259	.0073577	.0201894	.0943970
#2	-.000313	.0002899	123.6551	.0011088	.0068969	.0195668	.0969573
#3	-.000324	.0001258	123.6565	.0011696	.0073893	.0202617	.0921764

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.828846	2.624161	.0025286	.0003599	327.7011	-.000085	.0220622
Stddev	.015013	.014847	.0000573	.0001257	2.7588	.000404	.0002762
%RSD	.5307270	.5657816	2.264106	34.91905	.8418671	473.2391	1.252003
#1	2.811608	2.607025	.0025203	.0004438	329.5073	-.000119	.0220329
#2	2.839059	2.633170	.0024759	.0004206	329.0704	-.000471	.0223518
#3	2.835871	2.632288	.0025895	.0002154	324.5255	.000334	.0218017

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6874812	-.000493	.0008876	-.003622	-.001251	.4529605	-.003014
Stddev	.0154560	.000288	.0001172	.000488	.000074	.0025213	.002428
%RSD	2.248206	58.34166	13.20573	13.46229	5.908419	.5566253	80.54242
#1	.6704866	-.000761	.0010176	-.004057	-.001287	.4513033	-.000812
#2	.6912587	-.000189	.0008551	-.003095	-.001166	.4517161	-.002612
#3	.7006983	-.000529	.0007900	-.003714	-.001300	.4558621	-.005618

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4561-04 Acquired: 10/28/2024 17:32:26 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.3125523	.0269046	.1582310
Stddev	.0061230	.0003427	.0006367
%RSD	1.959033	1.273813	.4023703
#1	.3118018	.0269222	.1575172
#2	.3068392	.0272382	.1587403
#3	.3190160	.0265535	.1584354

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2556.847	57182.16	13741.71	1814.700	3920.944
Stddev	13.677	278.24	45.13	15.178	15.275
%RSD	.5349140	.4865872	.3283956	.8363681	.3895673
#1	2557.165	57006.92	13778.16	1802.084	3919.893
#2	2570.363	57036.58	13691.24	1810.474	3936.717
#3	2543.014	57502.99	13755.75	1831.543	3906.222

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4561-08 Acquired: 10/28/2024 17:36:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.006655	-.008544	.0011179	.0026316	.0012208	.1923872	.2800380
Stddev	.001162	.001681	.0009794	.0013944	.0012055	.0015728	.0008870
%RSD	17.46333	19.68034	87.61189	52.98618	98.74408	.8175159	.3167364
#1	-.005927	-.010296	.0020886	.0013586	.0002113	.1916827	.2809227
#2	-.007995	-.008391	.0011352	.0024145	.0008956	.1912899	.2791487
#3	-.006042	-.006944	.0001299	.0041219	.0025555	.1941891	.2800426

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004119	.0002629	3.757846	.0045676	.0089633	.0032187	9.131583
Stddev	.0000166	.0000138	.011999	.0002434	.0001933	.0000553	.055821
%RSD	4.040170	5.247088	.3193055	5.328374	2.156205	1.718468	.6112987
#1	.0004285	.0002762	3.744148	.0042923	.0091769	.0031618	9.079855
#2	.0004118	.0002637	3.762896	.0046561	.0089124	.0032220	9.124142
#3	.0003953	.0002487	3.766495	.0047543	.0088006	.0032723	9.190751

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4690981	.5355049	.0120817	.0009671	359.6596	.0007676	.0435735
Stddev	.0001188	.0043739	.0002280	.0001078	2.0910	.0007102	.0003295
%RSD	.0253292	.8167857	1.887260	11.15049	.5813792	92.52768	.7560770
#1	.4689688	.5355065	.0121293	.0010846	362.0623	.0012945	.0431938
#2	.4691230	.5311302	.0122822	.0009438	358.2526	.0010483	.0437434
#3	.4692025	.5398781	.0118337	.0008728	358.6638	-.000040	.0437833

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5874589	.0023487	.0005249	-.001150	.0049790	.3652242	.0086324
Stddev	.0071024	.0004414	.0001390	.001046	.0006760	.0052002	.0025142
%RSD	1.209012	18.79473	26.49063	90.94040	13.57735	1.423849	29.12517
#1	.5808215	.0025552	.0004546	-.000953	.0050732	.3643827	.0113981
#2	.5949494	.0018419	.0004350	-.000217	.0042609	.3707939	.0064850
#3	.5866059	.0026490	.0006850	-.002281	.0056030	.3604961	.0080142

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4561-08 Acquired: 10/28/2024 17:36:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.2705891	-.000335	.0245912
Stddev	.0021370	.000315	.0000568
%RSD	.7897732	93.83956	.2309764
#1	.2730523	-.000068	.0246550
#2	.2694850	-.000257	.0245462
#3	.2692299	-.000682	.0245723

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2610.106	57791.98	13901.46	1838.578	4086.605
Stddev	5.251	129.92	14.94	4.284	6.893
%RSD	.2011778	.2248036	.1074886	.2329855	.1686736
#1	2614.904	57933.17	13887.54	1843.063	4094.184
#2	2610.918	57765.27	13899.58	1834.529	4084.921
#3	2604.496	57677.49	13917.25	1838.141	4080.710

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-04 Acquired: 10/28/2024 17:41:18 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.004998	-.011605	.0380382	.0044928	.0006185	.1363255	.1224330
Stddev	.003690	.000465	.0004452	.0004815	.0008303	.0051824	.0000413
%RSD	73.83351	4.002844	1.170509	10.71708	134.2393	3.801458	.0337179
#1	-.001534	-.011843	.0377820	.0050438	.0009961	.1385149	.1224223
#2	-.008879	-.011070	.0385523	.0041526	-.000333	.1304077	.1224785
#3	-.004581	-.011903	.0377802	.0042821	.001193	.1400538	.1223980

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000803	.0014567	18.23948	.0101891	.0174874	.0277208	.2084907
Stddev	.0000525	.0001073	.02559	.0001402	.0001760	.0001667	.0012817
%RSD	65.43498	7.367977	.1403199	1.375842	1.006200	.6015482	.6147511
#1	.0000948	.0014068	18.26517	.0103489	.0176534	.0276085	.2096165
#2	.0001241	.0013835	18.21398	.0101321	.0173029	.0276414	.2087599
#3	.0000220	.0015799	18.23929	.0100865	.0175059	.0279124	.2070959

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.169825	1.116237	.0212069	.0006409	352.5566	-.000186	.2209533
Stddev	.005106	.006303	.0001330	.0002246	1.2932	.000566	.0002425
%RSD	.4364965	.5646597	.6269897	35.04286	.3668136	304.1908	.1097541
#1	1.173143	1.110907	.0212943	.0004191	351.1416	.000089	.2209898
#2	1.163945	1.123194	.0212725	.0006354	352.8506	.000190	.2211755
#3	1.172386	1.114610	.0210539	.0008682	353.6774	-.000838	.2206946

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.370648	.0010552	.0004556	-.001417	.0028516	1.680934	.0679348
Stddev	.011469	.0003277	.0000595	.000488	.0001421	.010951	.0004937
%RSD	.4837934	31.05505	13.06735	34.41719	4.981873	.6514752	.7267614
#1	2.357738	.0006877	.0004798	-.001310	.0027415	1.668742	.0680040
#2	2.374549	.0011609	.0003878	-.001949	.0030119	1.689934	.0674101
#3	2.379659	.0013170	.0004992	-.000992	.0028012	1.684126	.0683902

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-04 Acquired: 10/28/2024 17:41:18 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.3084499	.0073318	.0902030
Stddev	.0012988	.0006336	.0003119
%RSD	.4210846	8.641401	.3457289
#1	.3074722	.0066026	.0905152
#2	.3079539	.0076449	.0898915
#3	.3099237	.0077478	.0902023

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2606.751	56285.18	13825.96	1802.801	4071.925
Stddev	5.463	118.96	50.96	7.729	2.171
%RSD	.2095743	.2113478	.3685879	.4287390	.0533191
#1	2606.091	56170.64	13767.85	1795.520	4070.054
#2	2601.648	56408.12	13863.04	1801.972	4071.414
#3	2612.514	56276.79	13846.98	1810.912	4074.305

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-08 Acquired: 10/28/2024 17:45:44 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.008483	-.011836	.0326602	.0053985	.0007735	.1362128	.1528097
Stddev	.001484	.001885	.0002903	.0014070	.0004477	.0043615	.0003383
%RSD	17.49146	15.92323	.8887833	26.06271	57.87886	3.201957	.2213760
#1	-.009440	-.010481	.0324686	.0066752	.0010038	.1315213	.1528927
#2	-.009236	-.011040	.0325178	.0038900	.0002575	.1401444	.1524376
#3	-.006774	-.013988	.0329942	.0056303	.0010592	.1369726	.1530987

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000378	.0019869	32.79982	.0032867	.0113937	.0093630	.8723391
Stddev	.0000389	.0000761	.14215	.0005257	.0001881	.0004061	.0040025
%RSD	102.8945	3.829773	.4333949	15.99328	1.650841	4.337410	.4588239
#1	.0000010	.0020743	32.70810	.0028628	.0112559	.0091288	.8677595
#2	.0000786	.0019509	32.96357	.0038749	.0113173	.0091282	.8740893
#3	.0000339	.0019355	32.72779	.0031224	.0116080	.0098319	.8751683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.154887	1.113405	.0168111	.0003871	387.0108	.0003955	.1697714
Stddev	.002146	.013240	.0002255	.0002495	1.7731	.0007424	.0003797
%RSD	.1858014	1.189158	1.341592	64.43700	.4581569	187.7055	.2236594
#1	1.152442	1.101179	.0168630	.0001923	385.2180	.0003341	.1701023
#2	1.156454	1.127468	.0165642	.0003008	388.7636	-.000314	.1693569
#3	1.155767	1.111570	.0170062	.0006683	387.0508	.001167	.1698551

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.318728	.0049396	.0004772	-.001229	.0008531	1.977311	.0056692
Stddev	.013640	.0003286	.0002311	.000988	.0001225	.012908	.0021033
%RSD	1.034321	6.652649	48.41901	80.40227	14.35949	.6527848	37.10152
#1	1.324547	.0049157	.0004458	-.001599	.0007862	1.971437	.0074270
#2	1.303143	.0046237	.0002635	-.001980	.0009944	1.992111	.0033389
#3	1.328492	.0052796	.0007224	-.000109	.0007786	1.968385	.0062416

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-08 Acquired: 10/28/2024 17:45:44 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6235563	.0077890	.1815162
Stddev	.0047901	.0010881	.0005634
%RSD	.7681928	13.97025	.3104144
#1	.6216565	.0084464	.1808779
#2	.6200075	.0065330	.1817262
#3	.6290049	.0083876	.1819445

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2621.688	57184.23	13734.93	1842.976	4057.301
Stddev	7.496	196.20	10.54	5.723	9.499
%RSD	.2859213	.3431000	.0767734	.3105202	.2341112
#1	2619.435	57146.37	13726.36	1846.604	4053.307
#2	2630.052	57009.72	13731.72	1836.379	4068.145
#3	2615.577	57396.60	13746.71	1845.945	4050.452

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV06 Acquired: 10/28/2024 17:50:10 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	5.079792	5.369578	4.966399	5.213951	5.167432	9.867954	9.782847
Stddev	.008481	.064731	.003398	.003052	.009574	.032581	.087095
%RSD	.1669598	1.205518	.0684177	.0585374	.1852786	.3301662	.8902869
#1	5.074447	5.443965	4.968407	5.213217	5.156936	9.892861	9.881588
#2	5.075359	5.326056	4.962476	5.211333	5.175686	9.879920	9.716946
#3	5.089571	5.338713	4.968314	5.217303	5.169675	9.831083	9.750008

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2445298	2.486409	23.97614	.9726703	2.484309	1.290460	4.879045
Stddev	.0008496	.003684	.08933	.0054591	.002808	.003217	.006625
%RSD	.3474439	.1481522	.3725750	.5612494	.1130389	.2492650	.1357818
#1	.2452350	2.486128	24.07789	.9701629	2.483984	1.288314	4.885941
#2	.2447680	2.482873	23.93989	.9789327	2.481677	1.288907	4.872730
#3	.2435866	2.490225	23.91063	.9689154	2.487265	1.294158	4.878464

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.321111	23.83914	2.488773	1.269170	24.85459	2.413135	2.577802
Stddev	.012533	.07607	.002492	.001664	.09994	.008451	.002834
%RSD	.5399393	.3190973	.1001322	.1311347	.4020884	.3502081	.1099280
#1	2.334596	23.92682	2.487427	1.268074	24.92873	2.422410	2.578172
#2	2.318918	23.79075	2.487244	1.271085	24.89411	2.411123	2.574802
#3	2.309820	23.79985	2.491649	1.268351	24.74094	2.405871	2.580433

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.64259	4.840235	5.274570	4.981446	4.766458	5.125705	5.285092
Stddev	.05292	.011384	.007890	.006938	.022133	.042463	.017783
%RSD	.2063773	.2351865	.1495825	.1392851	.4643568	.8284386	.3364708
#1	25.62327	4.849261	5.271428	4.983474	4.788709	5.080255	5.305072
#2	25.70245	4.843996	5.268735	4.973720	4.766221	5.132497	5.271000
#3	25.60204	4.827446	5.283546	4.987145	4.744444	5.164362	5.279204

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV06 Acquired: 10/28/2024 17:50:10 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.916158	4.744212	4.906139
Stddev	.021183	.029984	.010610
%RSD	.4308751	.6320225	.2162680
#1	4.940070	4.772785	4.916659
#2	4.899745	4.746860	4.895440
#3	4.908659	4.712992	4.906317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2806.968	61713.81	13155.74	1991.571	4340.911
Stddev	8.125	12.50	65.06	11.087	11.149
%RSD	.2894479	.0202560	.4945414	.5567167	.2568448
#1	2816.057	61699.39	13081.40	1985.691	4352.817
#2	2804.439	61721.45	13183.54	2004.360	4339.199
#3	2800.410	61720.60	13202.28	1984.663	4330.717

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB06 Acquired: 10/28/2024 17:54:23 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0004006	-.002253	-.000224	-.000534	.0003046	.0046127	-.003511
Stddev	.0008283	.000473	.000555	.001683	.0012811	.0027270	.000098
%RSD	206.7579	21.00146	247.2829	315.3904	420.5259	59.11944	2.791698
#1	.0013570	-.002317	-.000053	-.002430	.0017436	.0061198	-.003414
#2	-.000072	-.002691	-.000845	.000049	-.000118	.0014648	-.003610
#3	-.000083	-.001751	.000224	.000781	-.000712	.0062536	-.003508

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000376	.0000547	.0030816	-.000498	.0000658	-.001344	-.015660
Stddev	.0000605	.0000637	.0034883	.000407	.0001606	.000275	.003010
%RSD	160.6900	116.4534	113.1978	81.80098	244.0343	20.46820	19.22297
#1	.0001045	-.000016	.0045426	-.000028	-.000115	-.001061	-.014915
#2	-.000013	.000108	.0056019	-.000745	.000120	-.001610	-.018972
#3	.000022	.000073	-.000900	-.000721	.000192	-.001360	-.013091

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000138	.0009428	.0001518	.0006012	.1399425	.0001235	-.004699
Stddev	.000028	.0086001	.0003291	.0001058	.0055143	.0010958	.000221
%RSD	20.41846	912.2069	216.8220	17.58985	3.940374	887.2303	4.706234
#1	-.000170	.0009596	.0004042	.0005115	.1345392	-.000267	-.004912
#2	-.000120	-.007666	-.000220	.0007178	.1397270	-.000724	-.004470
#3	-.000123	.009534	.000272	.0005744	.1455614	.001361	-.004715

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0438646	-.003414	.0002113	.0019649	.0006877	-.008251	-.001762
Stddev	.0144799	.000271	.0001243	.0010320	.0002987	.004824	.001687
%RSD	33.01047	7.934966	58.84998	52.51982	43.43836	58.46474	95.77873
#1	.0549271	-.003313	.0003155	.0017098	.0005379	-.003866	-.003474
#2	.0491909	-.003721	.0002446	.0010844	.0004935	-.007468	-.001710
#3	.0274760	-.003209	.0000737	.0031005	.0010317	-.013418	-.000101

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB06 Acquired: 10/28/2024 17:54:23 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.001636	.0014694	.0000227
Stddev	.001730	.0003688	.0000209
%RSD	105.7398	25.10027	92.23420
#1	.000269	.0018084	.0000141
#2	-.002068	.0010767	.0000075
#3	-.003110	.0015232	.0000466

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2934.799	63283.29	14062.29	2049.199	4953.941
Stddev	3.532	31.72	57.15	4.734	2.754
%RSD	.1203569	.0501308	.4064299	.2310375	.0556019
#1	2933.804	63279.38	14008.33	2046.962	4952.072
#2	2931.870	63253.70	14056.36	2054.637	4952.647
#3	2938.722	63316.78	14122.18	2045.997	4957.104

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-12 Acquired: 10/28/2024 17:58:43 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.006400	-.010105	.0057370	.0043688	.0003170	.1298818	.1101494
Stddev	.001371	.000656	.0004267	.0021141	.0004336	.0024853	.0007009
%RSD	21.42352	6.496674	7.437694	48.39136	136.7713	1.913537	.6363436
#1	-.007979	-.009827	.0057842	.0022178	-.000143	.1322938	.1103851
#2	-.005709	-.010854	.0052887	.0044446	.000377	.1273291	.1107020
#3	-.005512	-.009633	.0061382	.0064440	.000718	.1300223	.1093610

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005336	.0002423	6.054103	.0108740	.0197687	.0083688	.9251509
Stddev	.0000370	.0000341	.040467	.0002469	.0000442	.0002211	.0073578
%RSD	6.943061	14.08032	.6684219	2.270948	.2233802	2.641515	.7953070
#1	.0005338	.0002293	6.007383	.0106038	.0197470	.0085444	.9179452
#2	.0004965	.0002810	6.076710	.0110879	.0197396	.0081206	.9326519
#3	.0005706	.0002166	6.078214	.0109303	.0198195	.0084416	.9248557

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.593359	.4783057	.0114598	.0005932	345.4545	.0000698	.0713474
Stddev	.010667	.0044260	.0001857	.0002600	1.6898	.0010444	.0002408
%RSD	.6694857	.9253491	1.620648	43.83695	.4891645	1496.984	.3375355
#1	1.585028	.4731967	.0116200	.0008632	344.0309	.0007298	.0715368
#2	1.605382	.4807452	.0112562	.0003444	345.0108	-.001134	.0714290
#3	1.589667	.4809751	.0115033	.0005719	347.3220	.000614	.0710764

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9141684	.0012272	.0003922	-.001020	.0022241	.5284046	-.000532
Stddev	.0116785	.0003203	.0001124	.000296	.0005843	.0084417	.001188
%RSD	1.277498	26.09785	28.66941	29.04335	26.27071	1.597591	223.3492
#1	.9006855	.0011947	.0003073	-.000751	.0016971	.5187004	.000676
#2	.9211221	.0009244	.0003496	-.001338	.0021228	.5324601	-.000574
#3	.9206976	.0015625	.0005197	-.000972	.0028525	.5340532	-.001699

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-12 Acquired: 10/28/2024 17:58:43 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.1774611	-.000354	.0497213
Stddev	.0012094	.000714	.0001817
%RSD	.6815090	201.6916	.3653589
#1	.1772450	.000354	.0496826
#2	.1763744	-.000343	.0499192
#3	.1787640	-.001073	.0495621

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2604.804	55890.35	13905.41	1791.943	4088.818
Stddev	5.342	106.92	55.76	2.217	5.518
%RSD	.2050852	.1913084	.4010304	.1236989	.1349649
#1	2606.355	55996.29	13913.78	1791.353	4089.941
#2	2609.198	55782.47	13845.94	1794.395	4093.689
#3	2598.858	55892.31	13956.53	1790.081	4082.824

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-03 Acquired: 10/28/2024 18:03:11 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.009969	-.010216	-.000615	.0036078	.0006898	.3044889	.0537283
Stddev	.001327	.000555	.000993	.0015522	.0014773	.0021966	.0004294
%RSD	13.31383	5.431023	161.3962	43.02380	214.1591	.7214125	.7991300
#1	-.010456	-.009771	-.001630	.0052366	.0011017	.3045270	.0535346
#2	-.010984	-.010837	-.000572	.0021455	.0019175	.3022734	.0534299
#3	-.008467	-.010039	.000355	.0034415	-.000950	.3066662	.0542204

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000124	-.000089	3.069794	.0035084	-.000034	.0056901	.3719103
Stddev	.000011	.000047	.011929	.0002569	.000139	.0001343	.0044633
%RSD	9.092720	52.62732	.3885961	7.322621	405.0351	2.359591	1.200109
#1	-.000114	-.000137	3.061252	.0033298	.000105	.0058431	.3674213
#2	-.000122	-.000088	3.064706	.0033926	-.000173	.0055921	.3763475
#3	-.000136	-.000043	3.083423	.0038028	-.000035	.0056349	.3719620

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0272554	.1338775	.0018774	.0003209	419.7932	.0007472	.0567120
Stddev	.0000750	.0071051	.0002107	.0002752	.5568	.0006626	.0002655
%RSD	.2752074	5.307139	11.22027	85.75412	.1326468	88.68205	.4681027
#1	.0271757	.1371709	.0019056	.0005761	420.4360	.0010961	.0564636
#2	.0272661	.1257233	.0020725	.0000294	419.4600	.0011625	.0566805
#3	.0273246	.1387382	.0016540	.0003571	419.4835	-.000017	.0569918

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.097068	-.000091	.0004834	-.000380	.0029905	.7807070	.0861764
Stddev	.011763	.000441	.0001627	.001008	.0000274	.0043668	.0005392
%RSD	1.072217	484.0506	33.65068	265.5564	.9153731	.5593397	.6257400
#1	1.101093	-.000327	.0004756	-.000895	.0029790	.7857419	.0858239
#2	1.106290	-.000363	.0006499	.000782	.0030218	.7784261	.0859082
#3	1.083821	.000417	.0003248	-.001026	.0029708	.7779529	.0867972

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-03 Acquired: 10/28/2024 18:03:11 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.1805331	-.001011	.0061637
Stddev	.0019931	.000954	.0000285
%RSD	1.104000	94.35874	.4623963
#1	.1825072	-.001654	.0061309
#2	.1785215	-.001465	.0061823
#3	.1805705	.000085	.0061779

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2626.058	55493.75	13755.06	1806.472	4083.269
Stddev	11.527	45.52	44.21	3.290	11.124
%RSD	.4389324	.0820248	.3214044	.1821153	.2724302
#1	2617.073	55490.13	13767.48	1802.673	4073.237
#2	2622.048	55450.15	13791.72	1808.373	4081.338
#3	2639.055	55540.98	13705.96	1808.370	4095.232

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-06 Acquired: 10/28/2024 18:07:39 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.010227	-.011703	.0071020	.0048862	.0002926	.2535200	.0626508
Stddev	.001052	.000576	.0005048	.0009461	.0008968	.0051737	.0000857
%RSD	10.28740	4.919989	7.108380	19.36249	306.4661	2.040752	.1367549
#1	-.009940	-.012170	.0065942	.0047619	.0013116	.2481637	.0626685
#2	-.011394	-.011060	.0071081	.0040084	-.000057	.2584894	.0625576
#3	-.009349	-.011878	.0076038	.0058883	-.000376	.2539069	.0627261

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000095	.0000325	4.862165	.0018424	.0005953	.0638485	.5038700
Stddev	.000008	.0001019	.010899	.0003418	.0001264	.0001854	.0032803
%RSD	8.931931	313.8990	.2241606	18.55011	21.23487	.2904189	.6510176
#1	-.000089	.0001461	4.850269	.0021796	.0005622	.0640515	.5004346
#2	-.000104	.0000020	4.864554	.0014962	.0007350	.0636879	.5069694
#3	-.000090	-.000051	4.871671	.0018515	.0004888	.0638062	.5042059

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0409046	.3786112	.0040891	.0003267	418.9276	-.000367	.1597949
Stddev	.0001032	.0080751	.0000581	.0000129	3.6531	.001568	.0009453
%RSD	.2522424	2.132816	1.420402	3.945149	.8720014	426.9085	.5915529
#1	.0410228	.3748448	.0041363	.0003316	414.7441	-.002131	.1587803
#2	.0408325	.3731075	.0041068	.0003364	420.5519	.000869	.1606508
#3	.0408585	.3878814	.0040242	.0003121	421.4868	.000160	.1599536

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.269658	-.000274	.0002773	-.001188	.0032074	.6475083	.0104116
Stddev	.033411	.000509	.0001525	.000190	.0002269	.0051197	.0013790
%RSD	2.631457	185.4403	54.99388	15.99446	7.072794	.7906754	13.24535
#1	1.258771	-.000693	.0004203	-.001032	.0034316	.6422296	.0113745
#2	1.307154	-.000422	.0002949	-.001131	.0029780	.6524526	.0110285
#3	1.243048	.000292	.0001168	-.001399	.0032127	.6478426	.0088318

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-06 Acquired: 10/28/2024 18:07:39 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.1879022	.0013328	.0098353
Stddev	.0035608	.0016450	.0000193
%RSD	1.895000	123.4278	.1963930
#1	.1907397	-.000487	.0098575
#2	.1890604	.001770	.0098223
#3	.1839066	.002715	.0098262

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2630.955	57279.09	13626.68	1863.094	4078.603
Stddev	3.889	210.55	28.37	9.097	8.519
%RSD	.1478244	.3675940	.2081805	.4882516	.2088656
#1	2626.930	57446.51	13598.81	1863.147	4068.772
#2	2634.693	57042.70	13625.72	1853.971	4083.233
#3	2631.241	57348.06	13655.52	1872.163	4083.805

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-08 Acquired: 10/28/2024 18:12:06 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.011404	-.011865	-.000783	.0032999	.0007704	.2777401	.1369112
Stddev	.002183	.001009	.001061	.0009161	.0004557	.0012797	.0008467
%RSD	19.13851	8.500921	135.5451	27.76101	59.15455	.4607685	.6184225
#1	-.012924	-.010737	.000271	.0029007	.0012634	.2789501	.1377850
#2	-.008903	-.012682	-.000769	.0043479	.0003645	.2778695	.1368541
#3	-.012385	-.012175	-.001850	.0026512	.0006834	.2764005	.1360946

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000153	-.000185	145.8838	.0218028	-.000474	.0009628	.0615092
Stddev	.000033	.000074	.0817	.0004459	.000141	.0003741	.0000822
%RSD	21.25548	40.10745	.0560051	2.045182	29.86383	38.85590	.1337030
#1	-.000184	-.000260	145.9291	.0213469	-.000470	.0005749	.0615441
#2	-.000119	-.000111	145.7894	.0218237	-.000334	.0013213	.0615682
#3	-.000155	-.000185	145.9328	.0222380	-.000617	.0009922	.0614152

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015329	.0316442	.0043757	.0004387	412.5973	.0003415	.0154449
Stddev	.0001186	.0030949	.0000911	.0002994	1.8145	.0025086	.0002427
%RSD	7.735255	9.780423	2.081385	68.24772	.4397688	734.6654	1.571635
#1	.0016534	.0294386	.0044762	.0002306	414.5887	.0027410	.0151870
#2	.0014164	.0303119	.0042987	.0003036	411.0377	.0005471	.0154786
#3	.0015288	.0351822	.0043521	.0007818	412.1653	-.002264	.0156690

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.825788	.0147727	.0026661	-.003977	-.002803	1.116450	-.001500
Stddev	.033751	.0003025	.0001786	.000995	.000504	.003497	.002217
%RSD	.5793357	2.047407	6.699884	25.01925	17.97980	.3132621	147.7553
#1	5.786850	.0151167	.0028500	-.004020	-.003382	1.112412	-.001909
#2	5.843856	.0145485	.0026551	-.004951	-.002562	1.118516	.000892
#3	5.846659	.0146530	.0024932	-.002962	-.002464	1.118423	-.003485

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-08 Acquired: 10/28/2024 18:12:06 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.125352	.0353819	1.515066
Stddev	.009254	.0017655	.006745
%RSD	.2243206	4.989832	.4451774
#1	4.135791	.0334200	1.521752
#2	4.118156	.0358831	1.508264
#3	4.122109	.0368427	1.515181

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2506.523	55911.13	13490.16	1776.098	3867.616
Stddev	.821	40.92	35.16	5.373	2.653
%RSD	.0327662	.0731839	.2606116	.3024899	.0685939
#1	2505.931	55957.60	13449.63	1778.803	3864.562
#2	2506.176	55895.28	13508.50	1779.580	3868.936
#3	2507.461	55880.51	13512.37	1769.910	3869.350

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-10 Acquired: 10/28/2024 18:16:40 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.008067	-.011110	-.000533	.0041286	.0005153	.2380120	.2161761
Stddev	.002276	.001377	.001126	.0021539	.0016062	.0003123	.0008214
%RSD	28.21135	12.39779	211.3777	52.17123	311.6982	.1312180	.3799477
#1	-.007802	-.012359	.000747	.0056007	-.000488	.2377316	.2153591
#2	-.010464	-.009633	-.001371	.0051285	-.000334	.2383486	.2161675
#3	-.005935	-.011338	-.000974	.0016564	.002368	.2379557	.2170017

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000190	-.000157	176.4753	.2421210	-.000675	.0011583	.0395638
Stddev	.000047	.000058	.4051	.0012382	.000061	.0001877	.0016224
%RSD	24.56779	37.27897	.2295468	.5114072	9.085568	16.20203	4.100765
#1	-.000158	-.000177	176.0577	.2419453	-.000746	.0011438	.0377340
#2	-.000243	-.000091	176.5015	.2409800	-.000648	.0013529	.0401305
#3	-.000168	-.000202	176.8666	.2434377	-.000633	.0009784	.0408268

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014289	.0143490	.0028015	.0001886	438.6709	.0000667	.0208183
Stddev	.0000617	.0069302	.0001477	.0001147	6.1387	.0007734	.0002472
%RSD	4.319199	48.29792	5.272662	60.79843	1.399380	1160.327	1.187346
#1	.0014135	.0092468	.0029164	.0003147	436.7330	-.000792	.0209284
#2	.0013764	.0115611	.0028531	.0000905	433.7351	.000282	.0205352
#3	.0014969	.0222390	.0026349	.0001607	445.5447	.000710	.0209914

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.071847	.0013067	.0452494	-.004589	-.003728	.4422206	.0049666
Stddev	.034720	.0001991	.0003163	.000587	.000178	.0027831	.0017415
%RSD	.6845586	15.23311	.6989806	12.79589	4.776260	.6293586	35.06514
#1	5.057328	.0011268	.0456116	-.004718	-.003647	.4435456	.0068228
#2	5.046743	.0015206	.0451094	-.005102	-.003604	.4440938	.0047084
#3	5.111469	.0012728	.0450274	-.003948	-.003932	.4390226	.0033686

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-10 Acquired: 10/28/2024 18:16:40 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	2.043619	.0466527	.2734655
Stddev	.002578	.0012511	.0009346
%RSD	.1261286	2.681676	.3417539
#1	2.045808	.0468744	.2725295
#2	2.040778	.0477781	.2734681
#3	2.044271	.0453056	.2743987

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2456.606	54443.58	13502.59	1713.350	3810.288
Stddev	.769	238.86	19.21	10.623	4.020
%RSD	.0312957	.4387372	.1422703	.6199864	.1055112
#1	2457.347	54535.35	13524.15	1720.260	3809.995
#2	2455.812	54622.95	13496.35	1718.673	3806.422
#3	2456.658	54172.44	13487.28	1701.119	3814.446

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-12 Acquired: 10/28/2024 18:21:07 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.008539	-.012818	-.000486	.0035151	.0003051	.2505544	.1541632
Stddev	.001149	.000815	.000927	.0004629	.0007423	.0035605	.0000378
%RSD	13.45912	6.361911	190.5084	13.16940	243.3445	1.421029	.0245041
#1	-.008114	-.012015	-.001556	.0030184	-.000142	.2465733	.1542066
#2	-.009840	-.013645	.000086	.0035923	.001162	.2516563	.1541384
#3	-.007663	-.012795	.000010	.0039345	-.000105	.2534337	.1541445

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000131	-.000128	167.0361	.2285686	-.000468	.0011730	.0185232
Stddev	.000026	.000066	.5225	.0016600	.000083	.0003311	.0026183
%RSD	20.11365	51.94319	.3127773	.7262582	17.63241	28.22487	14.13540
#1	-.000116	-.000114	166.7598	.2266529	-.000507	.0014725	.0180332
#2	-.000116	-.000069	167.6387	.2295845	-.000525	.0008175	.0213519
#3	-.000162	-.000200	166.7098	.2294683	-.000374	.0012289	.0161845

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016476	.0129237	.0027025	.0002464	435.9321	-.000008	.0145096
Stddev	.0001691	.0059987	.0001864	.0001416	7.3205	.000068	.0004365
%RSD	10.26662	46.41598	6.897586	57.45957	1.679275	837.3415	3.008643
#1	.0018155	.0081792	.0027972	.0002385	431.3832	-.000069	.0142786
#2	.0014772	.0196664	.0028224	.0003917	444.3766	-.000021	.0150131
#3	.0016501	.0109255	.0024877	.0001089	432.0364	.000066	.0142371

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.512313	.0014158	.0279713	-.003891	-.003389	.6339292	-.001076
Stddev	.018246	.0005058	.0003003	.000881	.000184	.0083985	.000404
%RSD	.3310094	35.72514	1.073519	22.63677	5.429568	1.324838	37.58550
#1	5.495151	.0015862	.0277852	-.003320	-.003216	.6270535	-.001284
#2	5.531478	.0018144	.0278111	-.004906	-.003369	.6432898	-.000610
#3	5.510310	.0008468	.0283177	-.003449	-.003582	.6314443	-.001333

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-12 Acquired: 10/28/2024 18:21:07 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	3.166576	.0433309	.2445421
Stddev	.008071	.0008735	.0007195
%RSD	.2548957	2.016007	.2942417
#1	3.157859	.0429542	.2453178
#2	3.168076	.0427089	.2444119
#3	3.173792	.0443296	.2438965

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2479.672	55204.91	13448.37	1738.646	3820.266
Stddev	1.365	360.89	46.61	18.400	7.885
%RSD	.0550298	.6537226	.3465984	1.058322	.2063879
#1	2478.102	55591.44	13416.73	1757.385	3812.667
#2	2480.340	54876.79	13426.47	1720.604	3819.722
#3	2480.574	55146.50	13501.89	1737.949	3828.408

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-06 Acquired: 10/28/2024 18:25:33 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.006680	-.011514	.0015272	.0020295	.0005479	.1490639	.1115036
Stddev	.001474	.001158	.0010910	.0010359	.0005710	.0025978	.0003633
%RSD	22.05972	10.05526	71.43765	51.04230	104.2168	1.742752	.3258444
#1	-.005118	-.010755	.0020092	.0008334	.0009028	.1461632	.1118252
#2	-.006878	-.010940	.0002782	.0026245	-.000111	.1498522	.1115761
#3	-.008045	-.012847	.0022941	.0026308	.000852	.1511762	.1111095

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001497	.0003350	23.07128	.0034397	.0029356	.0002508	11.21434
Stddev	.0000228	.0000142	.07909	.0003996	.0000679	.0002960	.02660
%RSD	15.25791	4.237090	.3428230	11.61772	2.314501	118.0472	.2372167
#1	.0001344	.0003344	22.97996	.0037357	.0029195	-.000087	11.22867
#2	.0001760	.0003211	23.11587	.0035982	.0030101	.000372	11.23070
#3	.0001388	.0003495	23.11801	.0029851	.0028771	.000467	11.18364

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5338473	6.437029	.0075513	.0009955	348.3102	.0012115	.0414491
Stddev	.0003956	.020038	.0002064	.0001166	1.4653	.0005214	.0004600
%RSD	.0740952	.3112932	2.733427	11.70954	.4206996	43.03567	1.109759
#1	.5334207	6.415511	.0077893	.0008956	349.2852	.0006361	.0418986
#2	.5339194	6.440422	.0074437	.0011236	349.0204	.0016526	.0409793
#3	.5342019	6.455153	.0074209	.0009675	346.6251	.0013459	.0414695

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.942451	.0204912	.0002592	-.002206	.0057539	.6756077	.0774126
Stddev	.034734	.0008129	.0005103	.000856	.0000236	.0068350	.0024926
%RSD	1.180436	3.966822	196.8449	38.78449	.4109118	1.011683	3.219942
#1	2.981840	.0209180	-.000243	-.003166	.0057344	.6757920	.0763825
#2	2.929304	.0195538	.000244	-.001926	.0057471	.6823487	.0802551
#3	2.916211	.0210017	.000777	-.001525	.0057802	.6686824	.0756001

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-06 Acquired: 10/28/2024 18:25:33 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.4550221	.0052303	.0635105
Stddev	.0042350	.0003169	.0002239
%RSD	.9307262	6.059273	.3525970
#1	.4502137	.0049274	.0637690
#2	.4566551	.0052040	.0633814
#3	.4581975	.0055595	.0633810

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2643.816	58184.51	13750.43	1858.802	4090.787
Stddev	13.335	111.88	27.45	11.237	17.007
%RSD	.5043988	.1922790	.1996007	.6045276	.4157455
#1	2633.897	58069.32	13780.40	1846.210	4076.830
#2	2638.576	58191.45	13744.39	1867.809	4085.802
#3	2658.976	58292.75	13726.51	1862.388	4109.730

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08 Acquired: 10/28/2024 18:29:59 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.007133	-.008906	.0007122	.0031834	.0006208	.1022364	.0983674
Stddev	.001515	.001675	.0008389	.0023077	.0002282	.0021387	.0010526
%RSD	21.23697	18.80220	117.8031	72.49082	36.75548	2.091958	1.070045
#1	-.005844	-.010013	.0014072	.0018075	.0004452	.1043736	.0978001
#2	-.008802	-.009726	-.000220	.0018952	.0008788	.1000961	.0977201
#3	-.006754	-.006980	.000949	.0058476	.0005385	.1022393	.0995819

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000287	.0002166	40.68292	.0084790	.0031134	-.000111	7.747165
Stddev	.0000324	.0000485	.12660	.0006227	.0002017	.000183	.021531
%RSD	113.0446	22.41173	.3111971	7.344564	6.478898	164.7985	.2779233
#1	.0000576	.0002702	40.54896	.0080619	.0029082	-.000158	7.734532
#2	-.000006	.0002037	40.69918	.0081802	.0031204	.000091	7.772026
#3	.000035	.0001758	40.80060	.0091948	.0033115	-.000266	7.734936

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.084863	8.666474	.0151629	.0006117	401.3158	.0014888	.0309270
Stddev	.005550	.025768	.0001350	.0001460	4.1074	.0010362	.0004170
%RSD	.5115911	.2973307	.8906099	23.86680	1.023490	69.59927	1.348375
#1	1.079571	8.639090	.0153142	.0006407	404.0589	.0003612	.0304544
#2	1.084379	8.670085	.0151196	.0007409	403.2950	.0017060	.0312431
#3	1.090640	8.690246	.0150548	.0004533	396.5935	.0023992	.0310835

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.511403	.0176477	.0008094	-.002971	.0038142	.4802282	.0065496
Stddev	.021688	.0002730	.0001479	.000518	.0000624	.0036620	.0013144
%RSD	.8635923	1.547150	18.27932	17.43941	1.636407	.7625516	20.06842
#1	2.536254	.0173411	.0009066	-.002781	.0037423	.4843697	.0075410
#2	2.496295	.0178645	.0006391	-.002575	.0038456	.4774183	.0050587
#3	2.501660	.0177376	.0008825	-.003557	.0038548	.4788968	.0070492

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08 Acquired: 10/28/2024 18:29:59 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6856837	.0087720	.0633031
Stddev	.0023894	.0012541	.0006326
%RSD	.3484737	14.29639	.9993038
#1	.6831672	.0084087	.0633001
#2	.6879216	.0077396	.0626721
#3	.6859624	.0101676	.0639373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2630.603	56822.79	13653.40	1844.466	4029.644
Stddev	2.489	246.45	10.39	10.391	5.148
%RSD	.0946336	.4337111	.0760617	.5633658	.1277427
#1	2633.477	56711.30	13664.23	1849.885	4023.797
#2	2629.124	56651.78	13652.45	1832.486	4031.646
#3	2629.207	57105.28	13643.53	1851.027	4033.490

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08DUP Acquired: 10/28/2024 18:34:26 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.009225	-.009612	-.000090	.0039667	.0020093	.1017606	.0944435
Stddev	.000213	.000731	.001066	.0025414	.0005609	.0017294	.0020801
%RSD	2.313343	7.609332	1178.459	64.06843	27.91460	1.699495	2.202513
#1	-.009427	-.008770	.000746	.0062572	.0015361	.1026030	.0953152
#2	-.009245	-.010092	-.001291	.0012327	.0026288	.1029075	.0959460
#3	-.009002	-.009974	.000273	.0044102	.0018628	.0997714	.0920694

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000797	.0002782	39.07440	.0083465	.0031680	.0002526	7.522789
Stddev	.0000452	.0000348	.72761	.0007750	.0002263	.0000802	.017892
%RSD	56.68503	12.51519	1.862108	9.284980	7.142118	31.72963	.2378438
#1	.0001043	.0002457	39.31190	.0088675	.0033324	.0001798	7.514232
#2	.0001072	.0002738	39.65357	.0074560	.0029100	.0003385	7.510782
#3	.0000275	.0003149	38.25771	.0087162	.0032617	.0002396	7.543353

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.039601	8.335222	.0152907	.0009545	392.2814	-.000121	.0305935
Stddev	.021772	.143184	.0004306	.0000764	3.3704	.000611	.0006695
%RSD	2.094291	1.717818	2.816035	8.007608	.8591875	503.6059	2.188356
#1	1.051143	8.371238	.0151795	.0009435	388.7111	-.000703	.0298448
#2	1.053172	8.456959	.0149266	.0010358	392.7249	-.000175	.0308012
#3	1.014488	8.177468	.0157660	.0008841	395.4081	.000515	.0311346

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.486012	.0160975	.0006503	-.002568	.0037180	.4671820	.0092389
Stddev	.022489	.0001738	.0002537	.000693	.0000203	.0052989	.0022537
%RSD	.9046268	1.079939	39.01888	26.99826	.5456968	1.134230	24.39405
#1	2.480485	.0162178	.0007518	-.003195	.0037015	.4654990	.0069726
#2	2.466802	.0161765	.0003615	-.001824	.0037120	.4731180	.0114798
#3	2.510749	.0158981	.0008375	-.002686	.0037407	.4629289	.0092643

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08DUP Acquired: 10/28/2024 18:34:26 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6900226	.0080483	.0614610
Stddev	.0148509	.0015848	.0014095
%RSD	2.152239	19.69170	2.293276
#1	.6792040	.0086873	.0624434
#2	.6839095	.0062437	.0620935
#3	.7069544	.0092138	.0598461

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2587.599	57913.60	14137.01	1836.941	3978.351
Stddev	36.544	397.65	227.09	19.083	61.968
%RSD	1.412271	.6866334	1.606374	1.038824	1.557636
#1	2603.936	58097.80	14010.64	1835.503	4011.366
#2	2613.125	58185.77	14001.22	1856.703	4016.821
#3	2545.737	57457.25	14399.18	1818.619	3906.865

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08LX5 Acquired: 10/28/2024 18:38:51 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.002241	-.004266	-.000274	-.000980	.0003225	.0242422	.0167211
Stddev	.002032	.000119	.000831	.000507	.0001137	.0031347	.0000732
%RSD	90.65610	2.780022	303.4719	51.70653	35.24729	12.93088	.4378976
#1	-.002175	-.004393	.000330	-.001184	.0001945	.0238058	.0166700
#2	-.004306	-.004158	.000071	-.001352	.0003612	.0275723	.0168050
#3	-.000243	-.004248	-.001222	-.000403	.0004118	.0213486	.0166884

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000557	-.000013	8.659594	.0009928	.0007632	-.001142	1.605255
Stddev	.0000378	.000066	.038297	.0003300	.0000758	.000200	.006027
%RSD	67.95630	511.8144	.4422465	33.24276	9.927037	17.51142	.3754511
#1	.0000196	.000031	8.631026	.0006137	.0006757	-.001311	1.598324
#2	.0000523	-.000089	8.703110	.0011486	.0008057	-.000921	1.608183
#3	.0000951	.000020	8.644645	.0012161	.0008081	-.001193	1.609259

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2291028	1.848556	.0033522	.0005256	81.89952	-.000366	.0030085
Stddev	.0006128	.006058	.0001968	.0001616	.64784	.000336	.0001057
%RSD	.2674829	.3276920	5.869590	30.74603	.7910162	91.70182	3.514191
#1	.2284702	1.845337	.0032698	.0007086	82.62840	.000012	.0030345
#2	.2291446	1.844788	.0032100	.0004654	81.68086	-.000480	.0028922
#3	.2296937	1.855544	.0035768	.0004027	81.38931	-.000631	.0030988

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6207373	-.001634	-.000052	.0001931	.0013140	.0884641	.0005519
Stddev	.0122193	.000075	.000151	.0002693	.0004640	.0045772	.0016132
%RSD	1.968519	4.616828	290.3455	139.4827	35.30895	5.174135	292.3159
#1	.6307585	-.001640	-.000202	.0004521	.0013448	.0831833	.0016213
#2	.6243287	-.001706	-.000055	-.000086	.0017618	.0912943	.0013380
#3	.6071248	-.001555	.000101	.000213	.0008354	.0909148	-.001304

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08LX5 Acquired: 10/28/2024 18:38:51 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.1455004	.0025076	.0134935
Stddev	.0016226	.0013503	.0000711
%RSD	1.115166	53.84729	.5267364
#1	.1471948	.0018819	.0135516
#2	.1439608	.0015837	.0135145
#3	.1453455	.0040573	.0134143

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2734.169	57836.04	13769.79	1864.415	4347.783
Stddev	8.190	55.42	17.19	6.236	8.047
%RSD	.2995504	.0958273	.1248424	.3344897	.1850793
#1	2728.851	57793.30	13765.72	1862.218	4344.740
#2	2730.056	57898.66	13755.00	1871.452	4341.701
#3	2743.601	57816.16	13788.65	1859.574	4356.907

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV07 Acquired: 10/28/2024 18:43:11 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	5.110048	5.498158	4.967732	5.272882	5.207106	9.962837	9.750608
Stddev	.012484	.130206	.002439	.024180	.007071	.019881	.066580
%RSD	.2442931	2.368182	.0490904	.4585806	.1357878	.1995517	.6828287
#1	5.104728	5.348170	4.970274	5.248266	5.204469	9.985730	9.793203
#2	5.101106	5.564121	4.967512	5.273779	5.201732	9.949906	9.673884
#3	5.124311	5.582181	4.965411	5.296601	5.215116	9.952875	9.784738

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2428394	2.484778	23.99946	.9655129	2.487946	1.290863	4.816129
Stddev	.0005681	.002906	.01454	.0022700	.001882	.000524	.005933
%RSD	.2339280	.1169700	.0605726	.2351044	.0756639	.0405558	.1231957
#1	.2434237	2.485398	24.01621	.9652112	2.487632	1.290468	4.822831
#2	.2428056	2.487324	23.99023	.9634089	2.489966	1.290663	4.811545
#3	.2422891	2.481611	23.99192	.9679186	2.486240	1.291457	4.814012

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.320652	23.81763	2.490337	1.263754	24.19746	2.422666	2.573593
Stddev	.006818	.05111	.001094	.001202	.10883	.001776	.012255
%RSD	.2937768	.2145718	.0439191	.0951224	.4497466	.0733094	.4761744
#1	2.328451	23.77173	2.490453	1.263062	24.32237	2.424666	2.559466
#2	2.315825	23.80846	2.491368	1.265142	24.14697	2.422056	2.579951
#3	2.317680	23.87270	2.489190	1.263057	24.12306	2.421275	2.581362

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.56394	4.831421	5.311723	4.984293	4.779163	5.095038	5.256582
Stddev	.05387	.013298	.015675	.007683	.008152	.038117	.030741
%RSD	.2107368	.2752315	.2951038	.1541539	.1705780	.7481174	.5848185
#1	25.62453	4.842182	5.296526	4.976623	4.788577	5.059976	5.226650
#2	25.52143	4.835525	5.310805	4.991990	4.774454	5.089528	5.255022
#3	25.54587	4.816554	5.327836	4.984266	4.774459	5.135610	5.288073

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV07 Acquired: 10/28/2024 18:43:11 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.906313	4.755987	4.940873
Stddev	.027241	.038058	.021879
%RSD	.5552213	.8002085	.4428076
#1	4.874989	4.799500	4.941209
#2	4.924453	4.739555	4.962582
#3	4.919498	4.728905	4.918829

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2777.825	61780.39	13068.31	1965.503	4303.147
Stddev	5.530	93.96	30.50	8.201	9.938
%RSD	.1990614	.1520828	.2333622	.4172700	.2309398
#1	2783.706	61700.66	13033.32	1974.756	4314.066
#2	2777.038	61883.97	13082.38	1959.130	4294.633
#3	2772.731	61756.54	13089.23	1962.622	4300.742

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB07 Acquired: 10/28/2024 18:47:22 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.001443	-.002000	-.000391	-.000415	.0003517	.0067968	-.002876
Stddev	.001960	.000919	.001203	.002330	.0004356	.0026913	.000449
%RSD	135.7717	45.94767	307.9870	562.0180	123.8847	39.59659	15.60458
#1	-.001437	-.001791	-.001582	-.002657	.0005836	.0052160	-.002903
#2	.000513	-.001204	.000824	-.000582	.0006222	.0052701	-.003310
#3	-.003406	-.003006	-.000414	.001995	-.000151	.0099043	-.002414

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000514	.0000689	.0015805	-.000164	.0000840	-.000961	-.014468
Stddev	.0000613	.0000660	.0050222	.000536	.0000882	.000131	.001896
%RSD	119.2963	95.73204	317.7693	327.1709	104.9627	13.65239	13.10779
#1	.0001222	-.000006	.0039544	-.000776	.0000828	-.001028	-.015244
#2	.0000136	.000097	.0049756	.000058	.0001729	-.000810	-.015853
#3	.0000184	.000116	-.004189	.000226	-.000004	-.001046	-.012306

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000308	.0006493	.0000736	.0005115	.1392138	-.000275	-.004671
Stddev	.000120	.0108535	.0001660	.0001995	.0079537	.000212	.000211
%RSD	39.06966	1671.624	225.5236	38.99842	5.713316	77.22158	4.511112
#1	-.000327	.0127105	-.000108	.0006512	.1300454	-.000066	-.004857
#2	-.000419	-.008330	.000218	.0002831	.1442644	-.000490	-.004715
#3	-.000180	-.002433	.000111	.0006002	.1433315	-.000268	-.004442

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0284926	-.003408	.0001223	.0023761	.0004177	-.009793	-.002032
Stddev	.0121468	.000190	.0001224	.0004748	.0001873	.000904	.003185
%RSD	42.63158	5.563083	100.0661	19.98310	44.83077	9.233540	156.7075
#1	.0383169	-.003226	.0001633	.0027177	.0005366	-.009165	-.005596
#2	.0322499	-.003393	-.000015	.0025768	.0005147	-.009386	.000535
#3	.0149111	-.003605	.000219	.0018339	.0002019	-.010830	-.001036

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB07 Acquired: 10/28/2024 18:47:22 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0001869	.0001487	.0000222
Stddev	.0015360	.0015558	.0000240
%RSD	821.8669	1046.112	108.1309
#1	-.001018	.0018463	.0000105
#2	.001917	-.001209	.0000498
#3	-.000338	-.000191	.0000063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2925.893	63685.96	13852.69	2073.188	4869.231
Stddev	6.864	64.81	15.84	5.576	12.448
%RSD	.2345860	.1017697	.1143557	.2689434	.2556477
#1	2918.171	63680.00	13834.76	2076.554	4855.765
#2	2931.300	63624.33	13858.48	2066.752	4871.610
#3	2928.206	63753.54	13864.81	2076.257	4880.317

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08MS Acquired: 10/28/2024 18:51:43 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7343739	1.706882	.8287305	1.875261	.7893795	1.901645	.2660118
Stddev	.0045199	.041645	.0009772	.003045	.0019698	.008381	.0014350
%RSD	.6154786	2.439811	.1179142	.1623654	.2495394	.4407373	.5394420
#1	.7361013	1.754686	.8296098	1.871785	.7896882	1.894505	.2643562
#2	.7292450	1.687486	.8289030	1.876538	.7872736	1.899558	.2667811
#3	.7377754	1.678472	.8276785	1.877458	.7911767	1.910873	.2668981

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1684493	.1748036	39.86906	.3828081	.1894809	.2786932	10.27771
Stddev	.0010514	.0002083	.23234	.0026210	.0003085	.0003365	.13478
%RSD	.6241655	.1191518	.5827682	.6846679	.1628188	.1207361	1.311376
#1	.1674019	.1749447	39.60286	.3841819	.1893947	.2784378	10.33175
#2	.1684413	.1745644	39.97327	.3844567	.1892246	.2785672	10.37708
#3	.1695047	.1749018	40.03106	.3797859	.1898233	.2790745	10.12430

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.204984	9.961787	.4765742	.0745060	382.3740	.2645455	.2341540
Stddev	.006579	.063333	.0009942	.0009172	5.5094	.0011517	.0022966
%RSD	.5460140	.6357622	.2086080	1.231110	1.440838	.4353521	.9807935
#1	1.197451	9.890759	.4762193	.0745362	388.4048	.2634236	.2346611
#2	1.209607	9.982223	.4758061	.0754078	381.1123	.2657248	.2361546
#3	1.207894	10.01238	.4776971	.0735741	377.6049	.2644880	.2316462

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.71226	.2415627	.4258138	.6420153	.1786315	1.207657	6.045888
Stddev	.14248	.0014859	.0006619	.0013439	.0014479	.017742	.027152
%RSD	1.120783	.6151325	.1554429	.2093258	.8105599	1.469158	.4490986
#1	12.73758	.2399187	.4257401	.6404635	.1770662	1.197257	6.072244
#2	12.84038	.2419593	.4251919	.6427873	.1789053	1.228143	6.047416
#3	12.55882	.2428101	.4265095	.6427951	.1799229	1.197570	6.018005

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08MS Acquired: 10/28/2024 18:51:43 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6508739	.1692791	.2374341
Stddev	.0043645	.0009918	.0014406
%RSD	.6705557	.5858967	.6067166
#1	.6537726	.1681883	.2357769
#2	.6529947	.1701267	.2381385
#3	.6458543	.1695221	.2383868

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2575.672	57178.03	13554.09	1811.330	3955.371
Stddev	4.763	536.66	76.33	13.967	6.646
%RSD	.1849106	.9385782	.5631415	.7711031	.1680255
#1	2576.569	56986.87	13639.67	1810.031	3958.023
#2	2579.922	56763.13	13529.53	1798.058	3960.281
#3	2570.524	57784.10	13493.06	1825.902	3947.808

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08MSD Acquired: 10/28/2024 18:55:51 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7427332	1.731736	.8277816	1.901488	.7999420	1.911994	.2656915
Stddev	.0115008	.043703	.0116508	.028174	.0125236	.034927	.0041681
%RSD	1.548437	2.523649	1.407477	1.481678	1.565563	1.826720	1.568778
#1	.7301727	1.700269	.8162600	1.869783	.7871235	1.929429	.2680449
#2	.7527473	1.781635	.8395575	1.923655	.8121483	1.934770	.2681506
#3	.7452797	1.713303	.8275271	1.911025	.8005541	1.871782	.2608790

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1680241	.1748321	39.71791	.3846405	.1896113	.2799318	10.60679
Stddev	.0015659	.0022903	.51608	.0007344	.0026695	.0042445	.05743
%RSD	.9319380	1.309991	1.299376	.1909402	1.407888	1.516269	.5414279
#1	.1689831	.1723659	39.90691	.3838279	.1866638	.2756887	10.54119
#2	.1688722	.1768920	40.11284	.3848368	.1918663	.2841777	10.64794
#3	.1662172	.1752385	39.13396	.3852569	.1903039	.2799290	10.63126

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.197650	9.895943	.4767459	.0762809	397.9367	.2649706	.2398856
Stddev	.012844	.123956	.0059910	.0007325	2.6468	.0038104	.0015123
%RSD	1.072456	1.252592	1.256639	.9602696	.6651364	1.438042	.6304392
#1	1.205843	9.984556	.4702226	.0754516	395.0031	.2672897	.2382513
#2	1.204260	9.948981	.4820018	.0765516	398.6611	.2670492	.2401699
#3	1.182847	9.754293	.4780132	.0768396	400.1459	.2605730	.2412357

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.31710	.2410659	.4296731	.6428930	.1782044	1.252598	6.015794
Stddev	.02780	.0021622	.0067633	.0094060	.0031104	.014703	.090754
%RSD	.2087724	.8969342	1.574047	1.463070	1.745415	1.173770	1.508593
#1	13.29485	.2421228	.4224550	.6334555	.1794364	1.239599	5.921026
#2	13.34827	.2424962	.4358640	.6522671	.1805101	1.268555	6.101914
#3	13.30819	.2385785	.4307001	.6429565	.1746667	1.249641	6.024442

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08MSD Acquired: 10/28/2024 18:55:51 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6589322	.1692725	.2373333
Stddev	.0082298	.0022507	.0034400
%RSD	1.248965	1.329615	1.449421
#1	.6529386	.1686795	.2390474
#2	.6683155	.1717604	.2395795
#3	.6555424	.1673778	.2333731

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2550.664	55056.58	13592.37	1763.498	3936.063
Stddev	34.581	224.72	135.72	10.084	47.727
%RSD	1.355769	.4081616	.9985212	.5718078	1.212569
#1	2586.648	55279.28	13508.40	1773.447	3987.144
#2	2517.681	55060.55	13519.77	1763.763	3892.606
#3	2547.663	54829.90	13748.95	1753.285	3928.440

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08A Acquired: 10/28/2024 18:59:59 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7361055	1.739778	.8279121	1.881499	.7917412	1.908799	.2639209
Stddev	.0011012	.040717	.0022810	.009559	.0036414	.024434	.0025853
%RSD	.1496036	2.340353	.2755160	.5080620	.4599275	1.280079	.9795905
#1	.7363526	1.786564	.8281631	1.882058	.7904539	1.881928	.2611303
#2	.7370622	1.720415	.8300573	1.890766	.7958515	1.914787	.2662346
#3	.7349017	1.712357	.8255160	1.871673	.7889183	1.929683	.2643978

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1676433	.1750382	39.64073	.3802917	.1895486	.2791689	10.35913
Stddev	.0014175	.0003986	.51085	.0005078	.0002428	.0013382	.07111
%RSD	.8455479	.2277116	1.288688	.1335297	.1280941	.4793410	.6864499
#1	.1661069	.1746431	39.05112	.3800876	.1894378	.2780945	10.27716
#2	.1689004	.1754401	39.95102	.3808698	.1893810	.2806679	10.40415
#3	.1679225	.1750312	39.92004	.3799178	.1898271	.2787444	10.39610

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.193640	9.889498	.4762923	.0750474	388.6833	.2639712	.2362076
Stddev	.013883	.157008	.0011048	.0001299	4.6150	.0041838	.0008901
%RSD	1.163050	1.587626	.2319473	.1730722	1.187336	1.584927	.3768471
#1	1.177727	9.708237	.4756959	.0748987	388.6095	.2591963	.2361070
#2	1.203272	9.983301	.4775671	.0751047	393.3347	.2669942	.2371437
#3	1.199920	9.976955	.4756139	.0751388	384.1056	.2657230	.2353720

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.97044	.2398608	.4272124	.6452713	.1783224	1.213680	6.071619
Stddev	.05078	.0029896	.0014519	.0012422	.0015582	.003300	.014667
%RSD	.3914832	1.246395	.3398516	.1925034	.8738008	.2719060	.2415583
#1	12.91569	.2365492	.4268533	.6439183	.1769878	1.210183	6.055785
#2	13.01599	.2423609	.4288101	.6463602	.1800347	1.216739	6.084739
#3	12.97963	.2406723	.4259736	.6455354	.1779446	1.214119	6.074332

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-08A Acquired: 10/28/2024 18:59:59 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6531677	.1689195	.2365028
Stddev	.0014982	.0018459	.0021432
%RSD	.2293726	1.092794	.9061863
#1	.6548868	.1667888	.2340331
#2	.6524764	.1699336	.2378737
#3	.6521400	.1700360	.2376016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2577.695	56283.67	13591.55	1781.907	3955.918
Stddev	15.847	52.23	103.40	4.225	15.735
%RSD	.6147612	.0927918	.7607727	.2370816	.3977696
#1	2579.683	56313.73	13707.88	1785.036	3959.978
#2	2560.948	56223.37	13510.09	1777.102	3938.551
#3	2592.454	56313.92	13556.68	1783.584	3969.226

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164393TB Acquired: 10/28/2024 19:04:07 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.007557	-.009923	-.001421	.0046653	.0009209	.0142139
Stddev	.002461	.000735	.000247	.0012169	.0006441	.0055291
%RSD	32.57085	7.408349	17.36615	26.08316	69.94528	38.89939
#1	-.008524	-.009081	-.001585	.0037823	.0016534	.0114812
#2	-.009388	-.010252	-.001137	.0060533	.0004430	.0205772
#3	-.004759	-.010437	-.001541	.0041602	.0006663	.0105832

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004223	-.000190	-.000237	.0032611	.0090566	-.000098
Stddev	.000222	.000027	.000043	.0056038	.0002899	.000230
%RSD	5.248125	14.12309	18.28890	171.8400	3.201147	235.8803
#1	-.004472	-.000159	-.000213	.0060232	.0087579	.000151
#2	-.004047	-.000204	-.000211	.0069476	.0093369	-.000304
#3	-.004149	-.000206	-.000287	-.003188	.0090752	-.000139

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000614	.0294002	.0018254	.0055522	.0059413	.0004915
Stddev	.000131	.0006216	.0001108	.0070007	.0002576	.0001129
%RSD	21.30655	2.114404	6.070030	126.0872	4.335493	22.96630
#1	-.000463	.0290518	.0019531	.0046890	.0062337	.0006121
#2	-.000696	.0290309	.0017542	-.000977	.0058421	.0003884
#3	-.000683	.0301179	.0017690	.012944	.0057480	.0004741

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 356.1522	-.000933	-.002993	.0902563	-.006020	.0003906
Stddev	2.3269	.000618	.000345	.0243365	.000460	.0003994
%RSD	.6533501	66.26495	11.52209	26.96379	7.633551	102.2561
#1	358.8277	-.000239	-.002595	.0862911	-.006090	.0003487
#2	354.6004	-.001425	-.003204	.0681458	-.005530	.0000138
#3	355.0285	-.001135	-.003181	.1163319	-.006441	.0008094

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164393TB Acquired: 10/28/2024 19:04:07 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000439	.0005487	-.002012	-.004016	.0078647	-.000432
Stddev	.000513	.0004297	.003205	.000848	.0014905	.000796
%RSD	116.7209	78.31218	159.2833	21.12148	18.95173	184.3075
#1	-.000969	.0008333	-.004383	-.003038	.0069119	-.000034
#2	-.000405	.0000544	-.003287	-.004547	.0095824	-.001349
#3	.000055	.0007585	.001634	-.004463	.0070999	.000087

Elem	Sr4077
Units	ppm
Avg	-.000059
Stddev	.000021
%RSD	36.09390
#1	-.000062
#2	-.000079
#3	-.000037

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2608.626	57271.76	13592.04	1851.654	4081.928
Stddev	7.057	117.58	94.17	12.801	11.089
%RSD	.2705391	.2053032	.6928406	.6913021	.2716606
#1	2613.717	57161.31	13699.24	1845.711	4089.395
#2	2611.590	57395.36	13554.17	1866.345	4087.203
#3	2600.570	57258.62	13522.69	1842.904	4069.187

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164453BL Acquired: 10/28/2024 19:08:35 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0008761	-.002362	-.000836	-.001224	.0008910	.0083619	-.002850
Stddev	.0006743	.000471	.000459	.001530	.0005684	.0026696	.000161
%RSD	76.95922	19.94949	54.88041	124.9873	63.79823	31.92594	5.660988
#1	.0002608	-.002781	-.000656	-.002941	.0013592	.0054928	-.002882
#2	.0007707	-.001852	-.000494	-.000725	.0010552	.0107726	-.002675
#3	.0015969	-.002454	-.001358	-.000006	.0002585	.0088204	-.002993

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000143	.0000231	.0006789	-.000460	.0000791	-.001341	-.014377
Stddev	.0000103	.0000886	.0073628	.000082	.0001384	.000074	.001464
%RSD	72.20980	383.7254	1084.512	17.79783	174.9581	5.497951	10.18163
#1	.0000093	-.000056	-.005794	-.000548	.0001799	-.001261	-.012849
#2	.0000262	.000119	.008689	-.000443	.0001361	-.001407	-.015767
#3	.0000074	.000007	-.000858	-.000387	-.000079	-.001356	-.014516

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000295	.0050477	.0003011	.0005404	.5106683	.0003698	-.003859
Stddev	.000086	.0020265	.0002994	.0001581	.0334153	.0011675	.000210
%RSD	29.03412	40.14628	99.40943	29.25814	6.543444	315.7406	5.443391
#1	-.000358	.0053435	-.000023	.0005074	.5476722	-.000933	-.004101
#2	-.000197	.0028896	.000358	.0007124	.5016330	.000719	-.003755
#3	-.000329	.0069101	.000568	.0004014	.4826997	.001323	-.003721

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0868057	-.006212	-.000240	.0019224	.0004399	-.015247	-.002811
Stddev	.0038687	.000123	.000084	.0005770	.0000847	.003005	.002717
%RSD	4.456721	1.979009	35.11560	30.01513	19.26204	19.70822	96.64762
#1	.0833924	-.006315	-.000171	.0018145	.0003966	-.012803	-.002554
#2	.0860166	-.006246	-.000334	.0014070	.0005375	-.018602	-.000232
#3	.0910081	-.006076	-.000216	.0025458	.0003855	-.014336	-.005647

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164453BL Acquired: 10/28/2024 19:08:35 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.001238	.0012662	-.000024
Stddev	.002394	.0022050	.000006
%RSD	193.3164	174.1454	23.67163
#1	.001440	.0038036	-.000028
#2	-.003171	.0001793	-.000018
#3	-.001984	-.000184	-.000027

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2913.260	63977.99	13632.81	2080.469	4875.302
Stddev	6.504	290.15	63.63	5.622	2.967
%RSD	.2232420	.4535092	.4667724	.2702301	.0608550
#1	2919.620	64299.77	13609.63	2084.685	4878.363
#2	2913.538	63897.89	13584.01	2082.635	4872.439
#3	2906.621	63736.31	13704.78	2074.086	4875.105

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164453BS Acquired: 10/28/2024 19:12:57 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7734186	2.092714	.9598839	2.010377	.8325029	2.024173
Stddev	.0037078	.043888	.0008735	.002939	.0014503	.007173
%RSD	.4794061	2.097190	.0909982	.1461730	.1742047	.3543568
#1	.7776526	2.129018	.9602685	2.011069	.8341596	2.024089
#2	.7718515	2.105183	.9588841	2.012907	.8314630	2.017042
#3	.7707516	2.043940	.9604991	2.007154	.8318861	2.031387

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1889725	.1974011	.1885898	1.018775	.4009399	.2030027
Stddev	.0014133	.0009450	.0003558	.007721	.0017413	.0002599
%RSD	.7478812	.4787242	.1886397	.7578299	.4343053	.1280215
#1	.1896417	.1969559	.1885681	1.021947	.3990418	.2030293
#2	.1873489	.1967610	.1889559	1.009973	.4013147	.2032482
#3	.1899269	.1984865	.1882454	1.024404	.4024634	.2027305

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3277025	3.016981	.1894567	1.906645	.5097817	.0798488
Stddev	.0006623	.018174	.0013878	.031731	.0000894	.0005841
%RSD	.2021096	.6023820	.7325009	1.664247	.0175276	.7315410
#1	.3284589	3.006063	.1885398	1.882656	.5096978	.0797850
#2	.3274224	3.006920	.1887769	1.894656	.5097717	.0804622
#3	.3272263	3.037960	.1910533	1.942625	.5098757	.0792992

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.004790	.2924749	.2171877	10.42000	.2810027	.4433278
Stddev	.023068	.0036862	.0003024	.02247	.0014043	.0002988
%RSD	.7677167	1.260329	.1392156	.2156036	.4997307	.0673943
#1	3.023698	.2949395	.2172376	10.44139	.2807456	.4434667
#2	2.979087	.2882373	.2174619	10.39659	.2797447	.4429848
#3	3.011584	.2942479	.2168634	10.42201	.2825177	.4435317

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164453BS Acquired: 10/28/2024 19:12:57 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6968079	.1903005	F .7066463	5.961507	F -.012277	.1765214
Stddev	.0024213	.0008086	.0072495	.021966	.001455	.0019485
%RSD	.3474857	.4249205	1.025900	.3684677	11.85524	1.103827
#1	.6975480	.1905672	.7148674	5.984144	-.011035	.1774623
#2	.6987727	.1893922	.7011702	5.960097	-.013878	.1742810
#3	.6941029	.1909420	.7039012	5.940279	-.011917	.1778209

Elem	Sr4077
Units	ppm
Avg	.1978285
Stddev	.0013812
%RSD	.6981692
#1	.1988963
#2	.1962687
#3	.1983206

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2869.037	62252.67	13513.42	1994.031	4705.045
Stddev	3.150	46.38	47.77	9.270	4.055
%RSD	.1097884	.0744951	.3534668	.4648987	.0861867
#1	2869.626	62216.29	13518.30	1986.660	4701.141
#2	2871.850	62304.89	13558.55	1990.994	4709.236
#3	2865.634	62236.82	13463.40	2004.439	4704.758

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-01 Acquired: 10/28/2024 19:16:56 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0416603	-.002337	.1542648	-.040307	.0007562	120.9810
Stddev	.0030372	.001107	.0008894	.002311	.0019271	.1639
%RSD	7.290271	47.35842	.5765308	5.732395	254.8485	.1355079
#1	.0393813	-.003271	.1533179	-.042954	-.001192	120.9055
#2	.0451082	-.002624	.1550825	-.039278	.002661	121.1690
#3	.0404913	-.001115	.1543942	-.038690	.000799	120.8684

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7776296	.0108641	.0293437	20.90571	.2461571	.1514036
Stddev	.0029336	.0001565	.0002061	.02909	.0015407	.0003787
%RSD	.3772471	1.440433	.7025105	.1391621	.6259054	.2501020
#1	.7808702	.0110307	.0295195	20.87773	.2468795	.1509744
#2	.7751548	.0108413	.0291168	20.90359	.2472039	.1515458
#3	.7768639	.0107202	.0293947	20.93580	.2443880	.1516906

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9961016	267.7907	7.364165	52.27422	.2936437	.0110664
Stddev	.0016248	.9453	.003759	.45178	.0006069	.0003642
%RSD	.1631143	.3530001	.0510458	.8642438	.2066705	3.291413
#1	.9978591	266.8220	7.359862	51.75590	.2940558	.0107983
#2	.9957912	267.8395	7.365826	52.58445	.2939286	.0109199
#3	.9946543	268.7107	7.366808	52.48232	.2929468	.0114811

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.954013	.3219244	.5750066	23.05140	.1082138	.0007578
Stddev	.027445	.0002879	.0023820	.03336	.0019090	.0001944
%RSD	.2757174	.0894300	.4142626	.1447111	1.764118	25.64906
#1	9.975821	.3217712	.5776615	23.08501	.1060617	.0009815
#2	9.923196	.3217454	.5730565	23.01830	.1097032	.0006616
#3	9.963023	.3222565	.5743019	23.05088	.1088765	.0006303

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-01 Acquired: 10/28/2024 19:16:56 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0121698	5.040985	F 11.96056	7.992548	.2892705	.1793339
Stddev	.0018937	.006676	.01651	.035061	.0028134	.0008119
%RSD	15.56065	.1324437	.1380516	.4386677	.9725718	.4527449
#1	.0113141	5.048420	11.94202	8.033030	.2909294	.1802005
#2	.0108550	5.039033	11.96597	7.971938	.2908600	.1792104
#3	.0143403	5.035502	11.97368	7.972675	.2860222	.1785908

Elem	Sr4077
Units	ppm
Avg	-.140308
Stddev	.001543
%RSD	1.099643
#1	-.138650
#2	-.140574
#3	-.141701

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3325.785	72646.66	17452.87	2314.722	4042.867
Stddev	10.834	106.62	27.15	9.896	9.696
%RSD	.3257455	.1467597	.1555398	.4275326	.2398253
#1	3313.552	72769.71	17451.55	2322.967	4032.342
#2	3334.166	72581.77	17426.41	2317.451	4051.435
#3	3329.638	72588.50	17480.65	2303.747	4044.825

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05 Acquired: 10/28/2024 19:21:02 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0448688	-.006437	.1809869	-.049236	.0032416	116.4849
Stddev	.0022608	.005957	.0017870	.001017	.0016139	.0850
%RSD	5.038720	92.54297	.9873802	2.065969	49.78663	.0729295
#1	.0422641	-.012975	.1818619	-.050389	.0036110	116.5293
#2	.0460204	-.001318	.1821677	-.048854	.0014751	116.5385
#3	.0463220	-.005017	.1789309	-.048465	.0046388	116.3870

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.092870	.0135318	.0366296	116.8736	.2815876	.1901825
Stddev	.005475	.0000882	.0002948	.4951	.0009642	.0003969
%RSD	.5009570	.6519639	.8048838	.4236459	.3424299	.2086799
#1	1.091376	.0136140	.0368970	116.3638	.2804848	.1898100
#2	1.098936	.0135427	.0366782	116.9046	.2820060	.1901376
#3	1.088296	.0134386	.0363134	117.3526	.2822720	.1905999

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.177155	301.5898	7.198261	69.97507	.3844074	.0111772
Stddev	.003044	1.4142	.036107	.39801	.0007411	.0002159
%RSD	.2585472	.4689034	.5016046	.5687863	.1927769	1.931787
#1	1.180280	299.9649	7.156576	69.64976	.3844725	.0109328
#2	1.174200	302.5421	7.219834	69.85658	.3836360	.0113419
#3	1.176984	302.2625	7.218371	70.41886	.3851138	.0112569

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.04567	.3398049	.7293125	31.60071	.1302421	.0010726
Stddev	.08258	.0028199	.0012251	.12694	.0013882	.0001408
%RSD	.7476042	.8298584	.1679863	.4016908	1.065876	13.12932
#1	11.04652	.3376129	.7284225	31.58348	.1289327	.0011278
#2	11.12782	.3388157	.7288051	31.73539	.1300960	.0011775
#3	10.96267	.3429861	.7307098	31.48327	.1316976	.0009126

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05 Acquired: 10/28/2024 19:21:02 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0144547	4.996792	8.201886	F 11.32209	.2638051	.2680493
Stddev	.0026355	.010433	.012470	.02187	.0048320	.0011401
%RSD	18.23275	.2087917	.1520385	.1931877	1.831662	.4253371
#1	.0137695	4.989325	8.189130	11.29796	.2691764	.2691857
#2	.0122294	5.008712	8.202480	11.32771	.2598116	.2680568
#3	.0173651	4.992337	8.214049	11.34061	.2624275	.2669055

Elem	Sr4077
Units	ppm
Avg	-.089352
Stddev	.001203
%RSD	1.345847
#1	-.088105
#2	-.089445
#3	-.090505

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3235.333	72101.29	17200.96	2266.566	3851.707
Stddev	10.645	138.57	27.93	.727	9.081
%RSD	.3290306	.1921853	.1623719	.0320652	.2357693
#1	3226.643	72092.29	17228.55	2266.579	3845.838
#2	3232.150	71967.44	17172.71	2267.286	3847.117
#3	3247.207	72244.13	17201.62	2265.833	3862.167

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4531-01 Acquired: 10/28/2024 19:25:06 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0353525	-.017720	.3331935	-.037643	.0135959	146.7630
Stddev	.0007903	.001654	.0015281	.000340	.0009265	1.0787
%RSD	2.235450	9.331715	.4586139	.9024477	6.814875	.7350163
#1	.0355099	-.015846	.3315676	-.037355	.0129423	145.7363
#2	.0344954	-.018337	.3346000	-.038018	.0131892	147.8871
#3	.0360522	-.018976	.3334128	-.037556	.0146562	146.6656

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7484213	.0083563	.0278784	46.52103	.1988317	.1432990
Stddev	.0010316	.0000772	.0002128	.14482	.0005582	.0006361
%RSD	.1378326	.9238507	.7632326	.3112894	.2807490	.4438814
#1	.7474664	.0083841	.0278121	46.35487	.1988389	.1429072
#2	.7482821	.0084157	.0277067	46.62036	.1982699	.1440329
#3	.7495154	.0082690	.0281164	46.58786	.1993862	.1429569

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3419484	249.7880	3.495597	47.81981	.2233563	.0101283
Stddev	.0004577	.5714	.006907	.22375	.0006074	.0002288
%RSD	.1338546	.2287561	.1976059	.4679090	.2719271	2.258846
#1	.3415949	249.1619	3.488806	47.56156	.2227212	.0102593
#2	.3424654	250.2813	3.502615	47.95559	.2239314	.0102614
#3	.3417848	249.9208	3.495369	47.94229	.2234164	.0098641

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.29667	.5024275	.5696972	17.59841	.1377235	.0036959
Stddev	.02435	.0020357	.0017800	.02892	.0019975	.0004411
%RSD	.2364674	.4051767	.3124506	.1643564	1.450343	11.93524
#1	10.27781	.5035322	.5688125	17.58369	.1385450	.0035832
#2	10.28803	.5036719	.5717462	17.57981	.1354462	.0041825
#3	10.32415	.5000782	.5685328	17.63174	.1391792	.0033221

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4531-01 Acquired: 10/28/2024 19:25:06 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0211142	6.515576	F 11.25640	9.155929	4.115882	.1321654
Stddev	.0003122	.012121	.04372	.025388	.019047	.0014170
%RSD	1.478374	.1860248	.3884447	.2772878	.4627600	1.072151
#1	.0209279	6.501855	11.21453	9.139014	4.096660	.1306500
#2	.0214745	6.520042	11.25291	9.143651	4.134749	.1334575
#3	.0209401	6.524829	11.30177	9.185123	4.116237	.1323887

Elem	Sr4077
Units	ppm
Avg	-.088804
Stddev	.000585
%RSD	.6584226
#1	-.088294
#2	-.089442
#3	-.088677

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3214.178	72161.02	16654.95	2314.615	3975.252
Stddev	2.347	89.28	38.67	17.496	2.364
%RSD	.0730048	.1237208	.2321592	.7558804	.0594778
#1	3211.572	72099.68	16649.02	2310.063	3973.329
#2	3216.122	72119.94	16619.59	2299.846	3974.535
#3	3214.839	72263.45	16696.24	2333.937	3977.892

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4545-01 Acquired: 10/28/2024 19:29:18 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0884488	.0020019	1.327513	-.043401	.0112083	159.8973
Stddev	.0029330	.0015743	.004459	.001398	.0007841	.7081
%RSD	3.316082	78.63809	.3359055	3.222032	6.995381	.4428703
#1	.0915454	.0034105	1.322433	-.041787	.0119507	159.0825
#2	.0880884	.0003025	1.330783	-.044195	.0103883	160.3639
#3	.0857127	.0022926	1.329321	-.044222	.0112859	160.2455

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.677333	.0104661	.0427705	75.04209	.2794759	.1690839
Stddev	.006022	.0001018	.0000733	.14025	.0013320	.0002306
%RSD	.2249106	.9729305	.1713311	.1868896	.4766108	.1364063
#1	2.684222	.0103618	.0427041	74.88351	.2809883	.1688369
#2	2.673069	.0105653	.0428491	75.09293	.2784775	.1692936
#3	2.674710	.0104712	.0427583	75.14982	.2789619	.1691213

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4982749	293.8456	10.88393	34.31631	.3224132	.0122870
Stddev	.0014752	.5468	.01766	.11674	.0004443	.0002268
%RSD	.2960560	.1860713	.1622452	.3402024	.1378015	1.845635
#1	.4996468	293.2143	10.89724	34.18669	.3221478	.0121704
#2	.4967146	294.1692	10.89065	34.41319	.3229261	.0121422
#3	.4984633	294.1532	10.86390	34.34905	.3221657	.0125484

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.846968	.4156631	1.535794	11.10090	.0942605	.0134438
Stddev	.017052	.0022618	.008801	.04447	.0011816	.0005582
%RSD	.2916401	.5441527	.5730647	.4005909	1.253565	4.151837
#1	5.840795	.4131812	1.544169	11.05093	.0934361	.0140140
#2	5.833861	.4176084	1.526621	11.11565	.0956142	.0128985
#3	5.866246	.4161998	1.536590	11.13612	.0937311	.0134190

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4545-01 Acquired: 10/28/2024 19:29:18 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.1711022	4.239644	F 13.91310	8.066525	4.016232	.1275475
Stddev	.0007361	.001689	.07173	.009938	.004943	.0012008
%RSD	.4301813	.0398352	.5155649	.1231995	.1230864	.9414861
#1	.1707132	4.241393	13.83069	8.055054	4.013104	.1288892
#2	.1719512	4.238023	13.94711	8.071986	4.021931	.1271797
#3	.1706423	4.239517	13.96150	8.072534	4.013661	.1265736

Elem	Sr4077
Units	ppm
Avg	.0913736
Stddev	.0014213
%RSD	1.555456
#1	.0929652
#2	.0902312
#3	.0909244

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3123.750	68168.55	16050.80	2206.041	4028.221
Stddev	8.871	53.85	38.57	3.960	5.570
%RSD	.2839808	.0789968	.2403150	.1795208	.1382810
#1	3116.352	68201.45	16022.59	2202.062	4025.992
#2	3133.584	68106.41	16035.05	2209.982	4034.561
#3	3121.313	68197.80	16094.75	2206.079	4024.111

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV08 Acquired: 10/28/2024 19:33:31 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	5.292254	5.469317	5.130018	5.473794	5.399992	10.31105
Stddev	.009940	.077839	.002829	.021226	.016169	.01517
%RSD	.1878162	1.423202	.0551470	.3877668	.2994230	.1470921
#1	5.280778	5.380217	5.131459	5.449487	5.381410	10.29355
#2	5.297864	5.524108	5.126758	5.483225	5.407711	10.32045
#3	5.298121	5.503626	5.131837	5.488669	5.410854	10.31915

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.02608	.2511180	2.569441	24.67534	.9889391	2.569242
Stddev	.11369	.0012330	.001746	.06097	.0016834	.001804
%RSD	1.133935	.4910177	.0679603	.2470692	.1702215	.0702301
#1	10.04715	.2508011	2.571386	24.64983	.9894758	2.571321
#2	10.12776	.2524786	2.568931	24.74491	.9902887	2.568089
#3	9.90333	.2500744	2.568007	24.63127	.9870528	2.568316

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.336584	5.016562	2.358445	24.53918	2.575804	1.313001
Stddev	.003064	.010267	.007688	.11909	.002085	.000998
%RSD	.2292193	.2046635	.3259888	.4852956	.0809636	.0759924
#1	1.333298	5.006778	2.356956	24.55182	2.577433	1.314151
#2	1.339362	5.015656	2.366769	24.65144	2.576525	1.312370
#3	1.337093	5.027252	2.351610	24.41427	2.573454	1.312482

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.68109	2.497173	2.683527	26.65868	4.958751	F 5.503324
Stddev	.11852	.003871	.002609	.09082	.023728	.014837
%RSD	.4615095	.1550042	.0972042	.3406638	.4785127	.2696033
#1	25.63390	2.494424	2.683799	26.61433	4.958799	5.486556
#2	25.59343	2.501599	2.680793	26.59857	4.982456	5.508660
#3	25.81594	2.495494	2.685989	26.76315	4.934999	5.514754

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV08 Acquired: 10/28/2024 19:33:31 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	5.124314	4.902978	5.434532	5.376262	5.054231	4.830365
Stddev	.006244	.008508	.028210	.001578	.017786	.015999
%RSD	.1218557	.1735274	.5190935	.0293469	.3519117	.3312086
#1	5.123422	4.898766	5.410105	5.375444	5.040161	4.813423
#2	5.130956	4.912770	5.428084	5.378080	5.074223	4.832457
#3	5.118563	4.897397	5.465409	5.375260	5.048310	4.845215

Elem	Sr4077
Units	ppm
Avg	5.068753
Stddev	.044340
%RSD	.8747645
#1	5.023922
#2	5.069752
#3	5.112585

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2747.187	60821.56	13067.56	1925.478	4269.626
Stddev	6.428	73.55	50.45	7.484	4.051
%RSD	.2339897	.1209336	.3860809	.3886687	.0948697
#1	2754.423	60766.37	13070.15	1923.415	4273.861
#2	2744.998	60905.06	13015.86	1933.777	4269.228
#3	2742.138	60793.24	13116.67	1919.242	4265.789

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB08 Acquired: 10/28/2024 19:37:42 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.001013	-.002129	-.000538	-.001139	-.000795	.0049642	-.003750
Stddev	.000394	.000748	.001039	.000506	.000288	.0009754	.000301
%RSD	38.88528	35.15478	193.0504	44.40591	36.23518	19.64891	8.035421
#1	-.000869	-.002852	.000493	-.001720	-.000809	.0058707	-.003948
#2	-.000712	-.002178	-.001584	-.000800	-.001076	.0050897	-.003403
#3	-.001460	-.001357	-.000522	-.000896	-.000501	.0039321	-.003899

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000464	.0001156	.0019697	-.000571	.0001951	-.001367	-.011806
Stddev	.0000227	.0000580	.0016570	.000401	.0000684	.000090	.002928
%RSD	48.84202	50.22478	84.12178	70.17986	35.07045	6.597235	24.79929
#1	.0000563	.0001096	.0008058	-.000842	.0002665	-.001436	-.009565
#2	.0000205	.0000607	.0038668	-.000761	.0001888	-.001399	-.010734
#3	.0000624	.0001764	.0012366	-.000111	.0001301	-.001265	-.015119

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000025	.0045685	.0002058	.0007635	-.028304	-.000237	-.004754
Stddev	.000112	.0017488	.0000646	.0001027	.010222	.001094	.000148
%RSD	442.4958	38.27906	31.38210	13.45050	36.11694	461.9181	3.113966
#1	.000045	.0035964	.0001700	.0007508	-.037462	.001025	-.004900
#2	-.000154	.0035217	.0001670	.0008719	-.017275	-.000822	-.004759
#3	.000034	.0065873	.0002803	.0006677	-.030175	-.000914	-.004604

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006981	-.003389	.0002689	.0016851	.0007238	-.007387	-.000693
Stddev	.018505	.000374	.0000766	.0003137	.0001481	.002143	.002338
%RSD	265.0781	11.03460	28.47836	18.61872	20.46489	29.00957	337.5126
#1	.009778	-.003519	.0001904	.0016318	.0006601	-.005831	-.001462
#2	-.026840	-.002967	.0003434	.0014014	.0006183	-.006499	.001933
#3	-.003880	-.003680	.0002729	.0020221	.0008932	-.009831	-.002549

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB08 Acquired: 10/28/2024 19:37:42 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0006185	-.000797	.0000988
Stddev	.0013322	.001265	.0000295
%RSD	215.3892	158.6534	29.79872
#1	.0019002	-.002257	.0000747
#2	-.000759	-.000050	.0000901
#3	.000714	-.000084	.0001317

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2864.544	63423.66	13994.10	2003.532	4841.850
Stddev	2.307	224.19	65.29	5.188	3.565
%RSD	.0805410	.3534748	.4665851	.2589409	.0736220
#1	2864.681	63551.32	14028.56	2006.736	4843.203
#2	2862.172	63164.80	13918.79	1997.547	4844.540
#3	2866.780	63554.86	14034.94	2006.314	4837.807

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05DUP Acquired: 10/28/2024 19:42:03 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0409516	-.001365	.1646331	-.045763	.0029185	106.2774
Stddev	.0028029	.001567	.0024874	.001562	.0018973	.1291
%RSD	6.844417	114.7964	1.510875	3.413959	65.00998	.1214534
#1	.0440070	.000149	.1668007	-.046060	.0021622	106.1506
#2	.0384995	-.002981	.1651813	-.047156	.0050773	106.4086
#3	.0403481	-.001264	.1619173	-.044074	.0015160	106.2730

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.008656	.0125804	.0318743	166.6849	.2665144	.1707753
Stddev	.004621	.0001676	.0000982	.0611	.0005789	.0003364
%RSD	.4581643	1.332537	.3080958	.0366769	.2172269	.1969773
#1	1.005030	.0124108	.0318264	166.7513	.2669351	.1710546
#2	1.007078	.0125844	.0318093	166.6726	.2658541	.1708695
#3	1.013859	.0127460	.0319873	166.6309	.2667538	.1704019

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9605814	282.9513	7.227132	65.60993	.3574976	.0104595
Stddev	.0018696	.1890	.016244	.06128	.0005101	.0001657
%RSD	.1946310	.0668094	.2247679	.0934040	.1426830	1.584211
#1	.9625779	282.7965	7.234394	65.61911	.3574361	.0104246
#2	.9602943	282.8955	7.208524	65.66610	.3570211	.0103141
#3	.9588719	283.1620	7.238479	65.54457	.3580357	.0106399

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.40411	.3165914	.6886798	32.41294	.1375788	.0010030
Stddev	.07454	.0010674	.0012182	.13542	.0009508	.0001974
%RSD	.7164169	.3371506	.1768922	.4177836	.6911183	19.67763
#1	10.33558	.3178235	.6883533	32.25666	.1365098	.0008377
#2	10.39328	.3159451	.6876581	32.48669	.1378965	.0012215
#3	10.48347	.3160057	.6900280	32.49547	.1383301	.0009497

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05DUP Acquired: 10/28/2024 19:42:03 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0169165	5.145399	F 13.01296	F 10.21604	.4168129	.2673879
Stddev	.0013701	.006276	.01633	.04546	.0094390	.0028434
%RSD	8.099090	.1219786	.1255183	.4449734	2.264557	1.063399
#1	.0172277	5.142197	12.99481	10.19848	.4144392	.2651646
#2	.0181042	5.141369	13.02648	10.18198	.4087873	.2664073
#3	.0154175	5.152630	13.01758	10.26766	.4272121	.2705918

Elem	Sr4077
Units	ppm
Avg	.0073884
Stddev	.0008534
%RSD	11.55071
#1	.0069263
#2	.0068656
#3	.0083732

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3104.588	68750.43	16410.55	2176.618	3802.858
Stddev	14.129	216.97	65.87	6.460	12.804
%RSD	.4550989	.3155850	.4014111	.2967780	.3367023
#1	3088.912	68590.27	16335.93	2171.290	3788.418
#2	3108.514	68663.67	16435.13	2174.760	3807.325
#3	3116.339	68997.35	16460.61	2183.803	3812.830

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05LX5 Acquired: 10/28/2024 19:46:08 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0079949	-.001357	.0387308	-.012358	.0004482	28.80002	.2713676
Stddev	.0029824	.001690	.0006445	.001216	.0021217	.04912	.0004460
%RSD	37.30398	124.5989	1.663997	9.836750	473.3761	.1705408	.1643527
#1	.0085910	.000070	.0392917	-.013749	-.001766	28.74652	.2715430
#2	.0106343	-.000917	.0388739	-.011828	.002464	28.81050	.2708605
#3	.0047595	-.003224	.0380268	-.011497	.000647	28.84306	.2716992

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037464	.0048352	30.20881	.0745513	.0397785	.3136401	77.17036
Stddev	.0000356	.0000793	.06971	.0002840	.0002255	.0004230	.39215
%RSD	.9503749	1.640192	.2307505	.3809392	.5669484	.1348581	.5081550
#1	.0037473	.0047452	30.15966	.0747078	.0397407	.3131606	76.73737
#2	.0037104	.0048951	30.17818	.0742235	.0395742	.3137991	77.27211
#3	.0037816	.0048651	30.28859	.0747227	.0400205	.3139605	77.50161

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.894136	17.92154	.0821047	.0030384	2.531054	.0879856	.1789082
Stddev	.006024	.06447	.0003442	.0000463	.007956	.0005910	.0001686
%RSD	.3180462	.3597354	.4191957	1.523003	.3143500	.6716613	.0942330
#1	1.888862	17.85475	.0821826	.0029928	2.521889	.0885941	.1787309
#2	1.892844	17.92646	.0817283	.0030372	2.535090	.0874138	.1790664
#3	1.900701	17.98341	.0824033	.0030853	2.536184	.0879491	.1789275

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.479773	.0303752	.0001675	.0021129	1.320046	2.171438	2.353577
Stddev	.016157	.0010522	.0005666	.0009318	.002330	.008136	.006758
%RSD	.2160073	3.464102	338.2105	44.10147	.1765179	.3747049	.2871436
#1	7.478142	.0295388	.0007670	.0031811	1.319242	2.162528	2.353860
#2	7.464494	.0300303	.0000946	.0014672	1.318225	2.178474	2.346682
#3	7.496684	.0315566	-.000359	.0016904	1.322672	2.173310	2.360189

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05LX5 Acquired: 10/28/2024 19:46:08 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0458302	.0655201	-.023413
Stddev	.0073050	.0009562	.000402
%RSD	15.93932	1.459398	1.715682
#1	.0467797	.0653702	-.022954
#2	.0526140	.0665424	-.023583
#3	.0380969	.0646477	-.023701

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2945.199	63952.59	14374.57	2096.204	4355.197
Stddev	2.932	68.00	23.70	6.240	5.495
%RSD	.0995481	.1063330	.1648571	.2976850	.1261696
#1	2941.831	63973.83	14349.86	2089.106	4348.996
#2	2946.585	63876.50	14397.10	2100.825	4359.459
#3	2947.181	64007.44	14376.74	2098.683	4357.137

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05MS Acquired: 10/28/2024 19:50:18 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6493851	1.843616	1.057362	1.457223	.6511738	118.6733
Stddev	.0020322	.039831	.001244	.004616	.0022551	.2064
%RSD	.3129395	2.160459	.1176072	.3167505	.3463093	.1738961
#1	.6512856	1.889608	1.056320	1.462213	.6536259	118.4741
#2	.6496268	1.820574	1.057027	1.453107	.6507063	118.8862
#3	.6472428	1.820665	1.058738	1.456350	.6491891	118.6596

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.255215	.1560588	.2181777	120.8474	.5810888	.3840871
Stddev	.004048	.0005201	.0001909	.3778	.0005458	.0006131
%RSD	.3225128	.3332779	.0874972	.3126360	.0939203	.1596160
#1	1.252567	.1559830	.2183685	120.4193	.5805454	.3846894
#2	1.259875	.1555808	.2179868	121.1340	.5810842	.3834638
#3	1.253202	.1566127	.2181779	120.9889	.5816369	.3841080

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.358735	305.6745	7.423968	71.87495	.8632559	.0744556
Stddev	.002673	1.2046	.021283	.23984	.0003346	.0004513
%RSD	.1967233	.3940741	.2866858	.3336916	.0387615	.6061902
#1	1.358757	304.2838	7.400734	71.59826	.8630590	.0739599
#2	1.361397	306.3928	7.442522	72.00301	.8630663	.0748428
#3	1.356051	306.3468	7.428647	72.02358	.8636422	.0745641

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.80306	.5603065	.8894094	40.90726	.3380111	.3424557
Stddev	.06257	.0025052	.0019678	.11658	.0007539	.0010467
%RSD	.4533171	.4471077	.2212513	.2849969	.2230543	.3056602
#1	13.73691	.5608342	.8899240	40.79860	.3371408	.3434872
#2	13.86130	.5625057	.8872353	41.03041	.3384287	.3424857
#3	13.81097	.5575794	.8910687	40.89277	.3384640	.3413943

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05MS Acquired: 10/28/2024 19:50:18 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6863324	5.303502	F 10.01852	F 17.07962	.2522262	.4165882
Stddev	.0011591	.015024	.04167	.04506	.0077163	.0005449
%RSD	.1688841	.2832872	.4159328	.2638017	3.059284	.1308027
#1	.6869629	5.287488	9.97107	17.12671	.2541813	.4163266
#2	.6849947	5.317287	10.04919	17.07522	.2587768	.4162234
#3	.6870396	5.305732	10.03529	17.03692	.2437203	.4172146

Elem	Sr4077
Units	ppm
Avg	.0677222
Stddev	.0014177
%RSD	2.093423
#1	.0687975
#2	.0682535
#3	.0661156

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3249.647	70220.77	16665.13	2240.368	3874.191
Stddev	7.663	72.71	31.84	4.913	5.295
%RSD	.2357964	.1035497	.1910472	.2192727	.1366741
#1	3247.391	70164.90	16634.56	2234.910	3872.108
#2	3243.365	70194.43	16662.73	2241.760	3870.255
#3	3258.184	70302.98	16698.10	2244.435	3880.211

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05MSD Acquired: 10/28/2024 19:54:16 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6483821	1.784289	1.047373	1.454095	.6496278	118.3654
Stddev	.0041107	.015748	.003017	.003888	.0017902	.2411
%RSD	.6339904	.8826065	.2880977	.2673534	.2755744	.2037246
#1	.6503459	1.797049	1.050856	1.453278	.6485465	118.2245
#2	.6436579	1.766689	1.045556	1.450682	.6486426	118.2279
#3	.6511426	1.789129	1.045706	1.458327	.6516942	118.6439

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.241887	.1524382	.2179123	120.3844	.5641378	.3809638
Stddev	.002690	.0004248	.0002559	.3989	.0014789	.0003303
%RSD	.2165892	.2786802	.1174242	.3313777	.2621513	.0866898
#1	1.239768	.1521335	.2179555	119.9251	.5642551	.3809838
#2	1.240980	.1529235	.2176376	120.5833	.5655546	.3812836
#3	1.244913	.1522577	.2181439	120.6447	.5626038	.3806240

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.361815	294.1643	7.310326	71.24825	.8576554	.0720271
Stddev	.001980	.7327	.026431	.32235	.0004239	.0003655
%RSD	.1454189	.2490936	.3615518	.4524321	.0494303	.5074602
#1	1.361582	293.3213	7.280541	70.87657	.8572985	.0716862
#2	1.359961	294.5236	7.319453	71.41684	.8575438	.0719820
#3	1.363901	294.6481	7.330983	71.45134	.8581240	.0724130

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.31098	.5524522	.8705462	39.70792	.3124610	.3391620
Stddev	.02095	.0017446	.0013707	.06753	.0015129	.0014423
%RSD	.1573823	.3157943	.1574526	.1700695	.4841782	.4252496
#1	13.31431	.5515663	.8705499	39.69922	.3117442	.3378884
#2	13.28857	.5513282	.8691737	39.64515	.3114397	.3388695
#3	13.33007	.5544620	.8719151	39.77937	.3141990	.3407281

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05MSD Acquired: 10/28/2024 19:54:16 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6776838	5.338840	F 10.43908	F 16.78754	.2522544	.4114092
Stddev	.0027265	.009702	.02257	.02469	.0014221	.0025175
%RSD	.4023221	.1817317	.2161842	.1470776	.5637455	.6119138
#1	.6796826	5.329705	10.41364	16.79770	.2506506	.4091184
#2	.6745779	5.337791	10.44691	16.75939	.2527509	.4110048
#3	.6787908	5.349025	10.45668	16.80554	.2533616	.4141044

Elem	Sr4077
Units	ppm
Avg	.0766643
Stddev	.0009042
%RSD	1.179459
#1	.0767279
#2	.0757300
#3	.0775350

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3231.967	72624.11	16846.48	2257.451	3870.725
Stddev	8.708	172.89	18.56	6.243	5.989
%RSD	.2694277	.2380573	.1101819	.2765464	.1547204
#1	3241.309	72425.75	16826.55	2253.872	3877.445
#2	3230.516	72742.78	16849.60	2264.659	3868.778
#3	3224.076	72703.80	16863.28	2253.820	3865.952

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05A Acquired: 10/28/2024 19:58:12 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6404452	1.763974	1.028356	1.428175	.6360099	121.7206
Stddev	.0041841	.019214	.000916	.007951	.0006634	.0838
%RSD	.6533123	1.089217	.0890548	.5567570	.1042982	.0688352
#1	.6382812	1.754717	1.028197	1.420305	.6352818	121.6540
#2	.6377862	1.751142	1.029340	1.428014	.6365799	121.8147
#3	.6452681	1.786064	1.027529	1.436205	.6361680	121.6930

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.254456	.1495724	.2142357	116.9376	.5674510	.3801065
Stddev	.004593	.0001540	.0000600	.4759	.0014913	.0012579
%RSD	.3660981	.1029468	.0279974	.4069949	.2628005	.3309221
#1	1.256937	.1495603	.2142501	116.3910	.5690677	.3791532
#2	1.257274	.1497321	.2141698	117.2607	.5661293	.3796340
#3	1.249156	.1494248	.2142872	117.1610	.5671560	.3815321

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.368670	303.4942	7.321873	72.47555	.8537854	.0717337
Stddev	.000480	1.4477	.019657	.42096	.0006769	.0005588
%RSD	.0350995	.4770204	.2684738	.5808357	.0792864	.7789368
#1	1.369164	301.8392	7.306674	72.00220	.8540355	.0711335
#2	1.368205	304.5259	7.344072	72.61646	.8530190	.0718287
#3	1.368641	304.1175	7.314873	72.80798	.8543017	.0722389

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.81825	.5534164	.8858652	40.91552	.3210679	.3318109
Stddev	.06546	.0007893	.0035466	.08205	.0005783	.0009317
%RSD	.4737088	.1426228	.4003586	.2005232	.1801228	.2807937
#1	13.82733	.5525053	.8847434	40.91891	.3205284	.3312649
#2	13.87868	.5538512	.8830151	40.99581	.3216784	.3312812
#3	13.74872	.5538927	.8898371	40.83183	.3209968	.3328867

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4547-05A Acquired: 10/28/2024 19:58:12 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6618585	5.706305	F 13.30429	F 16.76818	.2506975	.4103917
Stddev	.0040176	.011858	.04081	.03695	.0070274	.0025890
%RSD	.6070151	.2078043	.3067066	.2203510	2.803136	.6308501
#1	.6619793	5.698568	13.26368	16.75938	.2527547	.4127794
#2	.6577819	5.719957	13.30391	16.73644	.2428712	.4107555
#3	.6658143	5.700390	13.34528	16.80874	.2564668	.4076400

Elem	Sr4077
Units	ppm
Avg	.0595628
Stddev	.0024485
%RSD	4.110727
#1	.0621774
#2	.0591869
#3	.0573239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3214.261	71665.40	16980.81	2263.810	3848.637
Stddev	3.782	97.52	41.60	4.397	7.260
%RSD	.1176740	.1360745	.2449966	.1942402	.1886315
#1	3211.637	71592.62	16947.33	2266.642	3844.474
#2	3218.596	71627.39	16967.71	2266.044	3857.020
#3	3212.549	71776.20	17027.38	2258.744	3844.418

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4561-01 Acquired: 10/28/2024 20:02:09 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0492986	-.004406	.2035126	-.053867	.0018521	116.6743
Stddev	.0027918	.003763	.0007140	.003195	.0013220	.0756
%RSD	5.662954	85.40083	.3508580	5.930439	71.37443	.0648366
#1	.0518340	-.008097	.2040825	-.055168	.0009808	116.5946
#2	.0497550	-.004546	.2027116	-.050227	.0033732	116.7452
#3	.0463067	-.000575	.2037436	-.056206	.0012024	116.6831

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.356576	.0136232	.0395593	210.1979	.2971281	.1947530
Stddev	.001852	.0000646	.0003675	1.0559	.0010001	.0006663
%RSD	.1365217	.4740482	.9289735	.5023426	.3365944	.3421307
#1	1.356345	.0136523	.0398640	209.3114	.2959739	.1939896
#2	1.354849	.0136681	.0396628	209.9162	.2976731	.1950520
#3	1.358532	.0135492	.0391512	211.3661	.2977374	.1952175

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9764179	315.5439	8.231998	73.56249	.3953928	.0112711
Stddev	.0015653	1.3685	.018864	.40776	.0009710	.0001884
%RSD	.1603081	.4337109	.2291542	.5542991	.2455776	1.671297
#1	.9776131	314.0657	8.210227	73.11626	.3942838	.0111304
#2	.9746461	315.7991	8.243479	73.91570	.3960902	.0114851
#3	.9769945	316.7669	8.242288	73.65552	.3958045	.0111978

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.814622	.3606617	.7773440	35.54425	.1457409	.0015103
Stddev	.019044	.0014905	.0017380	.10295	.0032738	.0001859
%RSD	.3955534	.4132767	.2235873	.2896359	2.246306	12.30806
#1	4.814563	.3589553	.7793411	35.43648	.1420497	.0014183
#2	4.795606	.3617089	.7761737	35.55470	.1468802	.0013884
#3	4.833695	.3613211	.7765171	35.64158	.1482928	.0017243

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4561-01 Acquired: 10/28/2024 20:02:09 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0127375	5.576469	8.443479	F 10.88903	.5027791	.3123315
Stddev	.0013127	.002936	.032155	.04754	.0063410	.0013902
%RSD	10.30571	.0526439	.3808213	.4365488	1.261194	.4451146
#1	.0142144	5.573113	8.415324	10.84074	.4988905	.3127109
#2	.0122941	5.577733	8.436595	10.89057	.5100963	.3134926
#3	.0117039	5.578560	8.478518	10.93577	.4993506	.3107909

Elem	Sr4077
Units	ppm
Avg	.0146449
Stddev	.0015175
%RSD	10.36205
#1	.0162687
#2	.0144032
#3	.0132627

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3194.313	70754.61	16899.33	2247.791	3792.786
Stddev	13.987	29.63	27.30	6.808	6.697
%RSD	.4378779	.0418733	.1615371	.3028765	.1765644
#1	3178.173	70759.13	16877.80	2240.340	3785.054
#2	3201.861	70781.72	16890.17	2253.687	3796.734
#3	3202.904	70722.99	16930.04	2249.346	3796.571

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4561-05 Acquired: 10/28/2024 20:06:22 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0449593	.0017118	.1395514	-.034017	.0017587	94.16628	1.010325
Stddev	.0021214	.0027891	.0021868	.002308	.0006508	.11795	.002209
%RSD	4.718545	162.9298	1.567016	6.785571	37.00313	.1252619	.2186596
#1	.0433488	.0041258	.1373366	-.031353	.0022888	94.03533	1.012697
#2	.0473630	.0023511	.1396084	-.035409	.0019550	94.19931	1.008326
#3	.0441660	-.001341	.1417091	-.035289	.0010324	94.26420	1.009952

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093036	.0213884	14.66137	.2012676	.1378535	.2992703	228.7550
Stddev	.0000762	.0002987	.02234	.0009018	.0002282	.0009482	.7237
%RSD	.8193933	1.396366	.1523918	.4480488	.1655491	.3168239	.3163598
#1	.0093139	.0217306	14.63690	.2008901	.1380362	.2988347	228.0622
#2	.0093741	.0211803	14.68068	.2022968	.1379267	.3003579	228.6969
#3	.0092227	.0212543	14.66653	.2006159	.1375977	.2986182	229.5060

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.593107	32.59482	.2477182	.0087740	2.554431	.2640503	.5724539
Stddev	.008383	.17723	.0009219	.0000408	.007758	.0026851	.0019568
%RSD	.3232863	.5437270	.3721664	.4653185	.3037042	1.016890	.3418201
#1	2.583978	32.39418	.2486203	.0087979	2.562461	.2613893	.5733244
#2	2.594884	32.66025	.2477568	.0087268	2.553853	.2640029	.5702129
#3	2.600459	32.73003	.2467776	.0087971	2.546977	.2667588	.5738243

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.39581	.0630218	.0003124	.0104033	3.038250	5.972719	7.069544
Stddev	.01913	.0006451	.0001333	.0006620	.002152	.006452	.018856
%RSD	.1543023	1.023679	42.67994	6.363314	.0708257	.1080206	.2667242
#1	12.41719	.0630422	.0003726	.0103240	3.037051	5.965825	7.091292
#2	12.38993	.0623667	.0001596	.0097845	3.036965	5.978611	7.059583
#3	12.38032	.0636565	.0004051	.0111014	3.040734	5.973723	7.057758

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4561-05 Acquired: 10/28/2024 20:06:22 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	2.084655	.1519593	-.142464
Stddev	.001407	.0010508	.000748
%RSD	.0674962	.6915219	.5250572
#1	2.085691	.1522313	-.141702
#2	2.083053	.1507992	-.142494
#3	2.085222	.1528474	-.143197

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3316.287	72480.87	16482.56	2343.851	4287.815
Stddev	4.023	116.71	10.80	16.876	7.267
%RSD	.1213032	.1610240	.0655125	.7200150	.1694744
#1	3312.223	72346.49	16484.86	2328.793	4279.456
#2	3320.268	72539.19	16492.03	2362.092	4291.363
#3	3316.369	72556.92	16470.80	2340.667	4292.625

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4566-01 Acquired: 10/28/2024 20:10:28 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0346898	-.009353	.2717204	-.045010	.0034237	133.4197	.5703670
Stddev	.0018706	.002108	.0026902	.003024	.0007738	.0936	.0018637
%RSD	5.392277	22.53403	.9900650	6.717636	22.60004	.0701813	.3267514
#1	.0339395	-.009191	.2698501	-.041814	.0043099	133.3472	.5688112
#2	.0368190	-.007331	.2705076	-.045391	.0030790	133.3864	.5698573
#3	.0333108	-.011537	.2748035	-.047826	.0028822	133.5254	.5724325

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107620	.0309922	80.17713	.2132232	.1477154	.2666019	281.8952
Stddev	.0000490	.0000821	.32665	.0004732	.0003109	.0013491	2.2507
%RSD	.4556470	.2650485	.4074135	.2219410	.2104428	.5060499	.7984080
#1	.0107325	.0310857	79.81226	.2129942	.1474107	.2681566	279.6290
#2	.0108186	.0309593	80.27676	.2137674	.1480321	.2659112	281.9265
#3	.0107349	.0309316	80.44236	.2129080	.1477034	.2657381	284.1300

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.831810	47.27704	.1751264	.0105359	12.23569	.4647560	.5680502
Stddev	.023583	.23180	.0006651	.0004525	.06613	.0021982	.0021340
%RSD	.6154645	.4902932	.3798004	4.294837	.5404827	.4729729	.3756649
#1	3.805453	47.01200	.1744220	.0100827	12.18867	.4624047	.5660461
#2	3.839059	47.37723	.1752133	.0105372	12.20709	.4651036	.5702938
#3	3.850917	47.44189	.1757437	.0109877	12.31130	.4667597	.5678108

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.31103	.1407190	.0071274	.0163986	6.227672	7.586123	5.753221
Stddev	.04592	.0044899	.0004024	.0012988	.017183	.042728	.008107
%RSD	.4453467	3.190701	5.645276	7.920001	.2759122	.5632336	.1409096
#1	10.32132	.1371370	.0070749	.0149035	6.208324	7.550910	5.744160
#2	10.26084	.1392640	.0075534	.0170455	6.233536	7.573803	5.759789
#3	10.35093	.1457560	.0067538	.0172469	6.241154	7.633658	5.755713

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4566-01 Acquired: 10/28/2024 20:10:28 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	2.523251	.1098624	-.104468
Stddev	.009532	.0005002	.001932
%RSD	.3777832	.4552575	1.849146
#1	2.512293	.1094292	-.102503
#2	2.527827	.1097482	-.104534
#3	2.529632	.1104097	-.106365

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3160.199	70926.61	16522.36	2261.368	3965.266
Stddev	3.277	46.73	34.56	5.081	5.603
%RSD	.1036834	.0658833	.2091571	.2246663	.1412963
#1	3157.440	70894.72	16508.42	2264.960	3971.369
#2	3159.337	70980.25	16496.95	2263.590	3960.356
#3	3163.821	70904.87	16561.71	2255.556	3964.074

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-01 Acquired: 10/28/2024 20:14:32 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0743508	-.019249	2.613443	-.038955	.0019025	105.3532	.6738590
Stddev	.0008600	.003102	.001831	.000513	.0006010	.3033	.0010854
%RSD	1.156702	16.11669	.0700755	1.318004	31.58870	.2878766	.1610734
#1	.0752584	-.021976	2.611774	-.039061	.0012579	105.1479	.6727397
#2	.0742460	-.015874	2.613154	-.039407	.0020022	105.2101	.6739304
#3	.0735480	-.019898	2.615402	-.038397	.0024473	105.7015	.6749070

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110500	.0327822	45.72138	.4312814	.1329491	.9369563	227.9720
Stddev	.0000949	.0001797	.09258	.0004169	.0002715	.0006328	.8672
%RSD	.8588394	.5482133	.2024799	.0966647	.2042465	.0675361	.3804184
#1	.0111590	.0329696	45.61771	.4309839	.1332559	.9376144	227.0141
#2	.0110056	.0326114	45.75060	.4317579	.1328520	.9369024	228.7037
#3	.0109854	.0327655	45.79581	.4311024	.1327395	.9363522	228.1983

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.771468	58.77150	.2838676	.0099396	8.029071	.4100896	2.185487
Stddev	.012044	.30746	.0006017	.0000688	.018532	.0031911	.008203
%RSD	.2524225	.5231466	.2119467	.6919288	.2308105	.7781568	.3753249
#1	4.759151	58.41895	.2837809	.0099375	8.008864	.4068756	2.176260
#2	4.783220	58.91158	.2833140	.0098718	8.045273	.4101359	2.191954
#3	4.772033	58.98398	.2845079	.0100093	8.033076	.4132574	2.188246

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.88627	.0695095	.0043946	.0343274	8.968707	7.003538	9.518396
Stddev	.05320	.0016991	.0001592	.0004212	.012779	.018052	.033944
%RSD	.1978744	2.444431	3.623270	1.226929	.1424833	.2577544	.3566121
#1	26.82781	.0675816	.0043777	.0338419	8.954509	6.983011	9.556460
#2	26.89916	.0701583	.0042445	.0345952	8.972326	7.010663	9.507458
#3	26.93185	.0707886	.0045616	.0345451	8.979287	7.016940	9.491270

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-01 Acquired: 10/28/2024 20:14:32 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.4651277	.1895774	-.007658
Stddev	.0028868	.0002946	.000721
%RSD	.6206483	.1553953	9.415620
#1	.4681993	.1898890	-.006992
#2	.4647133	.1893034	-.008423
#3	.4624704	.1895397	-.007559

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3402.260	76351.04	17604.05	2407.054	4048.274
Stddev	7.325	48.40	34.09	10.290	8.275
%RSD	.2153037	.0633947	.1936634	.4274893	.2044077
#1	3397.067	76295.24	17565.18	2412.063	4042.420
#2	3399.074	76376.05	17628.89	2395.219	4044.660
#3	3410.639	76381.81	17618.07	2413.880	4057.741

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-05 Acquired: 10/28/2024 20:18:36 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0477893	-.007902	.4828480	-.025222	.0010987	65.78807	.3775506
Stddev	.0032526	.001038	.0021790	.001179	.0004883	.11793	.0002201
%RSD	6.806069	13.13341	.4512825	4.676362	44.44452	.1792583	.0583000
#1	.0473339	-.006978	.4810292	-.023891	.0013271	65.71543	.3777749
#2	.0447883	-.007703	.4822516	-.026137	.0014309	65.72463	.3775420
#3	.0512455	-.009025	.4852631	-.025638	.0005380	65.92414	.3773349

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102032	.0210423	17.60273	.2464013	.0920670	.1970948	170.3647
Stddev	.0000165	.0001353	.06182	.0003365	.0001043	.0003511	.4003
%RSD	.1618167	.6429528	.3511886	.1365825	.1132435	.1781523	.2349766
#1	.0101920	.0208940	17.53493	.2467763	.0919488	.1967193	169.9035
#2	.0101955	.0210738	17.61727	.2461255	.0921459	.1974149	170.6221
#3	.0102222	.0211590	17.65598	.2463020	.0921063	.1971503	170.5685

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.200529	30.01984	.1841879	.0076760	7.671952	.2615340	.9266563
Stddev	.011891	.08210	.0005648	.0002277	.023617	.0021382	.0029317
%RSD	.3715423	.2734794	.3066381	2.966025	.3078419	.8175671	.3163705
#1	3.188470	29.96669	.1841366	.0074364	7.671536	.2591267	.9298012
#2	3.200873	29.97843	.1836506	.0078896	7.695775	.2632129	.9239990
#3	3.212245	30.11440	.1847766	.0077019	7.648546	.2622623	.9261687

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.87200	.0472591	.0026189	.0178342	5.276388	7.017634	6.245342
Stddev	.02027	.0008015	.0003241	.0014031	.005991	.013879	.038827
%RSD	.1706990	1.695900	12.37434	7.867341	.1135361	.1977745	.6216881
#1	11.86570	.0463514	.0028650	.0175711	5.276486	7.003273	6.215996
#2	11.89467	.0475567	.0022517	.0165813	5.270348	7.030975	6.230661
#3	11.85564	.0478692	.0027399	.0193502	5.282328	7.018654	6.289368

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-05 Acquired: 10/28/2024 20:18:36 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.3603361	.0805461	-.087542
Stddev	.0027421	.0008957	.000437
%RSD	.7609949	1.112042	.4991528
#1	.3573568	.0798437	-.087042
#2	.3627543	.0815548	-.087853
#3	.3608970	.0802399	-.087730

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3346.998	74110.46	17295.15	2342.735	4212.574
Stddev	15.923	106.10	17.89	14.409	9.220
%RSD	.4757406	.1431590	.1034611	.6150389	.2188649
#1	3336.169	74000.50	17281.18	2326.156	4205.695
#2	3339.545	74118.67	17315.32	2352.233	4208.976
#3	3365.281	74212.21	17288.94	2349.815	4223.050

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV09 Acquired: 10/28/2024 20:22:42 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	5.195831	5.487139	5.037643	5.358564	5.271364	10.11432	9.832277
Stddev	.004562	.127140	.013187	.028273	.006553	.08852	.159132
%RSD	.0877978	2.317052	.2617670	.5276184	.1243107	.8752329	1.618463
#1	5.190990	5.502503	5.023773	5.364721	5.276220	10.17174	9.883586
#2	5.200050	5.605898	5.050020	5.383250	5.273960	10.15885	9.959424
#3	5.196452	5.353015	5.039136	5.327720	5.263910	10.01238	9.653820

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2488746	2.525560	24.35059	.9746176	2.519574	1.309443	4.933589
Stddev	.0031253	.003670	.27446	.0050719	.004584	.001443	.024936
%RSD	1.255789	.1453097	1.127111	.5203958	.1819259	.1101975	.5054268
#1	.2495520	2.521559	24.38456	.9788850	2.514321	1.309736	4.941600
#2	.2516056	2.528770	24.60649	.9759574	2.522759	1.307877	4.953535
#3	.2454660	2.526350	24.06074	.9690103	2.521643	1.310718	4.905633

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.334767	24.09722	2.527895	1.287073	25.45363	2.441910	2.621371
Stddev	.029652	.29186	.002431	.001270	.07892	.026157	.009714
%RSD	1.270014	1.211181	.0961619	.0986805	.3100415	1.071173	.3705730
#1	2.341160	24.13548	2.525109	1.285724	25.54473	2.455326	2.611537
#2	2.360701	24.36807	2.529583	1.287248	25.40635	2.458636	2.621614
#3	2.302440	23.78812	2.528994	1.288246	25.40981	2.411766	2.630961

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.23300	4.905938	5.377326	5.063403	4.813341	5.339040	5.321538
Stddev	.04532	.055856	.011459	.012502	.047729	.032223	.032978
%RSD	.1727785	1.138537	.2130969	.2469119	.9915885	.6035436	.6197093
#1	26.28475	4.931759	5.375787	5.060695	4.835782	5.302463	5.291136
#2	26.21389	4.944212	5.389476	5.077038	4.845714	5.351417	5.356597
#3	26.20036	4.841843	5.366714	5.052477	4.758528	5.363239	5.316881

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV09 Acquired: 10/28/2024 20:22:42 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	5.005777	4.812032	5.018973
Stddev	.013998	.052914	.036534
%RSD	.2796385	1.099629	.7279225
#1	5.003850	4.845746	5.047174
#2	5.020638	4.839305	5.032045
#3	4.992842	4.751045	4.977701

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2770.481	60640.79	12950.37	1944.609	4287.148
Stddev	2.133	43.94	125.18	10.975	6.258
%RSD	.0770021	.0724605	.9666416	.5643872	.1459731
#1	2771.496	60591.54	12895.97	1954.964	4294.208
#2	2771.918	60654.85	12861.58	1945.758	4284.956
#3	2768.030	60675.98	13093.54	1933.104	4282.282

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB09 Acquired: 10/28/2024 20:26:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.000926	-.001134	-.000747	.0003736	-.000482	.0051282	-.002224
Stddev	.000234	.000911	.000882	.0013663	.001210	.0068830	.000453
%RSD	25.22006	80.36878	118.0759	365.7418	251.2618	134.2197	20.36137
#1	-.000780	-.001453	-.001328	.0019275	.000390	.0006027	-.002647
#2	-.000802	-.001842	-.001180	-.000168	-.001863	.0017326	-.002279
#3	-.001195	-.000106	.000268	-.000639	.000028	.0130492	-.001746

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000097	.0000307	.0022979	-.000191	.0001370	-.001028	-.012932
Stddev	.0000309	.0000308	.0055207	.000229	.0001623	.000253	.002105
%RSD	319.0937	100.0590	240.2523	119.6096	118.4655	24.61361	16.27443
#1	-.000002	-.000003	.0006702	-.000399	-.000040	-.001103	-.013980
#2	.000045	.000039	-.002226	.000054	.000279	-.000746	-.010509
#3	-.000013	.000057	.008449	-.000228	.000172	-.001234	-.014306

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000112	.0011660	.0000373	.0004362	-.074966	-.000466	-.004663
Stddev	.000034	.0026934	.0000821	.0003819	.009029	.000481	.000324
%RSD	30.46312	230.9973	220.1736	87.55828	12.04460	103.3553	6.955063
#1	-.000099	-.000085	.0001297	.0004140	-.072367	-.000207	-.005028
#2	-.000087	-.000674	.0000097	.0008287	-.085009	-.001021	-.004407
#3	-.000151	.004257	-.000027	.0000658	-.067520	-.000169	-.004555

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163074	-.002835	.0001935	.0016560	.0005572	-.005938	-.001192
Stddev	.0164631	.000347	.0001627	.0002729	.0002862	.006045	.000156
%RSD	100.9545	12.23735	84.07259	16.48008	51.35832	101.8072	13.05583
#1	.0332420	-.002709	.0002337	.0015643	.0007947	-.001869	-.001173
#2	.0153200	-.002569	.0003324	.0014409	.0006373	-.012885	-.001047
#3	.0003603	-.003228	.0000145	.0019630	.0002395	-.003061	-.001356

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB09 Acquired: 10/28/2024 20:26:52 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0001749	-.000469	.0000218
Stddev	.0024242	.000308	.0000232
%RSD	1386.286	65.72288	106.1403
#1	.0029469	-.000242	.0000437
#2	-.001548	-.000345	-.000002
#3	-.000874	-.000819	.000024

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2957.163	62342.53	13760.26	2068.304	4984.016
Stddev	8.655	78.94	17.16	10.555	7.326
%RSD	.2926682	.1266177	.1246777	.5103194	.1469914
#1	2960.914	62251.42	13773.26	2056.226	4984.738
#2	2963.309	62385.65	13766.72	2072.925	4990.954
#3	2947.266	62390.52	13740.82	2075.760	4976.356

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-09 Acquired: 10/28/2024 20:31:12 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0710951	-.016441	.7451992	-.036547	.0017499	118.1817	.6150667
Stddev	.0014173	.001379	.0016289	.001141	.0007158	.2664	.0007777
%RSD	1.993502	8.387194	.2185786	3.121674	40.90376	.2254523	.1264469
#1	.0695382	-.015341	.7447972	-.037803	.0018784	117.9152	.6145800
#2	.0714367	-.017988	.7438090	-.035575	.0023928	118.1818	.6146564
#3	.0723104	-.015995	.7469914	-.036264	.0009786	118.4481	.6159636

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128814	.0299816	20.44675	.2881974	.1369326	.2185812	243.1023
Stddev	.0001106	.0001822	.08249	.0014996	.0004534	.0016244	.0965
%RSD	.8585400	.6076186	.4034157	.5203537	.3310969	.7431753	.0397031
#1	.0128090	.0297974	20.37215	.2864657	.1364329	.2184027	243.1061
#2	.0128264	.0299857	20.43278	.2890599	.1370473	.2170534	243.0039
#3	.0130087	.0301617	20.53533	.2890665	.1373176	.2202876	243.1968

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.751010	45.72249	.2065623	.0100678	7.243543	.4461675	1.427659
Stddev	.022924	.26792	.0006556	.0003672	.032395	.0015139	.003968
%RSD	.4825126	.5859689	.3173789	3.646875	.4472228	.3393084	.2779619
#1	4.731727	45.47261	.2060969	.0096703	7.271523	.4444332	1.424313
#2	4.744945	45.68947	.2062779	.0101389	7.251053	.4468447	1.432043
#3	4.776356	46.00539	.2073120	.0103943	7.208053	.4472245	1.426620

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.72671	.0698362	.0078284	.0399919	8.614873	6.315016	7.832778
Stddev	.03728	.0023611	.0003184	.0005386	.023898	.011428	.017787
%RSD	.2929133	3.380959	4.066617	1.346650	.2774070	.1809691	.2270818
#1	12.75521	.0724150	.0076113	.0394421	8.590993	6.314485	7.812687
#2	12.74040	.0693134	.0076800	.0400153	8.614835	6.326700	7.846516
#3	12.68453	.0677804	.0081938	.0405184	8.638789	6.303862	7.839130

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4567-09 Acquired: 10/28/2024 20:31:12 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	1.066821	.1297290	-.109608
Stddev	.006105	.0012813	.000212
%RSD	.5722950	.9877030	.1936096
#1	1.064805	.1293947	-.109843
#2	1.073679	.1311443	-.109550
#3	1.061978	.1286479	-.109431

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3524.758	76771.02	17989.46	2464.603	4142.349
Stddev	11.008	228.27	45.81	16.220	5.903
%RSD	.3122973	.2973379	.2546591	.6580986	.1425007
#1	3513.319	76557.30	18034.78	2448.742	4135.533
#2	3535.277	76744.27	17990.43	2463.907	4145.861
#3	3525.679	77011.48	17943.17	2481.159	4145.651

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-03 Acquired: 10/28/2024 20:35:16 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.5169486	.0055059	3.051613	-.027136	.0108272	100.9733
Stddev	.0007017	.0012454	.004454	.001701	.0019957	.1990
%RSD	.1357313	22.62018	.1459647	6.270192	18.43276	.1971255
#1	.5163970	.0067435	3.047473	-.026936	.0119418	101.0466
#2	.5177384	.0042528	3.051042	-.028929	.0120166	100.7481
#3	.5167105	.0055215	3.056326	-.025543	.0085231	101.1254

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.199233	.0079854	.0367221	30.18106	1.577080	.1100049
Stddev	.003765	.0000657	.0001727	.09203	.002432	.0003640
%RSD	.3139728	.8230190	.4704018	.3049288	.1542038	.3308773
#1	1.202616	.0079332	.0365315	30.08013	1.574282	.1097427
#2	1.199906	.0080592	.0368684	30.20270	1.578272	.1098515
#3	1.195177	.0079638	.0367664	30.26034	1.578686	.1104204

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.567797	239.0499	2.413960	45.60116	.5163026	.0307717
Stddev	.005855	.9781	.001452	.16555	.0008036	.0002653
%RSD	.1641058	.4091510	.0601513	.3630411	.1556512	.8622642
#1	3.561490	238.2882	2.415195	45.48377	.5153774	.0306377
#2	3.573060	240.1529	2.414325	45.52920	.5168265	.0306001
#3	3.568841	238.7085	2.412360	45.79051	.5167040	.0310773

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.09379	.2710584	4.437054	17.82818	.1347562	.0081916
Stddev	.24597	.0002855	.008224	.11242	.0030245	.0005298
%RSD	.6291797	.1053260	.1853435	.6305805	2.244396	6.467642
#1	39.05867	.2713871	4.440034	17.78985	.1345706	.0086479
#2	39.35543	.2709159	4.443373	17.95476	.1378693	.0083163
#3	38.86726	.2708721	4.427756	17.73994	.1318289	.0076105

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-03 Acquired: 10/28/2024 20:35:16 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	2.497355	2.779956	F 12.52033	F 16.99368	F 83.58905	.1625658
Stddev	.011380	.002530	.04451	.07334	.52107	.0015815
%RSD	.4556904	.0910212	.3555408	.4315887	.6233681	.9728675
#1	2.484363	2.782655	12.47524	16.91091	83.00027	.1624623
#2	2.505562	2.779576	12.56425	17.01958	83.99075	.1641966
#3	2.502138	2.777638	12.52149	17.05057	83.77614	.1610386

Elem	Sr4077
Units	ppm
Avg	-.003803
Stddev	.001242
%RSD	32.66877
#1	-.002517
#2	-.004996
#3	-.003895

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3087.965	69049.48	16148.22	2169.906	4121.054
Stddev	3.728	236.12	49.48	14.384	6.756
%RSD	.1207177	.3419520	.3064400	.6628995	.1639291
#1	3090.910	68982.97	16091.29	2163.357	4128.770
#2	3083.774	68853.75	16172.44	2159.961	4116.203
#3	3089.211	69311.71	16180.93	2186.399	4118.189

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-04 Acquired: 10/28/2024 20:39:20 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.8847635	.0152711	5.648079	-.022526	.0131286	101.8945
Stddev	.0066980	.0029013	.009438	.001174	.0015737	.2699
%RSD	.7570443	18.99886	.1670948	5.209802	11.98708	.2649242
#1	.8915761	.0186212	5.643340	-.023366	.0143313	101.5837
#2	.8845283	.0135790	5.658947	-.023026	.0113475	102.0292
#3	.8781862	.0136131	5.641950	-.021185	.0137070	102.0706

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.145045	.0079434	.0494436	38.40838	F 2.276156	.1101401
Stddev	.000722	.0000914	.0002247	.17311	.004728	.0001474
%RSD	.0336541	1.151059	.4544642	.4507133	.2077368	.1338700
#1	2.145685	.0078917	.0496814	38.23041	2.270885	.1103024
#2	2.144263	.0078895	.0494145	38.57618	2.277560	.1101035
#3	2.145189	.0080489	.0492349	38.41856	2.280024	.1100144

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.330950	235.9523	2.179692	45.78666	.6763611	.0535105
Stddev	.019590	.5996	.006756	.27897	.0009641	.0003216
%RSD	.3674825	.2541334	.3099641	.6092797	.1425481	.6010457
#1	5.350601	235.5640	2.173733	45.49939	.6758492	.0532028
#2	5.330829	236.6429	2.187032	46.05651	.6774732	.0538444
#3	5.311421	235.6500	2.178309	45.80407	.6757609	.0534844

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.26573	.2644918	7.108096	17.76162	.1297873	.0127577
Stddev	.17590	.0024197	.026216	.03692	.0013782	.0000746
%RSD	.3973823	.9148411	.3688141	.2078367	1.061855	.5847009
#1	44.46841	.2628809	7.096984	17.79939	.1312031	.0128241
#2	44.15295	.2672743	7.089267	17.72562	.1297084	.0127719
#3	44.17581	.2633202	7.138038	17.75984	.1284502	.0126770

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-04 Acquired: 10/28/2024 20:39:20 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.613844	2.761502	F 13.48794	F 20.09592	F 93.56364	.1655481
Stddev	.018330	.005564	.01341	.11275	.60370	.0007283
%RSD	.3972856	.2014920	.0994219	.5610818	.6452287	.4399076
#1	4.624954	2.756960	13.47988	20.15642	94.13837	.1655177
#2	4.623890	2.767709	13.50342	20.16550	93.61792	.1648355
#3	4.592687	2.759837	13.48051	19.96582	92.93463	.1662911

Elem	Sr4077
Units	ppm
Avg	.1200643
Stddev	.0005565
%RSD	.4635196
#1	.1203455
#2	.1194233
#3	.1204242

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3018.108	68083.64	15947.79	2111.515	4079.045
Stddev	17.132	154.68	37.33	10.233	14.122
%RSD	.5676328	.2271981	.2341053	.4846395	.3462116
#1	2998.712	67939.52	15969.28	2099.761	4063.431
#2	3024.439	68064.34	15904.67	2118.439	4082.781
#3	3031.173	68247.08	15969.41	2116.345	4090.924

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-05 Acquired: 10/28/2024 20:43:21 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0218734	.0039092	.1161422	-.032017	.0030381	63.23619	.3241126
Stddev	.0020817	.0024761	.0018099	.001399	.0014261	1.90273	.0104386
%RSD	9.517259	63.34041	1.558360	4.370427	46.93950	3.008924	3.220673
#1	.0216264	.0013393	.1159711	-.033191	.0044489	61.04209	.3120606
#2	.0240676	.0062794	.1180316	-.030468	.0030681	64.43246	.3302977
#3	.0199261	.0041089	.1144240	-.032391	.0015972	64.23401	.3299797

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062243	.0167137	85.38655	.1793193	.0855563	.1958241	198.6943
Stddev	.0001464	.0005057	2.70561	.0004205	.0005433	.0032712	1.6439
%RSD	2.352425	3.025657	3.168663	.2344879	.6349822	1.670480	.8273489
#1	.0060563	.0172015	82.26548	.1794800	.0859786	.1992877	196.7964
#2	.0063250	.0167477	87.06763	.1788422	.0857469	.1953972	199.6131
#3	.0062916	.0161918	86.82654	.1796358	.0849434	.1927872	199.6733

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.949209	44.50064	.1852070	.0079980	14.82117	.1774715	.5215000
Stddev	.099133	1.38594	.0010866	.0002523	.09298	.0069572	.0038813
%RSD	3.361346	3.114424	.5866787	3.154007	.6273684	3.920180	.7442574
#1	2.834826	42.90124	.1855568	.0077128	14.71408	.1694451	.5235233
#2	3.010253	45.34805	.1860756	.0080895	14.86811	.1817769	.5170251
#3	3.002547	45.25262	.1839886	.0081918	14.88134	.1811925	.5239516

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.03182	.0878621	.0057888	.0374965	1.969205	9.658497	5.384927
Stddev	.09602	.0012373	.0002572	.0008421	.061678	.052169	.005032
%RSD	.6843230	1.408271	4.442713	2.245671	3.132132	.5401382	.0934381
#1	13.92217	.0892864	.0055273	.0374104	1.898054	9.598645	5.381284
#2	14.07244	.0872479	.0057978	.0383783	2.007476	9.694330	5.390668
#3	14.10086	.0870521	.0060414	.0367009	2.002087	9.682518	5.382828

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-05 Acquired: 10/28/2024 20:43:21 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	8.882602	.1265943	-.038901
Stddev	.024328	.0059750	.003541
%RSD	.2738888	4.719798	9.101975
#1	8.866947	.1197007	-.042980
#2	8.910630	.1297974	-.036622
#3	8.870229	.1302848	-.037100

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3009.732	66726.51	15318.04	2108.660	4166.447
Stddev	20.611	363.99	320.70	17.739	29.735
%RSD	.6848045	.5454906	2.093631	.8412329	.7136661
#1	2990.412	66306.26	15686.17	2090.267	4139.617
#2	3007.356	66942.16	15099.17	2125.662	4161.308
#3	3031.428	66931.10	15168.77	2110.050	4198.416

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-07 Acquired: 10/28/2024 20:47:26 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0376173	.0026960	.1909074	-.032370	.0018030	75.98260
Stddev	.0024488	.0031995	.0013934	.001796	.0008851	3.73369
%RSD	6.509776	118.6748	.7298793	5.548225	49.09186	4.913871
#1	.0395202	-.000239	.1908173	-.034346	.0007812	71.67249
#2	.0384771	.002220	.1923436	-.031927	.0022918	78.22510
#3	.0348545	.006107	.1895612	-.030837	.0023358	78.05021

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4542772	.0070335	.0197930	82.34886	.2525600	.0985915
Stddev	.0193995	.0001932	.0003246	3.82713	.0004329	.0004562
%RSD	4.270400	2.747332	1.639750	4.647463	.1713921	.4627237
#1	.4318784	.0068114	.0201540	77.93756	.2521648	.0991021
#2	.4652342	.0071629	.0196995	84.32590	.2530226	.0984483
#3	.4657190	.0071262	.0195254	84.78313	.2524927	.0982241

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2489478	211.1081	2.454344	44.04704	.2029681	.0081836
Stddev	.0029659	3.0429	.108820	2.15452	.0002637	.0005262
%RSD	1.191392	1.441391	4.433765	4.891405	.1299413	6.429947
#1	.2523689	207.6870	2.329272	41.56017	.2027266	.0075953
#2	.2473752	212.1252	2.506413	45.23088	.2032495	.0086094
#3	.2470994	213.5122	2.527346	45.35007	.2029281	.0083460

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.71977	.2190208	.5544573	16.30185	.0979211	.0077803
Stddev	.16128	.0100001	.0006036	.12888	.0023921	.0002476
%RSD	.9645957	4.565833	.1088691	.7906127	2.442852	3.183095
#1	16.53358	.2076478	.5550451	16.15303	.1002879	.0077888
#2	16.81618	.2229772	.5538390	16.37670	.0979710	.0075284
#3	16.80954	.2264374	.5544880	16.37582	.0955045	.0080235

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4578-07 Acquired: 10/28/2024 20:47:26 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0847496	2.382280	F 11.17888	6.808222	F 21.10305	.1326921
Stddev	.0009010	.112475	.26865	.009805	.05085	.0053462
%RSD	1.063182	4.721325	2.403211	.1440145	.2409710	4.029022
#1	.0857876	2.252437	10.86937	6.811040	21.10454	.1265243
#2	.0841691	2.444675	11.35171	6.797317	21.15314	.1360002
#3	.0842920	2.449727	11.31557	6.816310	21.05146	.1355519

Elem	Sr4077
Units	ppm
Avg	-.032097
Stddev	.004823
%RSD	15.02625
#1	-.037622
#2	-.028727
#3	-.029943

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3138.787	68758.22	16177.57	2213.150	4141.165
Stddev	4.093	56.59	526.27	1.475	5.743
%RSD	.1304018	.0823051	3.253091	.0666437	.1386731
#1	3136.201	68823.53	16785.08	2212.635	4135.888
#2	3143.506	68723.62	15886.82	2212.001	4147.281
#3	3136.653	68727.52	15860.83	2214.813	4140.326

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-09DLX5 Acquired: 10/28/2024 20:59:53 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0195594	-.009708	.2080150	-.011804	.0016349	42.23264
Stddev	.0030448	.001150	.0020053	.000594	.0011079	1.11103
%RSD	15.56676	11.84849	.9640283	5.032657	67.76611	2.630743
#1	.0161335	-.008571	.2090375	-.012479	.0027042	43.51147
#2	.0219562	-.010871	.2093029	-.011363	.0017086	41.68172
#3	.0205886	-.009680	.2057045	-.011569	.0004920	41.50472

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3721938	.0018618	.0049314	463.3426	.5673808	.0250731
Stddev	.0106222	.0000371	.0000473	11.4607	.0024754	.0001452
%RSD	2.853930	1.991351	.9591286	2.473489	.4362896	.5792684
#1	.3844240	.0019045	.0048971	476.5682	.5684812	.0252317
#2	.3668825	.0018432	.0049116	457.1311	.5645459	.0250410
#3	.3652749	.0018378	.0049853	456.3286	.5691152	.0249466

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.191473	52.39582	1.599973	28.39210	.1681884	.0022823
Stddev	.002395	.44354	.043691	.68694	.0002509	.0001127
%RSD	.2009754	.8465197	2.730713	2.419486	.1491634	4.938726
#1	1.193458	52.90166	1.649894	29.17529	.1684781	.0023931
#2	1.192147	52.21230	1.581320	28.10934	.1680485	.0022862
#3	1.188813	52.07348	1.568705	27.89167	.1680388	.0021678

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.270063	.2298351	1.075600	10.86774	.0335314	.0612111
Stddev	.013836	.0065269	.007276	.06548	.0000365	.0003957
%RSD	1.089388	2.839816	.6765014	.6025530	.1088908	.6464772
#1	1.283463	.2373627	1.083961	10.94305	.0335359	.0616645
#2	1.255829	.2257519	1.070701	10.83595	.0335655	.0609348
#3	1.270898	.2263908	1.072137	10.82422	.0334929	.0610341

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-09DLX5 Acquired: 10/28/2024 20:59:53 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0115585	2.983061	F 16.32270	2.033041	F 13.67233	.1480098
Stddev	.0016583	.080529	.16866	.006480	.09174	.0038467
%RSD	14.34721	2.699541	1.033259	.3187157	.6709615	2.598974
#1	.0131121	3.075672	16.51452	2.031403	13.76830	.1522718
#2	.0117510	2.943994	16.25590	2.040183	13.66317	.1469621
#3	.0098123	2.929518	16.19768	2.027538	13.58551	.1447953

Elem	Sr4077
Units	ppm
Avg	.2604497
Stddev	.0078749
%RSD	3.023564
#1	.2695354
#2	.2562253
#3	.2555885

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2683.088	58327.97	13779.14	1865.722	3859.617
Stddev	11.621	255.40	318.88	12.554	15.892
%RSD	.4331389	.4378671	2.314232	.6728968	.4117431
#1	2675.479	58041.89	13414.70	1852.481	3848.653
#2	2677.319	58408.97	13915.79	1867.233	3852.356
#3	2696.465	58533.04	14006.92	1877.453	3877.842

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-11DLX5 Acquired: 10/28/2024 21:04:11 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0178361	-.008539	.1939595	-.012520	.0027786	37.26865
Stddev	.0010812	.002521	.0018876	.000582	.0008298	.46051
%RSD	6.062020	29.52226	.9731800	4.650313	29.86272	1.235659
#1	.0166890	-.010654	.1948658	-.012249	.0018351	37.79910
#2	.0188364	-.009213	.1952230	-.012122	.0031059	36.97127
#3	.0179829	-.005749	.1917897	-.013188	.0033948	37.03557

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3170011	.0017296	.0044172	424.0957	.4717877	.0222959
Stddev	.0035721	.0000347	.0001190	2.6370	.0071617	.0000821
%RSD	1.126838	2.007423	2.693926	.6218005	1.517988	.3682634
#1	.3210612	.0016944	.0045396	426.2405	.4642364	.0223255
#2	.3156006	.0017306	.0043019	421.1514	.4784828	.0223591
#3	.3143414	.0017638	.0044101	424.8952	.4726439	.0222031

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.393003	52.56849	1.455334	24.20258	.1414775	.0031577
Stddev	.008911	.59019	.011305	.19451	.0010644	.0001676
%RSD	.6396905	1.122702	.7767768	.8036576	.7523346	5.306043
#1	1.402328	52.18321	1.468379	24.42117	.1427033	.0032956
#2	1.384574	53.24795	1.449239	24.04861	.1409421	.0029712
#3	1.392107	52.27432	1.448385	24.13795	.1407871	.0032063

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.026768	.2087333	1.189838	7.185076	.0329805	.0546223
Stddev	.012314	.0014237	.011302	.068340	.0014469	.0002202
%RSD	1.199327	.6820713	.9499018	.9511364	4.387192	.4030332
#1	1.016761	.2103360	1.177914	7.155973	.0314537	.0547652
#2	1.040520	.2082489	1.200394	7.263150	.0343314	.0547330
#3	1.023024	.2076149	1.191206	7.136106	.0331565	.0543688

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: P4574-11DLX5 Acquired: 10/28/2024 21:04:11 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0104858	2.537776	F 20.63958	1.287750	F 12.93230	.1289995
Stddev	.0008434	.030364	.17168	.008335	.10507	.0035911
%RSD	8.043592	1.196489	.8317912	.6472860	.8124748	2.783790
#1	.0111088	2.572810	20.51489	1.295543	13.05351	.1328573
#2	.0095260	2.521478	20.83539	1.278961	12.86721	.1257539
#3	.0108226	2.519041	20.56846	1.288746	12.87617	.1283873

Elem	Sr4077
Units	ppm
Avg	.2492526
Stddev	.0042925
%RSD	1.722155
#1	.2542056
#2	.2469392
#3	.2466131

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2694.120	56850.43	13647.51	1868.798	3916.935
Stddev	19.609	662.48	96.85	12.585	23.136
%RSD	.7278625	1.165310	.7096834	.6734363	.5906656
#1	2673.192	57419.52	13537.05	1879.292	3890.950
#2	2712.070	56123.18	13717.87	1854.845	3935.299
#3	2697.100	57008.59	13687.63	1872.258	3924.557

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164415BL Acquired: 10/28/2024 21:08:29 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.001505	-.001892	-.000055	-.000272	-.000617	.0063309	-.002996
Stddev	.001733	.000373	.000146	.001218	.000492	.0022318	.000109
%RSD	115.1031	19.69877	264.7271	448.4678	79.72639	35.25245	3.646213
#1	-.002893	-.002322	-.000209	.000986	-.000547	.0061142	-.003026
#2	-.002061	-.001697	-.000040	-.000356	-.001139	.0042153	-.003088
#3	.000437	-.001658	.000083	-.001446	-.000164	.0086631	-.002875

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000399	-.000023	.0070921	-.000622	.0000892	-.001166	-.010768
Stddev	.0000224	.000028	.0070014	.000373	.0000673	.000102	.002346
%RSD	55.99034	123.4343	98.72056	59.99294	75.48656	8.749852	21.78871
#1	.0000358	-.000004	.0085283	-.000641	.0000172	-.001271	-.008517
#2	.0000200	-.000010	.0132640	-.000986	.0000999	-.001067	-.010587
#3	.0000641	-.000055	-.000516	-.000240	.0001505	-.001160	-.013199

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000224	.0033222	.0001263	.0004282	-.098357	-.000644	-.004739
Stddev	.000069	.0073825	.0001473	.0001285	.006223	.001697	.000210
%RSD	30.71283	222.2203	116.6177	30.00214	6.326535	263.5521	4.435214
#1	-.000295	-.002021	.0001919	.0004393	-.104580	-.000251	-.004528
#2	-.000220	.000241	-.000042	.0002946	-.098357	.000822	-.004742
#3	-.000158	.011746	.000229	.0005508	-.092134	-.002503	-.004948

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001483	-.006730	-.000117	-.001439	.0007305	-.001978	-.003115
Stddev	.011261	.000145	.000203	.000323	.0004310	.004125	.001994
%RSD	759.1217	2.154683	173.2917	22.43088	59.00408	208.5444	64.01812
#1	-.014134	-.006896	-.000347	-.001802	.0007493	-.003185	-.003898
#2	.002236	-.006666	-.000044	-.001187	.0002904	.002616	-.004599
#3	.007447	-.006627	.000039	-.001326	.0011519	-.005366	-.000848

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164415BL Acquired: 10/28/2024 21:08:29 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0011627	-.001836	-.000014
Stddev	.0006009	.000033	.000013
%RSD	51.68206	1.781347	89.81472
#1	.0009277	-.001873	-.000025
#2	.0007148	-.001810	-.000018
#3	.0018456	-.001826	-.000000

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2942.424	64205.37	13778.19	2085.065	4965.242
Stddev	5.156	132.90	46.15	16.076	12.267
%RSD	.1752336	.2069900	.3349413	.7710310	.2470653
#1	2937.001	64211.66	13745.24	2088.385	4952.658
#2	2947.264	64069.43	13830.93	2067.587	4977.166
#3	2943.008	64335.00	13758.39	2099.222	4965.901

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164415BS Acquired: 10/28/2024 21:12:49 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.7654839	2.010655	.9422752	1.983799	.8190137	1.970156
Stddev	.0011037	.010758	.0006701	.000176	.0022057	.014978
%RSD	.1441827	.5350721	.0711180	.0088907	.2693104	.7602519
#1	.7654288	2.012543	.9415599	1.983611	.8214293	1.967934
#2	.7666141	2.020344	.9428885	1.983823	.8171069	1.956413
#3	.7644088	1.999077	.9423771	1.983961	.8185048	1.986121

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1900490	.1962182	.1857477	1.000872	.3982695	.1996142
Stddev	.0010895	.0008226	.0001898	.008265	.0021503	.0004134
%RSD	.5732971	.4192540	.1021860	.8258174	.5399218	.2070992
#1	.1905185	.1964677	.1857251	1.008247	.3960911	.1996191
#2	.1888034	.1952997	.1859478	.991938	.3983267	.2000252
#3	.1908250	.1968873	.1855702	1.002430	.4003907	.1991984

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3230659	2.960086	.1867397	1.861682	.5019837	.0786442
Stddev	.0004705	.009985	.0008550	.024675	.0005433	.0002167
%RSD	.1456484	.3373361	.4578517	1.325396	.1082393	.2755897
#1	.3233418	2.948876	.1862560	1.876177	.5021843	.0785003
#2	.3225226	2.963352	.1862363	1.833192	.5013685	.0788934
#3	.3233332	2.968029	.1877269	1.875678	.5023981	.0785387

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.870003	.2856591	.2138848	10.34570	.2790266	.4344742
Stddev	.008415	.0017824	.0001284	.01270	.0017229	.0005507
%RSD	.2932170	.6239648	.0600215	.1227883	.6174708	.1267522
#1	2.863591	.2868741	.2137997	10.36035	.2806352	.4342900
#2	2.879532	.2836130	.2138223	10.33776	.2772085	.4340393
#3	2.866885	.2864904	.2140325	10.33898	.2792361	.4350934

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: PB164415BS Acquired: 10/28/2024 21:12:49 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.6821464	.1874332	F .6963158	5.847240	F -.009055	.1804694
Stddev	.0021330	.0011565	.0069146	.017112	.004400	.0010082
%RSD	.3126925	.6170107	.9930298	.2926584	48.59427	.5586441
#1	.6825748	.1885244	.6912915	5.865582	-.008025	.1809447
#2	.6840328	.1862209	.6934541	5.831703	-.005261	.1793114
#3	.6798317	.1875543	.7042019	5.844435	-.013879	.1811520

Elem	Sr4077
Units	ppm
Avg	.1974786
Stddev	.0008043
%RSD	.4073016
#1	.1980943
#2	.1965686
#3	.1977729

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2896.173	63228.36	13627.68	2049.871	4748.848
Stddev	1.623	91.94	78.17	4.377	4.079
%RSD	.0560356	.1454133	.5736133	.2135275	.0858978
#1	2894.751	63333.11	13574.17	2044.942	4749.189
#2	2897.941	63190.94	13717.39	2053.305	4744.610
#3	2895.826	63161.02	13591.49	2051.365	4752.747

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV10 Acquired: 10/28/2024 21:21:37 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	5.176071	5.327288	4.981549	5.328918	5.274814	9.999214	9.836073
Stddev	.011911	.089943	.011019	.019608	.007457	.051692	.073080
%RSD	.2301260	1.688340	.2211899	.3679584	.1413722	.5169608	.7429834
#1	5.162414	5.224456	4.984726	5.306297	5.266203	9.939921	9.826993
#2	5.184308	5.366102	4.969290	5.339400	5.279185	10.03480	9.913269
#3	5.181493	5.391307	4.990629	5.341058	5.279054	10.02292	9.767957

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2422611	2.496491	23.86395	.9666611	2.498848	1.302085	4.864932
Stddev	.0007150	.006564	.18013	.0027681	.005300	.000934	.012809
%RSD	.2951577	.2629242	.7548093	.2863570	.2120847	.0717341	.2633001
#1	.2416620	2.497640	23.65729	.9663268	2.500620	1.301196	4.852511
#2	.2430527	2.489429	23.98769	.9640753	2.492890	1.303058	4.864189
#3	.2420686	2.502405	23.94685	.9695812	2.503035	1.302001	4.878097

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.305000	23.61554	2.504897	1.268643	25.67050	2.417679	2.598467
Stddev	.016721	.22475	.004576	.003744	.01546	.016241	.008968
%RSD	.7254294	.9516958	.1826973	.2951077	.0602377	.6717437	.3451194
#1	2.287083	23.35671	2.505420	1.270935	25.68728	2.398931	2.592345
#2	2.320189	23.72859	2.500081	1.264323	25.65683	2.427413	2.594295
#3	2.307729	23.76132	2.509189	1.270671	25.66739	2.426694	2.608760

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.33954	4.812074	5.362867	4.999235	4.777671	5.325009	5.196859
Stddev	.05557	.013584	.012990	.012989	.030883	.080926	.024870
%RSD	.2109574	.2822968	.2422152	.2598148	.6463972	1.519726	.4785674
#1	26.36894	4.798318	5.349267	4.990572	4.751189	5.245047	5.178795
#2	26.27545	4.825480	5.364189	4.992964	4.811595	5.323116	5.186557
#3	26.37424	4.812424	5.375145	5.014170	4.770230	5.406865	5.225225

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV10 Acquired: 10/28/2024 21:21:37 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	4.910519	4.858831	4.967428
Stddev	.032669	.037223	.016957
%RSD	.6652916	.7660966	.3413632
#1	4.877098	4.855181	4.948914
#2	4.912079	4.897745	4.982204
#3	4.942380	4.823568	4.971166

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2760.346	61246.19	13118.94	1953.154	4290.662
Stddev	5.388	212.60	54.64	3.719	4.420
%RSD	.1952069	.3471238	.4165339	.1904237	.1030182
#1	2761.191	61224.48	13175.51	1953.873	4286.348
#2	2754.585	61468.81	13066.45	1956.462	4290.456
#3	2765.262	61045.28	13114.85	1949.128	4295.181

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB10 Acquired: 10/28/2024 21:25:48 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0007120	-.000992	.0004308	-.000416	.0007289	.0070118	-.003527
Stddev	.0029430	.002118	.0002653	.001497	.0005528	.0018541	.000447
%RSD	413.3528	213.5363	61.58718	360.1296	75.83620	26.44315	12.66878
#1	-.001570	-.003425	.0001398	-.001618	.0002339	.0048794	-.003681
#2	.004034	.000439	.0004932	.001261	.0013254	.0079122	-.003877
#3	-.000328	.000011	.0006593	-.000891	.0006274	.0082438	-.003024

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000448	.0000618	-.000711	-.000425	.0000604	-.001246	-.014850
Stddev	.0000090	.0000280	.002572	.000200	.0000621	.000207	.001710
%RSD	20.00832	45.28610	361.9385	47.04594	102.8216	16.58440	11.51270
#1	.0000413	.0000934	-.003017	-.000214	.0001295	-.001306	-.012912
#2	.0000381	.0000522	.002063	-.000612	.0000422	-.001016	-.015494
#3	.0000550	.0000399	-.001178	-.000448	.0000094	-.001416	-.016144

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000106	.0029552	.0001963	.0007397	-.096129	-.000072	-.004773
Stddev	.000149	.0069566	.0002842	.0001796	.002969	.000608	.000223
%RSD	140.7340	235.4037	144.7726	24.28398	3.088955	842.5792	4.673567
#1	-.000271	.0052263	.0005220	.0007767	-.095413	.000390	-.004549
#2	.000017	.0084924	.0000688	.0008980	-.099391	.000155	-.004776
#3	-.000064	-.004853	-.000002	.0005445	-.093584	-.000761	-.004995

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089117	-.000849	.0002740	.0016410	.0006360	-.009859	-.000556
Stddev	.0241394	.000319	.0001193	.0004369	.0003015	.003595	.001987
%RSD	270.8721	37.59899	43.55069	26.62165	47.40099	36.47015	357.2982
#1	-.005179	-.000564	.0003689	.0015973	.0006236	-.010179	-.001374
#2	.036785	-.001194	.0003129	.0020981	.0009435	-.006113	.001709
#3	-.004871	-.000788	.0001400	.0012276	.0003409	-.013283	-.002004

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB10 Acquired: 10/28/2024 21:25:48 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.002768	-.001422	.0000459
Stddev	.002953	.000992	.0000171
%RSD	106.6817	69.74043	37.19523
#1	-.002829	-.000293	.0000649
#2	.000215	-.001824	.0000409
#3	-.005691	-.002150	.0000319

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2981.116	65535.57	13816.68	2115.367	5034.564
Stddev	8.174	8.12	17.56	3.276	12.216
%RSD	.2742040	.0123888	.1271275	.1548461	.2426525
#1	2971.696	65544.75	13801.61	2118.559	5020.480
#2	2986.343	65529.32	13812.46	2112.014	5040.916
#3	2985.309	65532.64	13835.97	2115.530	5042.295

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: LR1 Acquired: 10/28/2024 21:29:46 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0093370	.0292932	.0474201	-.199053	.0018948	2141.863	.0144257
Stddev	.0081780	.0053929	.0005772	.001594	.0037145	5.948	.0004057
%RSD	87.58663	18.41008	1.217292	.8009605	196.0390	.2776985	2.812224
#1	.0022173	.0233097	.0471236	-.200165	-.000518	2146.705	.0144223
#2	.0182692	.0337790	.0470514	-.197226	.006172	2143.661	.0148330
#3	.0075247	.0307908	.0480854	-.199767	.000030	2135.224	.0140217

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088515	.1480712	1809.129	.0053276	.0436920	.1295618	1006.551
Stddev	.0001464	.0007240	13.839	.0008624	.0003014	.0071305	11.271
%RSD	1.653563	.4889323	.7649346	16.18675	.6899418	5.503570	1.119813
#1	.0086830	.1482145	1824.672	.0044913	.0435824	.1232146	1016.797
#2	.0089253	.1472864	1804.573	.0052777	.0434607	.1281935	1008.377
#3	.0089464	.1487129	1798.143	.0062138	.0440329	.1372774	994.477

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.066641	1659.451	.0251001	.0099569	2142.024	.0412773	.2504221
Stddev	.001057	19.609	.0004951	.0023883	20.362	.0021043	.0010462
%RSD	1.585391	1.181662	1.972520	23.98585	.9506052	5.097907	.4177546
#1	-.067745	1681.805	.0248651	.0113256	2134.592	.0426059	.2516184
#2	-.065640	1651.394	.0247662	.0113460	2126.422	.0423748	.2499695
#3	-.066537	1645.154	.0256689	.0071992	2165.059	.0388512	.2496785

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1350.774	.0505600	-.004737	.0167773	-.039864	.1556174	.0928049
Stddev	32.860	.0133654	.000902	.0040035	.000253	.0153308	.0054728
%RSD	2.432716	26.43478	19.04074	23.86271	.6345148	9.851571	5.897145
#1	1386.767	.0611873	-.005340	.0157814	-.039854	.1730823	.0865565
#2	1343.179	.0549381	-.003700	.0211847	-.040122	.1493881	.0951105
#3	1322.376	.0355546	-.005172	.0133657	-.039617	.1443818	.0967477

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: LR1 Acquired: 10/28/2024 21:29:46 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.186019	.5530118	-.994125
Stddev	.006162	.0033323	.011281
%RSD	3.312809	.6025808	1.134751
#1	-.184608	.5517520	-1.00436
#2	-.192765	.5567904	-.99599
#3	-.180685	.5504930	-.98203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1702.532	39457.98	10646.04	1217.520	2339.800
Stddev	1.632	43.49	24.93	4.157	3.277
%RSD	.0958656	.1102064	.2341394	.3414158	.1400639
#1	1700.723	39432.47	10633.95	1215.041	2336.185
#2	1702.976	39508.19	10674.71	1215.199	2340.638
#3	1703.895	39433.29	10629.47	1222.319	2342.577

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: LR2 Acquired: 10/28/2024 21:34:43 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	.0142423	-.035808	228.4847	.0039144	-.004139	.1071243	^F *****
Stddev	.0006641	.001695	.7405	.0019315	.000626	.0097649	-----
%RSD	4.663120	4.734345	.3241048	49.34436	15.12488	9.115462	-----
#1	.0141322	-.037582	228.6617	.0052862	-.003717	.1014762	^ -----
#2	.0149546	-.034204	227.6717	.0017055	-.004858	.1014969	^ -----
#3	.0136401	-.035638	229.1206	.0047515	-.003841	.1183998	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002087	-.007009	.2398287	.0137363	-.038391	237.2837	.0138815
Stddev	.000036	.000016	.0090328	.0002738	.000710	2.6032	.0038057
%RSD	1.730919	.2337028	3.766338	1.993475	1.848602	1.097069	27.41531
#1	-.002128	-.007019	.2309702	.0139401	-.037918	240.0441	.0138778
#2	-.002065	-.006990	.2394896	.0134251	-.039207	234.8731	.0100777
#3	-.002066	-.007019	.2490262	.0138438	-.038048	236.9340	.0176890

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	46.09712	-.008461	46.76274	.0036225	.5656002	-.015567	37.32735
Stddev	.24853	.009035	.10253	.0003131	.0609362	.000240	.27973
%RSD	.5391363	106.7842	.2192520	8.642995	10.77373	1.539925	.7494080
#1	46.13762	-.015209	46.75520	.0036830	.6297786	-.015412	37.08772
#2	46.32291	-.011978	46.66419	.0039009	.5584925	-.015843	37.63474
#3	45.83083	.001804	46.86883	.0032836	.5085295	-.015446	37.25958

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9266823	-.004402	-.006318	-.006037	-.042684	-.014858	1.212141
Stddev	.0855129	.000849	.000217	.000531	.000660	.004206	.009131
%RSD	9.227855	19.28368	3.438978	8.796519	1.546704	28.30392	.7533172
#1	1.022004	-.003756	-.006078	-.005836	-.043442	-.018440	1.221673
#2	.901331	-.005364	-.006378	-.006639	-.042373	-.015907	1.203471
#3	.856711	-.004086	-.006500	-.005635	-.042236	-.010228	1.211278

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: LR2 Acquired: 10/28/2024 21:34:43 Type: Unk
Method: NON EPA-6010-200.7(v2451) 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	-.059672	-.001478	.0020284
Stddev	.005233	.000268	.0000226
%RSD	8.768829	18.15065	1.116362
#1	-.063255	-.001273	.0020072
#2	-.062095	-.001782	.0020523
#3	-.053668	-.001379	.0020256

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2514.944	61141.56	13900.52	1856.869	4475.192
Stddev	6.060	111.73	12.21	22.081	6.530
%RSD	.2409550	.1827421	.0878426	1.189148	.1459199
#1	2509.440	61107.86	13895.11	1854.531	4472.577
#2	2521.438	61050.56	13891.94	1836.050	4482.624
#3	2513.954	61266.26	13914.50	1880.026	4470.374

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV11 Acquired: 10/28/2024 21:38:50 Type: Unk
Method: NON EPA-6010-200.7(v2451) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.221699	5.169944	4.966999	5.378562	5.339311	10.06635	10.06879
Stddev	.002224	.039639	.007759	.003799	.008523	.02504	.12795
%RSD	.0425947	.7667131	.1562208	.0706279	.1596294	.2487602	1.270767
#1	5.224267	5.133201	4.975933	5.381940	5.349152	10.07738	10.16629
#2	5.220455	5.164679	4.961944	5.374450	5.334478	10.03768	10.11619
#3	5.220376	5.211952	4.963120	5.379296	5.334303	10.08397	9.92391

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2443472	2.484963	23.83784	.9695926	2.490168	1.323020	4.974102
Stddev	.0015256	.001544	.06803	.0028722	.002512	.002711	.023392
%RSD	.6243612	.0621534	.2853667	.2962258	.1008663	.2048822	.4702681
#1	.2460655	2.486736	23.85183	.9664621	2.493068	1.323380	4.947092
#2	.2431518	2.483904	23.76390	.9702095	2.488660	1.325532	4.987617
#3	.2438244	2.484250	23.89778	.9721062	2.488777	1.320147	4.987597

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.329483	23.62257	2.499170	1.288292	25.93015	2.440026	2.541016
Stddev	.011109	.09793	.001827	.001582	.06770	.001497	.002913
%RSD	.4769013	.4145629	.0730883	.1227877	.2610938	.0613539	.1146576
#1	2.331908	23.53928	2.501238	1.290037	25.96657	2.438341	2.542737
#2	2.317361	23.59798	2.498494	1.287889	25.97184	2.441204	2.542658
#3	2.339179	23.73045	2.497777	1.286951	25.85203	2.440533	2.537652

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.28044	4.864657	5.384411	4.967538	4.813746	5.333354	5.148177
Stddev	.06994	.021955	.003309	.005602	.008846	.067475	.013330
%RSD	.2563620	.4513183	.0614538	.1127631	.1837723	1.265144	.2589198
#1	27.20126	4.884834	5.382117	4.964100	4.822684	5.256530	5.148362
#2	27.33379	4.841276	5.388204	4.964512	4.804994	5.360529	5.161413
#3	27.30628	4.867861	5.382912	4.974002	4.813561	5.383004	5.134756

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCV11 Acquired: 10/28/2024 21:38:50 Type: Unk
Method: NON EPA-6010-200.7(v2451) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV11 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.885847	4.973001	5.051238
Stddev	.007492	.030381	.039026
%RSD	.1533362	.6109123	.7725979
#1	4.890500	5.007760	5.089520
#2	4.877205	4.959725	5.011508
#3	4.889836	4.951518	5.052685

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2714.045	59832.05	12959.14	1900.825	4250.869
Stddev	4.178	147.95	44.88	7.632	3.754
%RSD	.1539441	.2472730	.3463525	.4015146	.0883037
#1	2714.727	59942.78	12908.30	1898.360	4251.728
#2	2709.568	59664.03	12993.28	1894.730	4246.760
#3	2717.840	59889.35	12975.86	1909.385	4254.119

Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB11 Acquired: 10/28/2024 21:43:02 Type: Unk
Method: NON EPA-6010-200.7(v2451) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000307	-.001330	.0005047	-.000674	-.001274	.0090916	-.004909
Stddev	.000874	.000547	.0002786	.000627	.000606	.0024859	.000298
%RSD	284.3168	41.14557	55.19223	92.98605	47.54784	27.34300	6.079594
#1	-.000226	-.000939	.0008117	-.000101	-.000896	.0103919	-.005183
#2	-.001219	-.001095	.0002681	-.001343	-.001972	.0106578	-.004591
#3	.000523	-.001955	.0004343	-.000578	-.000953	.0062252	-.004954

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000154	.0000633	.0059493	-.000271	.0000816	-.000004	-.011834
Stddev	.0000112	.0000125	.0042430	.000179	.0000812	.000392	.002863
%RSD	72.77521	19.73043	71.31962	65.89038	99.51904	9797.900	24.19714
#1	.0000179	.0000666	.0076500	-.000335	.0000631	-.000457	-.014402
#2	.0000031	.0000739	.0090780	-.000409	.0001704	.000234	-.012354
#3	.0000251	.0000495	.0011198	-.000069	.0000112	.000211	-.008746

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000094	.0100867	.0000436	.0008677	.0972723	-.000575	-.003646
Stddev	.000112	.0126589	.0001895	.0000543	.0086057	.000154	.000562
%RSD	119.4804	125.5008	434.6645	6.258890	8.847016	26.77478	15.41344
#1	-.000199	.0137463	-.000101	.0008158	.1053483	-.000480	-.003015
#2	-.000107	.0205126	-.000027	.0008631	.0982486	-.000753	-.004091
#3	.000024	-.003999	.000258	.0009241	.0882201	-.000492	-.003834

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2919134	-.002310	.0000521	.0017143	.0005961	-.007446	-.000700
Stddev	.0285167	.000366	.0000447	.0003885	.0005017	.003194	.000933
%RSD	9.768874	15.86426	85.87167	22.66473	84.16218	42.90108	133.3849
#1	.3225413	-.001898	.0000084	.0020853	.0002503	-.009958	-.001710
#2	.2870708	-.002432	.0000978	.0013104	.0011715	-.008530	-.000520
#3	.2661281	-.002599	.0000500	.0017472	.0003664	-.003851	.000130

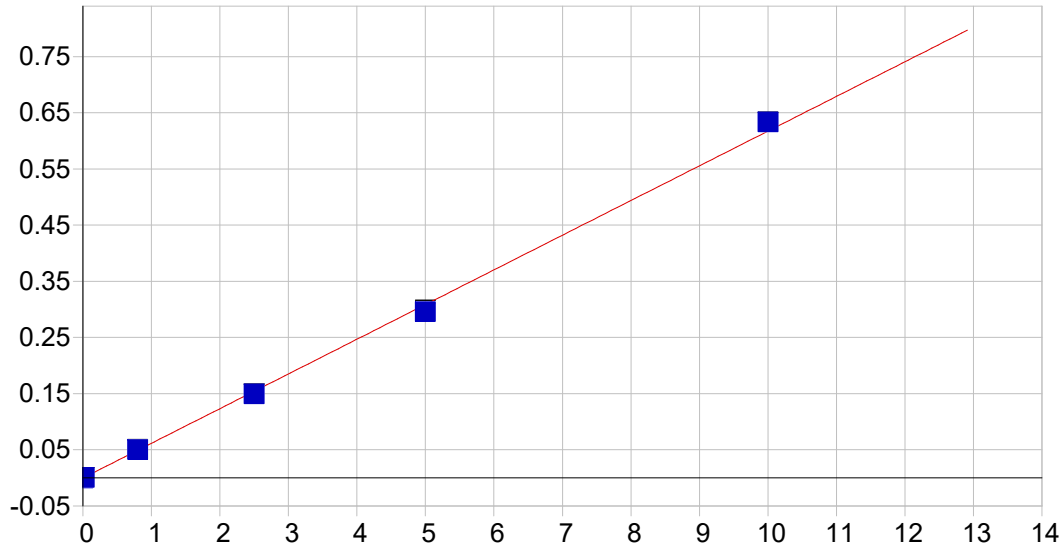
Reviewed By:kareem
On:11/6/2024 10:58:05 PM
Inst Id :P4
LB :LB133175

Sample Name: CCB11 Acquired: 10/28/2024 21:43:02 Type: Unk
Method: NON EPA-6010-200.7(v2451) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB11 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001800	-.001677	.0000066
Stddev	.001841	.000694	.0000121
%RSD	102.2985	41.35873	182.0033
#1	-.000133	-.001765	-.000001
#2	-.001490	-.000944	-.000000
#3	-.003776	-.002322	.000021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2844.376	62435.17	13765.83	1996.507	4783.081
Stddev	11.244	89.49	13.53	9.916	13.432
%RSD	.3952901	.1433249	.0982890	.4966478	.2808322
#1	2857.212	62342.07	13766.68	1992.549	4798.336
#2	2839.645	62520.54	13751.90	2007.790	4777.878
#3	2836.271	62442.91	13778.91	1989.181	4773.027

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



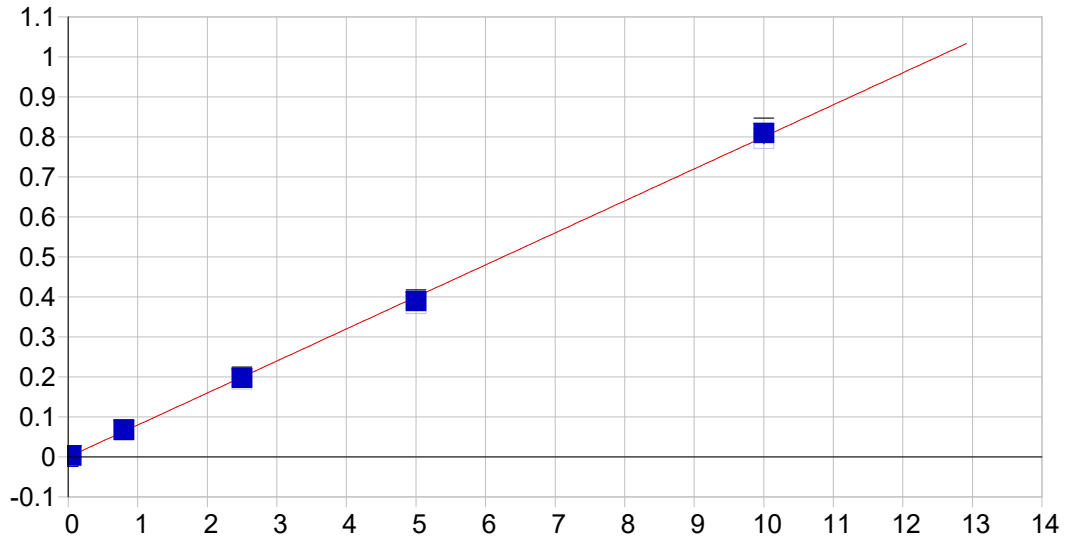
As 189.042 {479}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000191	Re-Slope:	1.000000
A1 (Gain):	0.061765	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999498	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.002124		
Predicted MQL:	0.007079		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00019	.000	1
S1	.02000	.01842	-.002	-7.91	.00094	.000	1
S3	2.5000	2.4235	-.077	-3.06	.14933	.000	1
S4	5.0000	4.7945	-.205	-4.11	.29561	.003	1
S5	10.000	10.263	.263	2.63	.63302	.000	1
S2	.80000	.82079	.021	2.60	.05045	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



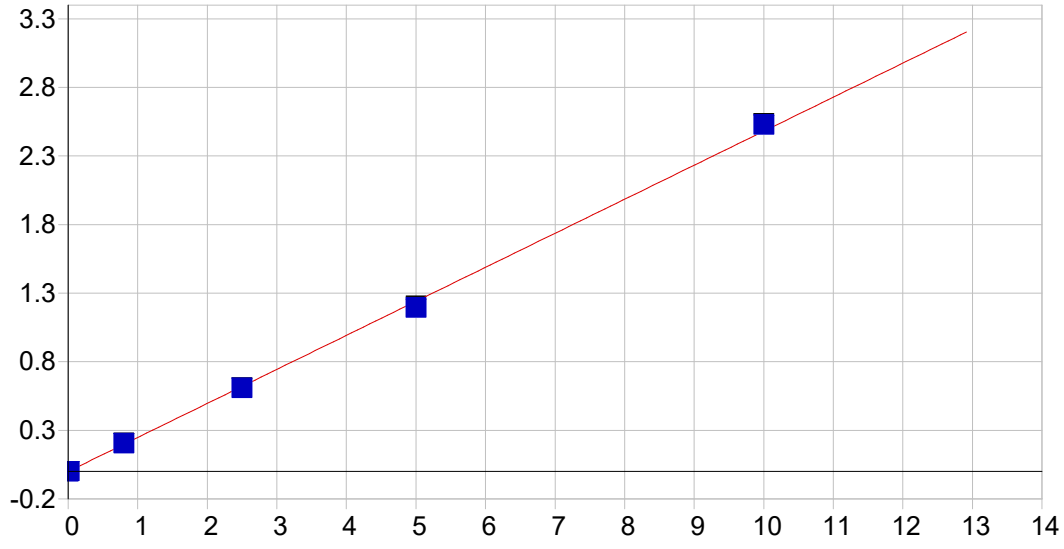
Tl 190.856 {477}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000275	Re-Slope:	1.000000
A1 (Gain):	0.080040	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999783	Status:	OK.
Std Error of Est:	0.000054		
Predicted MDL:	0.001461		
Predicted MQL:	0.004869		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00028	.000	1
S1	.04000	.03989	-.000	-.283	.00271	.000	1
S3	2.5000	2.4690	-.031	-1.24	.19366	.003	1
S4	5.0000	4.8682	-.132	-2.64	.38201	.004	1
S5	10.000	10.119	.119	1.19	.79491	.013	1
S2	.80000	.84382	.044	5.48	.06609	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



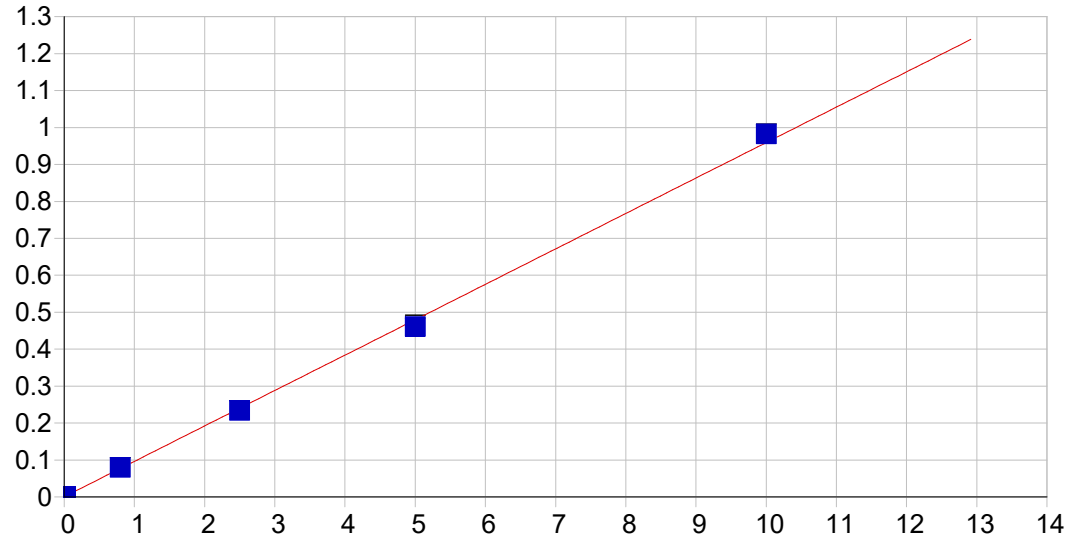
Pb 220.353 {453}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000022	Re-Slope:	1.000000
A1 (Gain):	0.248095	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999644	Status:	OK.
Std Error of Est:	0.000120		
Predicted MDL:	0.000971		
Predicted MQL:	0.003236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00002	.000	1
S1	.01200	.01012	-.002	-15.7	.00247	.000	1
S3	2.5000	2.4534	-.047	-1.86	.60803	.001	1
S4	5.0000	4.8177	-.182	-3.65	1.1939	.011	1
S5	10.000	10.199	.199	1.99	2.5276	.006	1
S2	.80000	.83194	.032	3.99	.20620	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



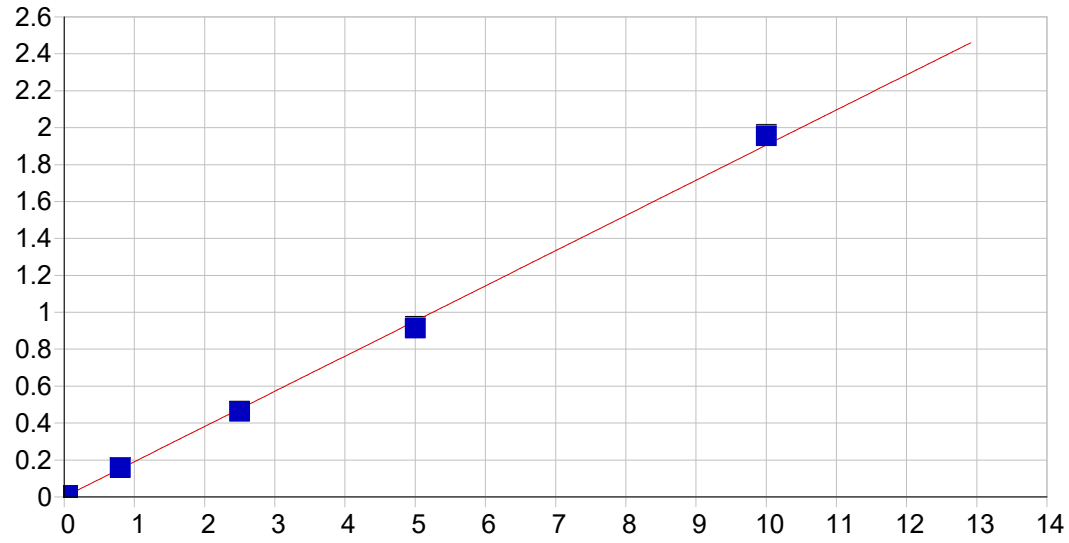
Se 196.090 {472}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000343	Re-Slope:	1.000000
A1 (Gain):	0.095883	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999552	Status:	OK.
Std Error of Est:	0.000067		
Predicted MDL:	0.001856		
Predicted MQL:	0.006186		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00034	.000	1
S1	.02000	.01819	-.002	-9.05	.00209	.000	1
S3	2.5000	2.4322	-.068	-2.71	.23349	.000	1
S4	5.0000	4.8027	-.197	-3.95	.46072	.004	1
S5	10.000	10.244	.244	2.44	.98228	.000	1
S2	.80000	.82339	.023	2.92	.07927	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



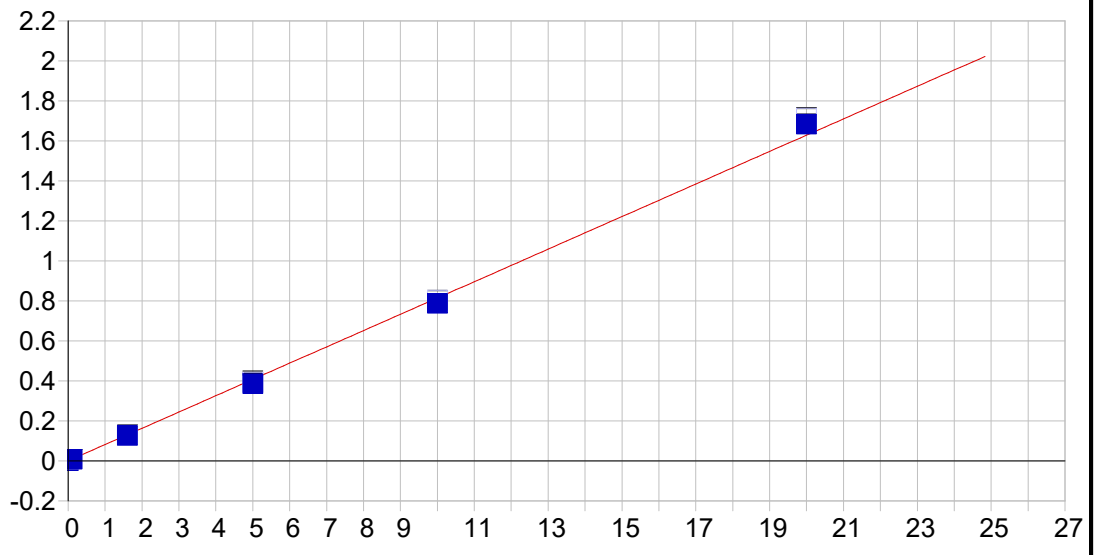
Sb 206.833 {463}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000209	Re-Slope:	1.000000
A1 (Gain):	0.190505	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999497	Status:	OK.
Std Error of Est:	0.000225		
Predicted MDL:	0.001137		
Predicted MQL:	0.003789		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00021	.000	1
S1	.05000	.04954	-.000	-.930	.00967	.000	1
S3	2.5000	2.4246	-.075	-3.02	.46340	.001	1
S4	5.0000	4.7909	-.209	-4.18	.91549	.008	1
S5	10.000	10.258	.258	2.58	1.9595	.004	1
S2	.80000	.82733	.027	3.42	.15823	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



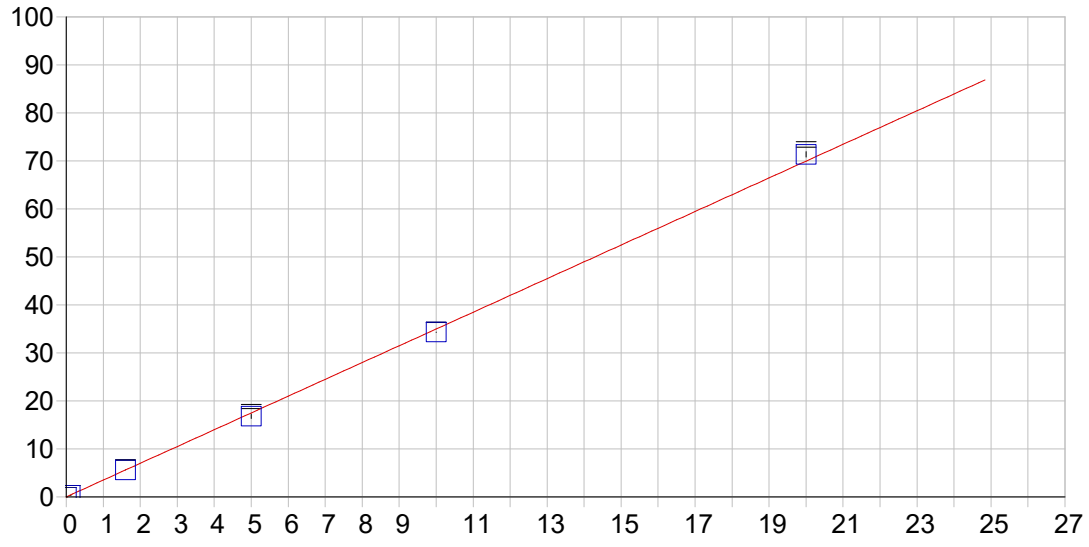
Al 396.152 { 85}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000358	Re-Slope:	1.000000
A1 (Gain):	0.081419	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999352	Status:	OK.
Std Error of Est:	0.000222		
Predicted MDL:	0.005387		
Predicted MQL:	0.017958		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00036	.001	1
S1	.10000	.09567	-.004	-4.33	.00878	.000	1
S3	5.0000	4.7307	-.269	-5.39	.39342	.006	1
S4	10.000	9.6572	-.343	-3.43	.80243	.000	1
S5	20.000	20.660	.660	3.30	1.7141	.002	1
S2	1.6000	1.5563	-.044	-2.73	.12959	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



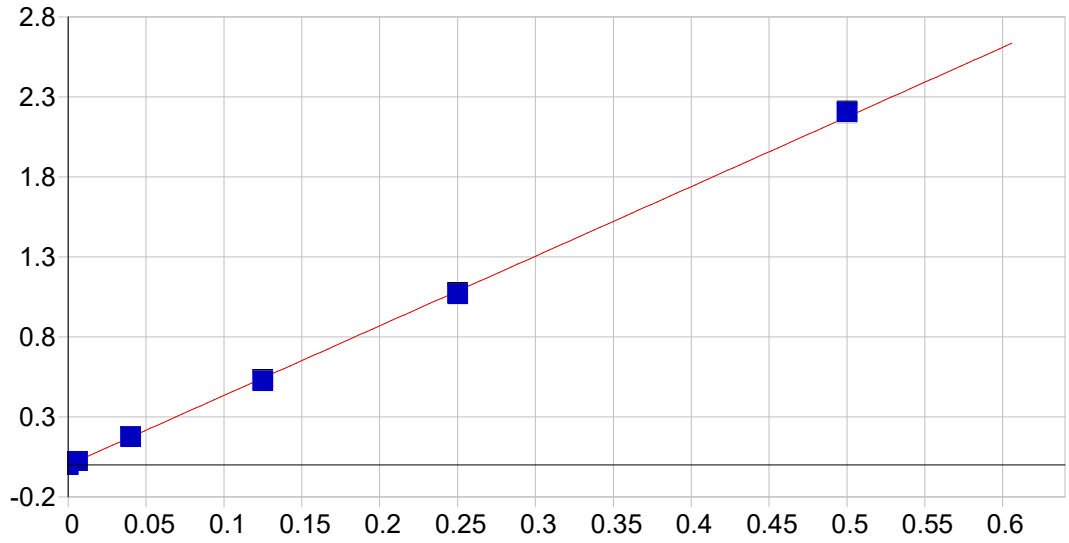
Ba 493.409 { 68}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005789	Re-Slope:	1.000000
A1 (Gain):	3.497549	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999724	Status:	OK.
Std Error of Est:	0.006098		
Predicted MDL:	0.000422		
Predicted MQL:	0.001405		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00580	.001	1
S1	.10000	.09947	-.001	-.533	.35368	.001	1
S3	5.0000	4.7922	-.208	-4.16	16.767	.416	1
S4	10.000	9.8061	-.194	-1.94	34.303	.040	1
S5	20.000	20.397	.397	1.98	71.345	.569	1
S2	1.6000	1.6054	.005	.337	5.6208	.019	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



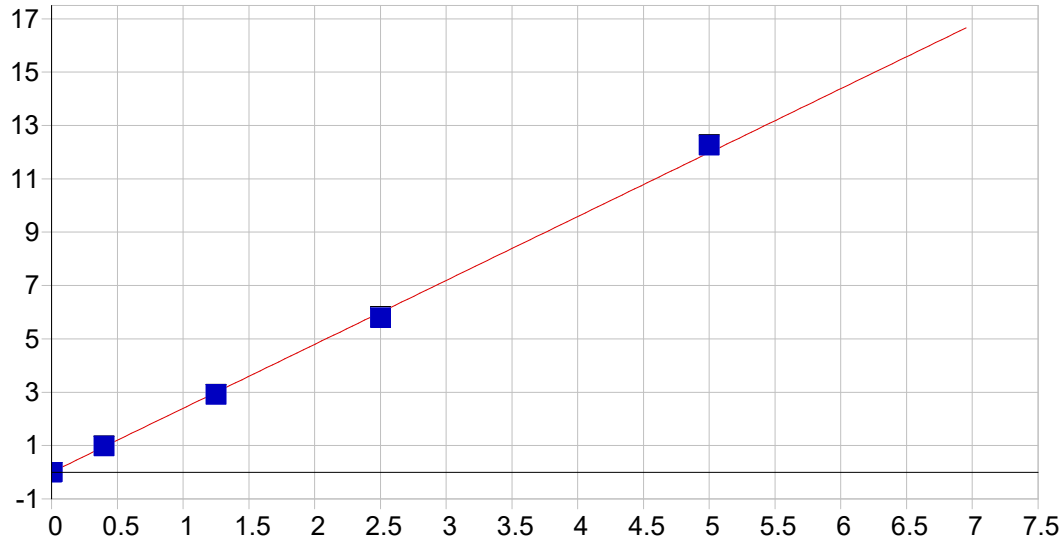
Be 234.861 {144}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000773	Re-Slope:	1.000000
A1 (Gain):	4.350247	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999847	Status:	OK.
Std Error of Est:	0.000218		
Predicted MDL:	0.000050		
Predicted MQL:	0.000168		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00077	.000	1
S1	.00600	.00577	-.000	-3.85	.02413	.000	1
S3	.12500	.12129	-.004	-2.97	.52442	.007	1
S4	.25000	.24635	-.004	-1.46	1.0660	.007	1
S5	.50000	.50717	.007	1.43	2.1958	.006	1
S2	.04000	.04043	.000	1.08	.17433	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



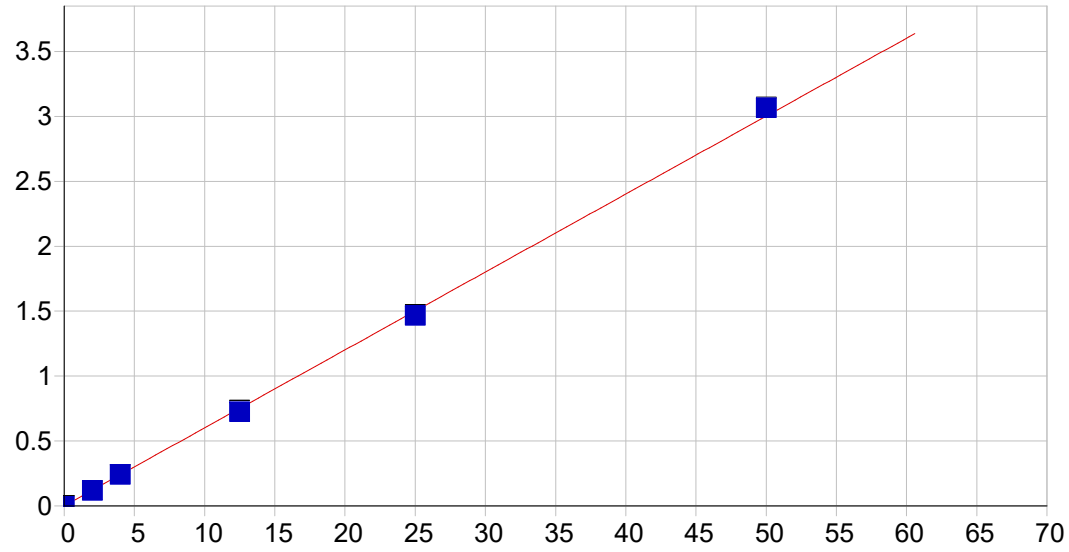
Cd 226.502 {449}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000030	Re-Slope:	1.000000
A1 (Gain):	2.396615	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999638	Status:	OK.
Std Error of Est:	0.000585		
Predicted MDL:	0.000077		
Predicted MQL:	0.000256		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00003	.000	1
S1	.00600	.00567	-.000	-5.42	.01368	.000	1
S3	1.2500	1.2149	-.035	-2.81	2.9137	.004	1
S4	2.5000	2.4145	-.085	-3.42	5.7909	.051	1
S5	5.0000	5.1131	.113	2.26	12.262	.022	1
S2	.40000	.40785	.008	1.96	.97815	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



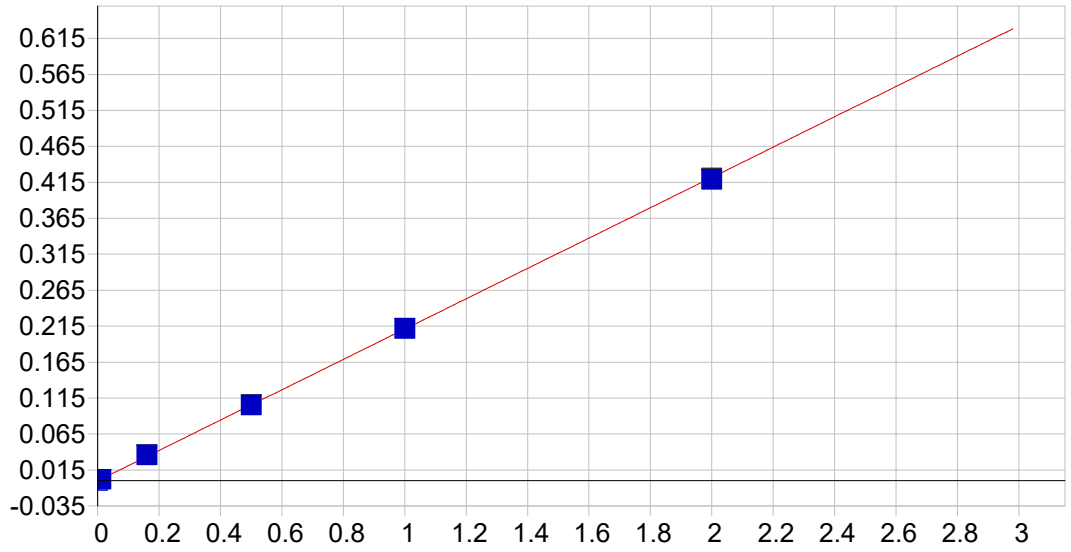
Ca 373.690 { 90}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001069	Re-Slope:	1.000000
A1 (Gain):	0.060021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999711	Status:	OK.
Std Error of Est:	0.000763		
Predicted MDL:	0.007107		
Predicted MQL:	0.023689		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00012	.000	.000	.00108	.000	1
S2	4.0000	3.9978	-.002	-.056	.24102	.001	1
S3	12.500	12.045	-.455	-3.64	.72400	.013	1
S4	25.000	24.422	-.578	-2.31	1.4669	.007	1
S5	50.000	51.076	1.08	2.15	3.0667	.005	1
S1	2.0000	1.9593	-.041	-2.03	.11867	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



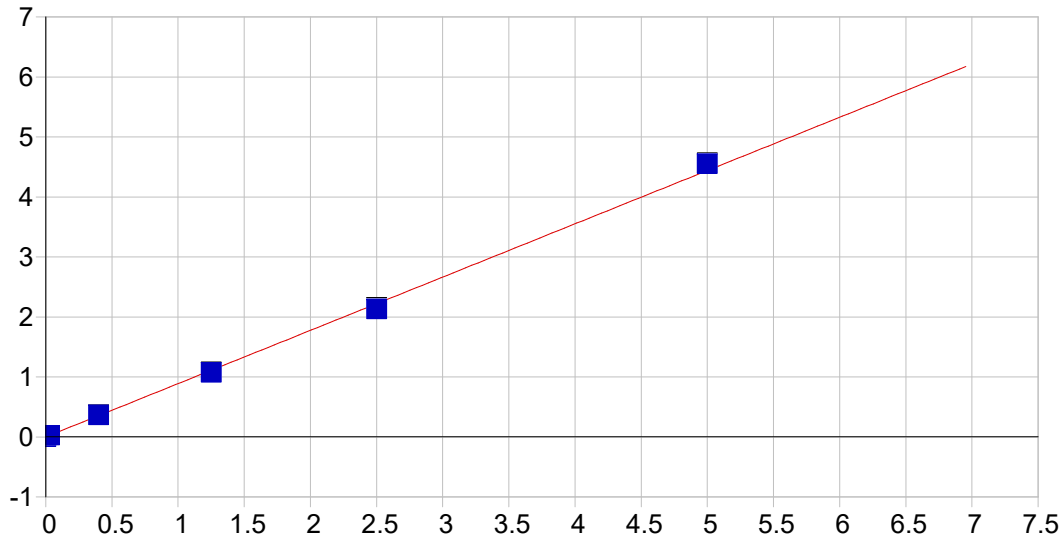
Cr 267.716 {126}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000037	Re-Slope:	1.000000
A1 (Gain):	0.210885	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.000358		
Predicted MQL:	0.001195		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00004	.000	1
S1	.01000	.01016	.000	1.57	.00211	.000	1
S3	.50000	.49904	-.001	-.192	.10523	.000	1
S4	1.0000	1.0035	.003	.349	.21165	.000	1
S5	2.0000	1.9873	-.013	-.637	.41917	.001	1
S2	.16000	.17006	.010	6.29	.03584	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



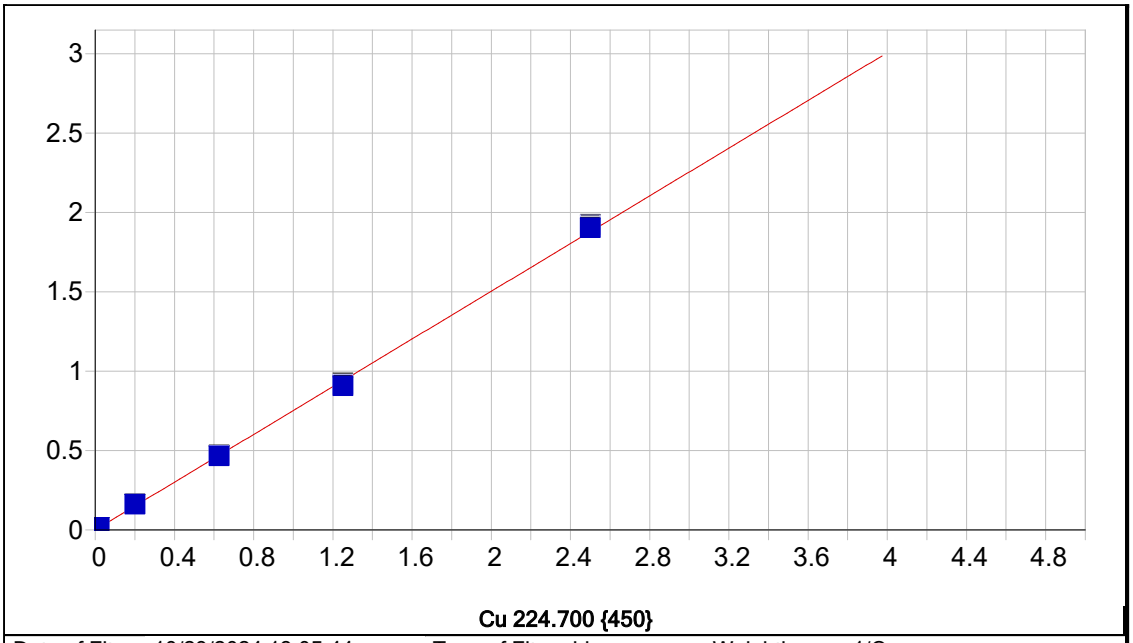
Co 228.616 {448}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.887831	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999541	Status:	OK.
Std Error of Est:	0.000547		
Predicted MDL:	0.000186		
Predicted MQL:	0.000619		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00000	.000	1
S1	.03000	.03026	.000	.867	.02676	.000	1
S3	1.2500	1.2109	-.039	-3.13	1.0769	.003	1
S4	2.5000	2.4026	-.097	-3.89	2.1369	.021	1
S5	5.0000	5.1255	.126	2.51	4.5582	.008	1
S2	.40000	.41070	.011	2.67	.36523	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



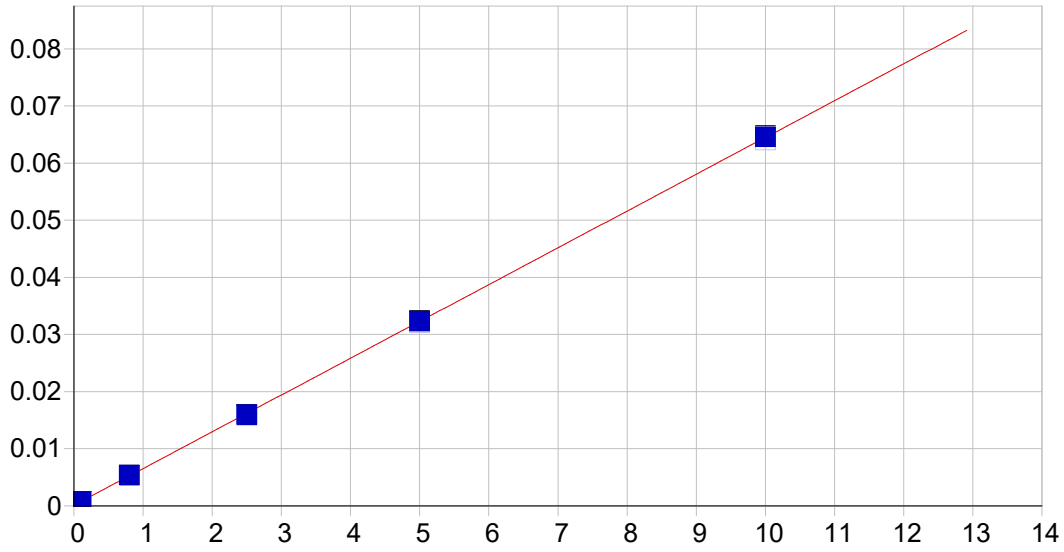
Cu 224.700 {450}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000343	Re-Slope:	1.000000
A1 (Gain):	0.751768	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999685	Status:	OK.
Std Error of Est:	0.000223		
Predicted MDL:	0.000373		
Predicted MQL:	0.001245		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00034	.000	1
S1	.02000	.02140	.001	7.00	.01662	.000	1
S3	.62500	.61959	-.005	-.866	.47061	.001	1
S4	1.2500	1.2075	-.042	-3.40	.91706	.008	1
S5	2.5000	2.5329	.033	1.32	1.9224	.003	1
S2	.20000	.21360	.014	6.80	.16235	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



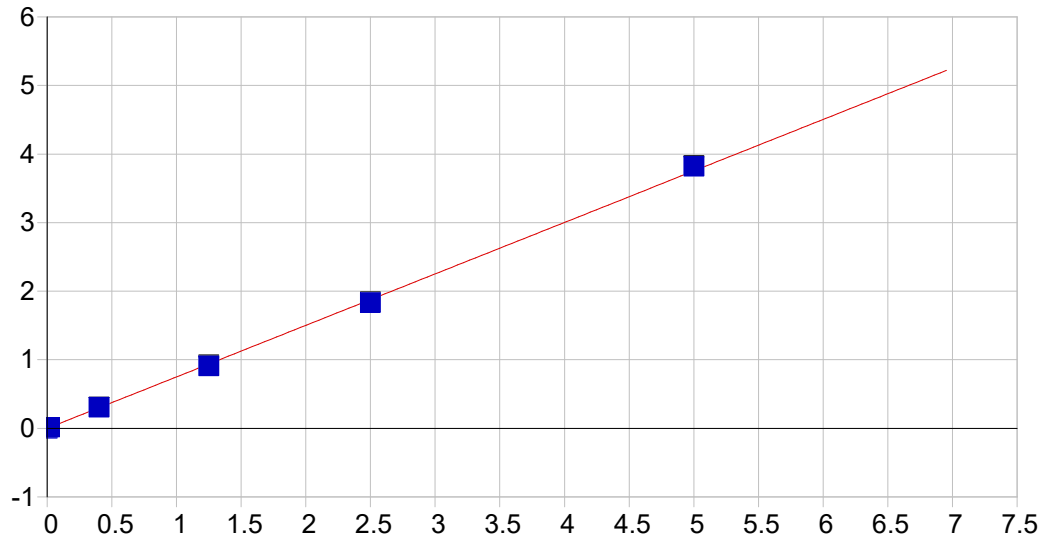
Fe 240.488 {140}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000100	Re-Slope:	1.000000
A1 (Gain):	0.006440	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.003837		
Predicted MQL:	0.012790		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00010	.000	1
S1	.10000	.10378	.004	3.78	.00076	.000	1
S3	2.5000	2.4629	-.037	-1.48	.01582	.000	1
S4	5.0000	5.0066	.007	.132	.03207	.000	1
S5	10.000	10.011	.011	.111	.06402	.000	1
S2	.80000	.81560	.016	1.95	.00531	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



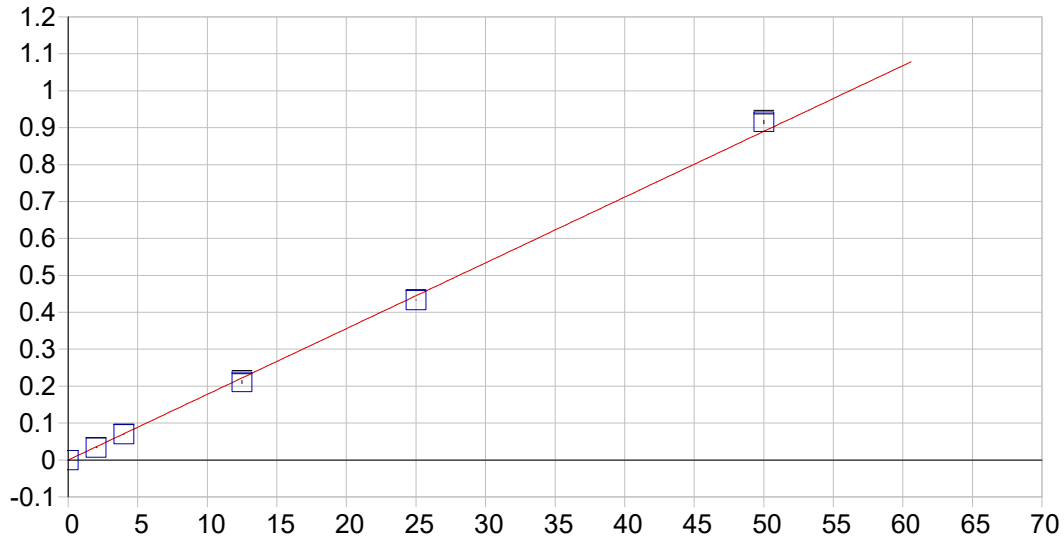
Mn 257.610 {131}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.750714	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999761	Status:	OK.
Std Error of Est:	0.000272		
Predicted MDL:	0.000243		
Predicted MQL:	0.000810		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00001	.000	1
S1	.02000	.02018	.000	.898	.01517	.000	1
S3	1.2500	1.2105	-.039	-3.16	.90896	.015	1
S4	2.5000	2.4416	-.058	-2.34	1.8333	.008	1
S5	5.0000	5.0891	.089	1.78	3.8212	.007	1
S2	.40000	.40863	.009	2.16	.30683	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



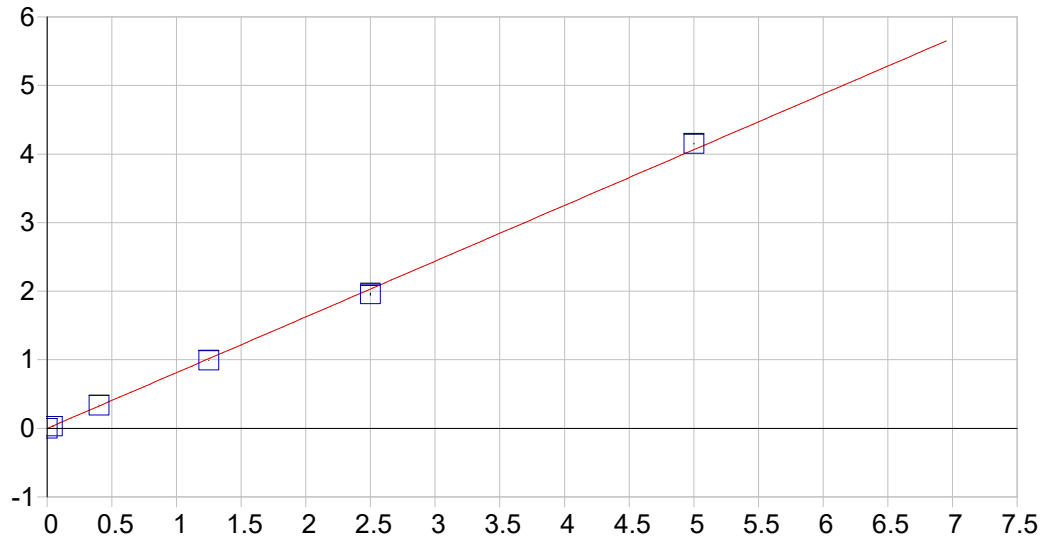
Mg 279.079 {121}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000202	Re-Slope:	1.000000
A1 (Gain):	0.017802	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999496	Status:	OK.
Std Error of Est:	0.000299		
Predicted MDL:	0.010803		
Predicted MQL:	0.036009		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00022	.000	.000	-.00020	.000	1
S2	4.0000	3.9149	-.085	-2.13	.06949	.000	1
S3	12.500	11.881	-.619	-4.95	.21130	.004	1
S4	25.000	24.354	-.646	-2.58	.43335	.001	1
S5	50.000	51.437	1.44	2.87	.91548	.005	1
S1	2.0000	1.9132	-.087	-4.34	.03386	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



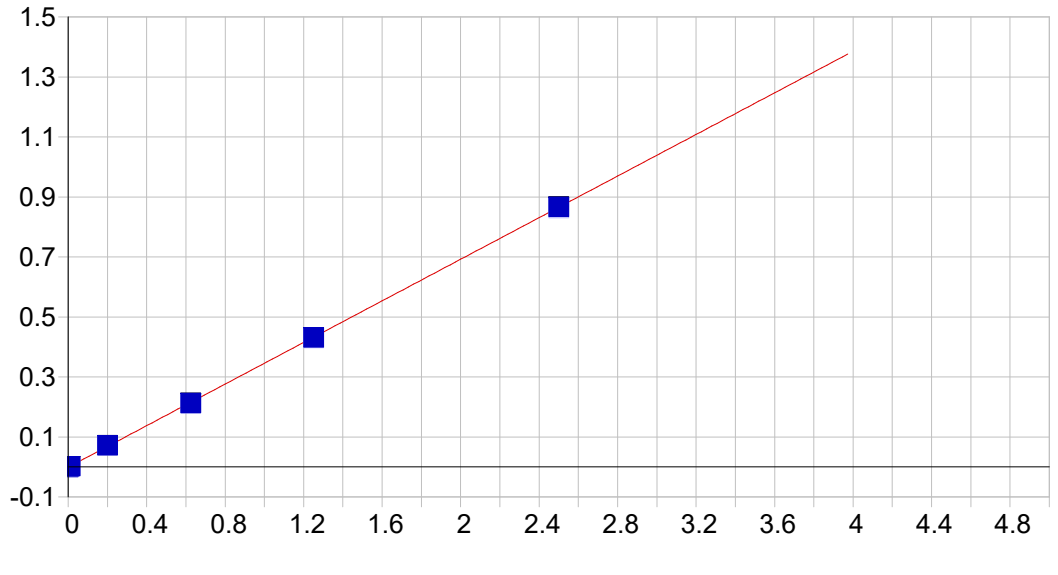
Ni 231.604 {446}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000148	Re-Slope:	1.000000
A1 (Gain):	0.812736	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999616	Status:	OK.
Std Error of Est:	0.000529		
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	-.00015	.000	1
S1	.04000	.03977	-.000	-.580	.03217	.000	1
S3	1.2500	1.2192	-.031	-2.46	.99077	.002	1
S4	2.5000	2.4077	-.092	-3.69	1.9566	.017	1
S5	5.0000	5.1090	.109	2.18	4.1521	.007	1
S2	.40000	.41432	.014	3.58	.33659	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



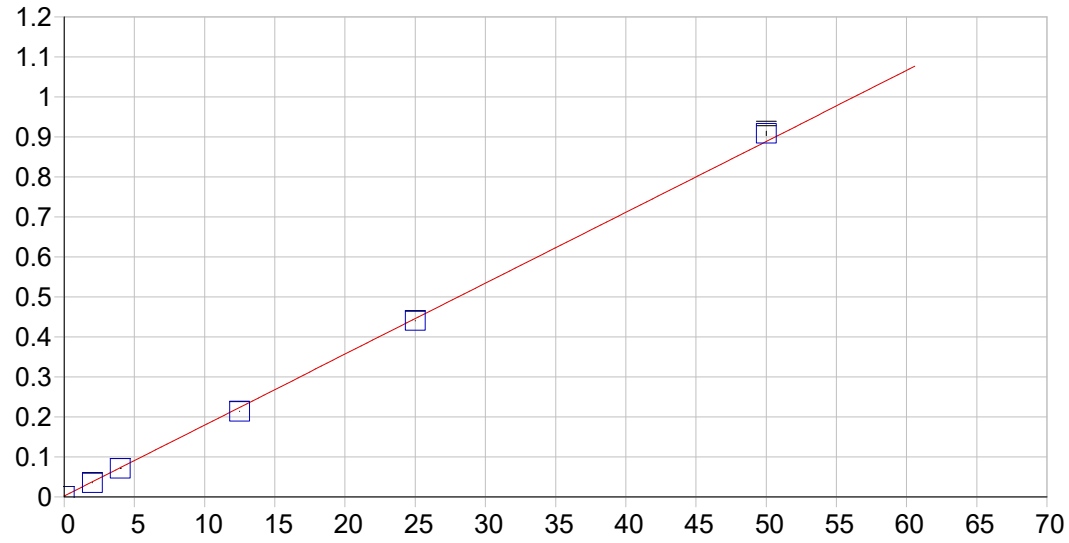
Ag 328.068 {103}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001292	Re-Slope:	1.000000
A1 (Gain):	0.346712	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.000304		
Predicted MQL:	0.001012		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00129	.000	1
S1	.01000	.01060	.001	6.00	.00236	.000	1
S3	.62500	.61618	-.009	-1.41	.21148	.000	1
S4	1.2500	1.2467	-.003	-.268	.42922	.000	1
S5	2.5000	2.5016	.002	.066	.86262	.001	1
S2	.20000	.20993	.010	4.97	.07122	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



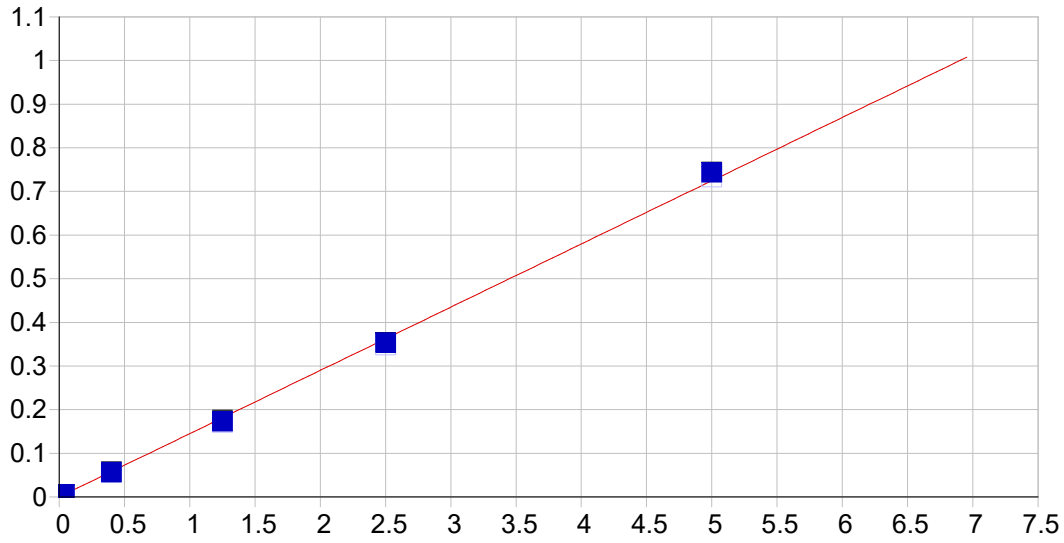
Na 589.592 { 57}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002414	Re-Slope:	1.000000
A1 (Gain):	0.017727	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999639	Status:	OK.
Std Error of Est:	0.000252		
Predicted MDL:	0.008805		
Predicted MQL:	0.029350		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00027	.000	.000	.00242	.000	1
S2	4.0000	3.8870	-.113	-2.83	.07132	.000	1
S3	12.500	11.927	-.573	-4.58	.21384	.000	1
S4	25.000	24.710	-.290	-1.16	.44045	.001	1
S5	50.000	51.115	1.12	2.23	.90853	.006	1
S1	2.0000	1.8602	-.140	-6.99	.03539	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



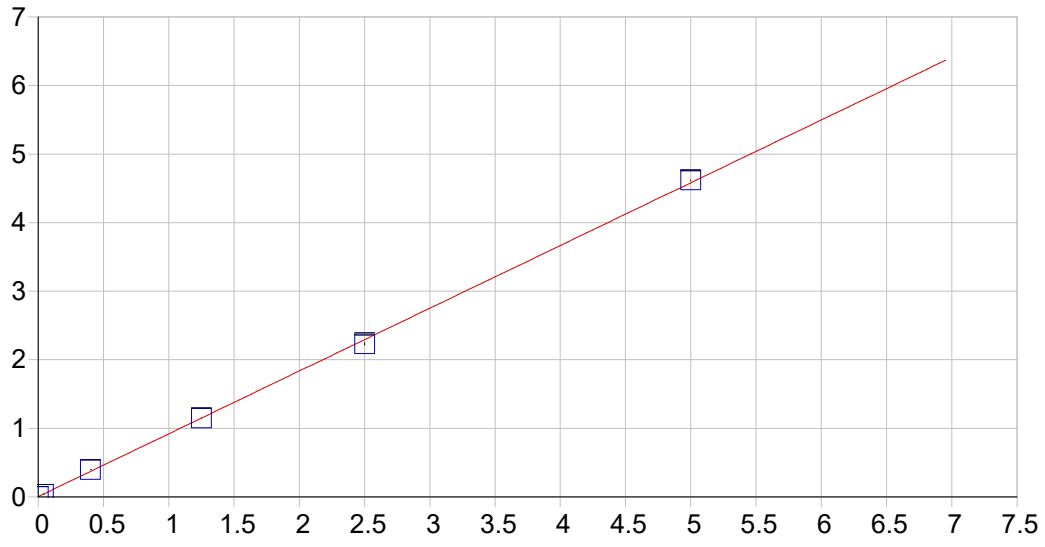
V 292.402 {115}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000073	Re-Slope:	1.000000
A1 (Gain):	0.144912	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999561	Status:	OK.
Std Error of Est:	0.000099		
Predicted MDL:	0.001368		
Predicted MQL:	0.004559		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00007	.000	1
S1	.04000	.03840	-.002	-3.99	.00542	.000	1
S3	1.2500	1.1932	-.057	-4.55	.17034	.003	1
S4	2.5000	2.4364	-.064	-2.54	.34786	.001	1
S5	5.0000	5.1303	.130	2.61	.73296	.001	1
S2	.40000	.39159	-.008	-2.10	.05597	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



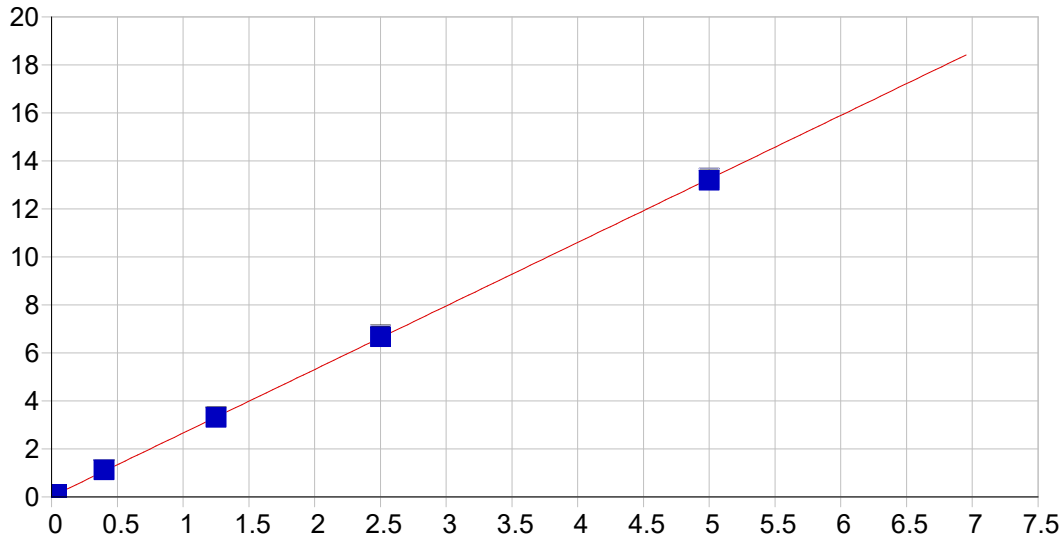
Zn 206.200 {464}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005248	Re-Slope:	1.000000
A1 (Gain):	0.915252	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999783	Status:	OK.
Std Error of Est:	0.000447		
Predicted MDL:	0.000191		
Predicted MQL:	0.000637		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00525	.000	1
S1	.04000	.03922	-.001	-1.95	.04115	.000	1
S3	1.2500	1.2511	.001	.089	1.1503	.002	1
S4	2.5000	2.4327	-.067	-2.69	2.2318	.017	1
S5	5.0000	5.0398	.040	.796	4.6179	.006	1
S2	.40000	.42716	.027	6.79	.39621	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



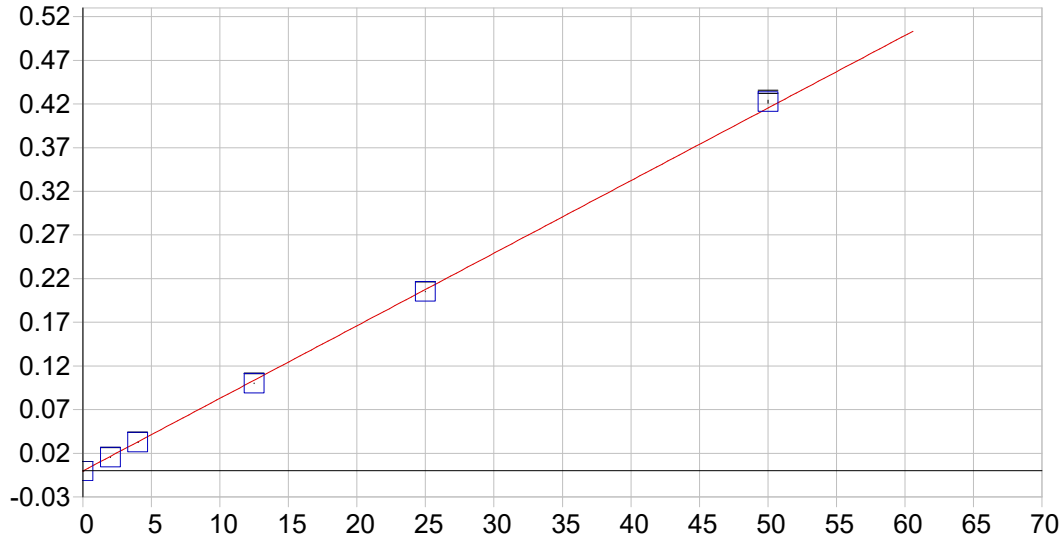
Zn 213.856 {158}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.015677	Re-Slope:	1.000000
A1 (Gain):	2.646667	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000721		
Predicted MDL:	0.000267		
Predicted MQL:	0.000889		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01568	.001	1
S1	.04000	.03773	-.002	-5.69	.11627	.002	1
S3	1.2500	1.2445	-.006	-.441	3.3324	.010	1
S4	2.5000	2.5147	.015	.589	6.7173	.030	1
S5	5.0000	4.9744	-.026	-.511	13.273	.012	1
S2	.40000	.41863	.019	4.66	1.1310	.006	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



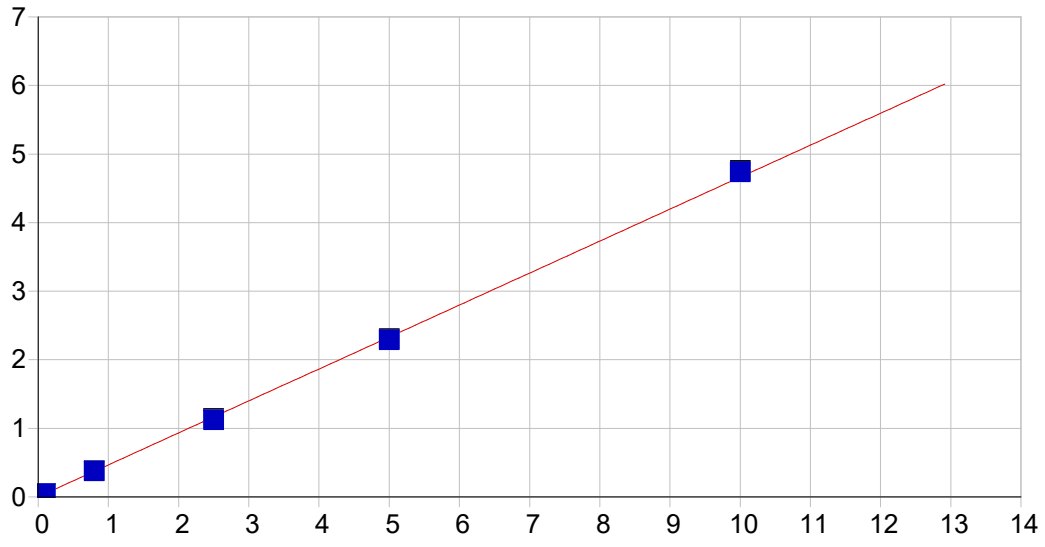
K 766.490 { 44}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000242	Re-Slope:	1.000000
A1 (Gain):	0.008312	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999788	Status:	OK.
Std Error of Est:	0.000091		
Predicted MDL:	0.022097		
Predicted MQL:	0.073656		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00019	.000	.000	-.00024	.000	1
S2	4.0000	3.9539	-.046	-1.15	.03262	.000	1
S3	12.500	12.084	-.416	-3.32	.10020	.000	1
S4	25.000	24.706	-.294	-1.18	.20511	.000	1
S5	50.000	50.871	.871	1.74	.42260	.002	1
S1	2.0000	1.8844	-.116	-5.78	.01542	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



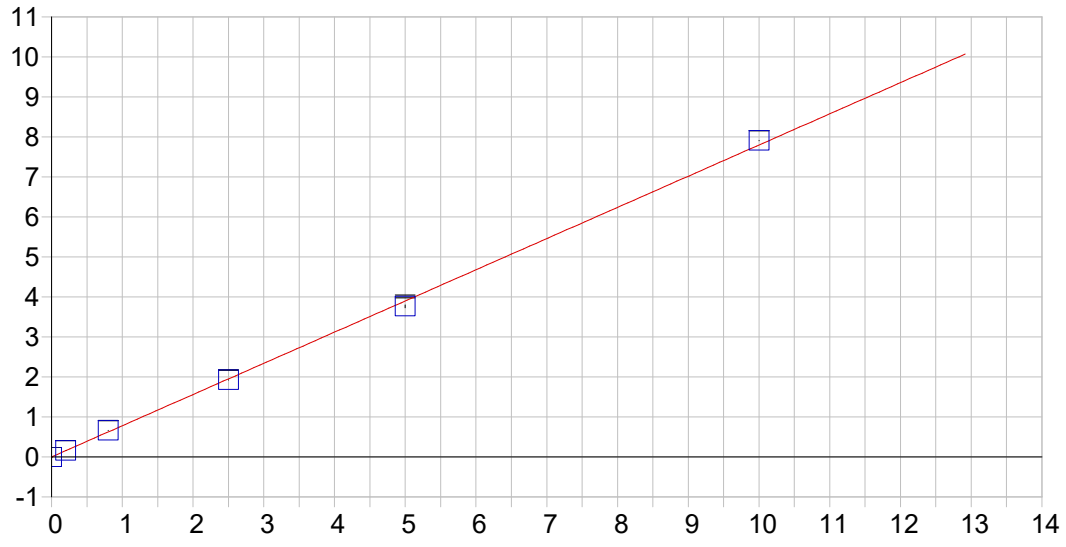
B 249.678 {135}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001049	Re-Slope:	1.000000
A1 (Gain):	0.466168	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999788	Status:	OK.
Std Error of Est:	0.000503		
Predicted MDL:	0.000575		
Predicted MQL:	0.001916		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00105	.000	1
S1	.10000	.10140	.001	1.40	.04812	.000	1
S3	2.5000	2.4089	-.091	-3.64	1.1217	.015	1
S4	5.0000	4.9138	-.086	-1.72	2.2871	.012	1
S5	10.000	10.171	.171	1.71	4.7332	.017	1
S2	.80000	.80526	.005	.658	.37571	.002	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



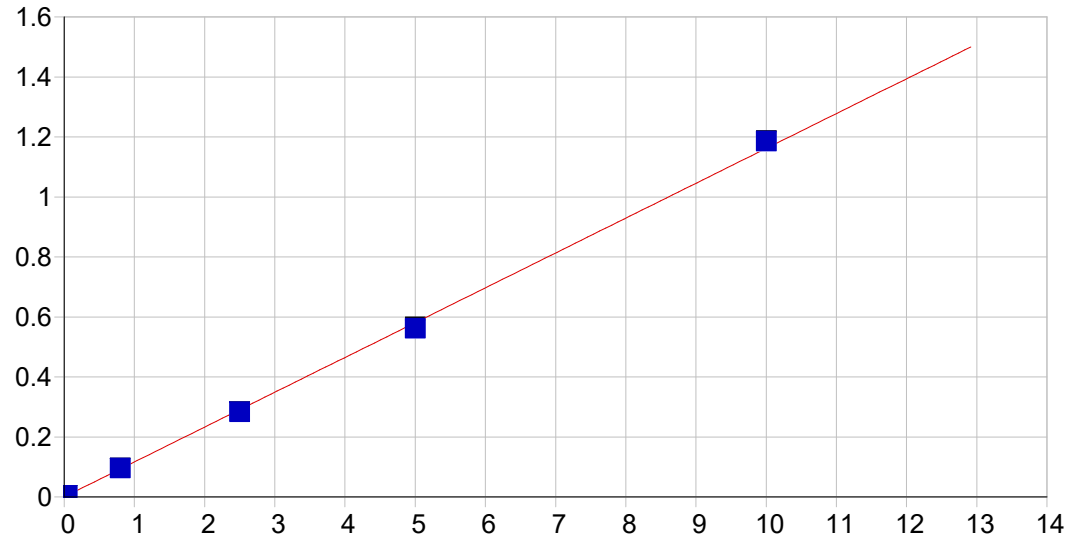
Mo 202.030 {467}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000092	Re-Slope:	1.000000
A1 (Gain):	0.779710	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999695	Status:	OK.
Std Error of Est:	0.001433		
Predicted MDL:	0.000237		
Predicted MQL:	0.000789		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00008	.000	1
S1	.20000	.20794	.008	3.97	.16222	.001	1
S3	2.5000	2.4703	-.030	-1.19	1.9262	.003	1
S4	5.0000	4.8313	-.169	-3.37	3.7671	.037	1
S5	10.000	10.142	.142	1.42	7.9083	.006	1
S2	.80000	.84801	.048	6.00	.66129	.002	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



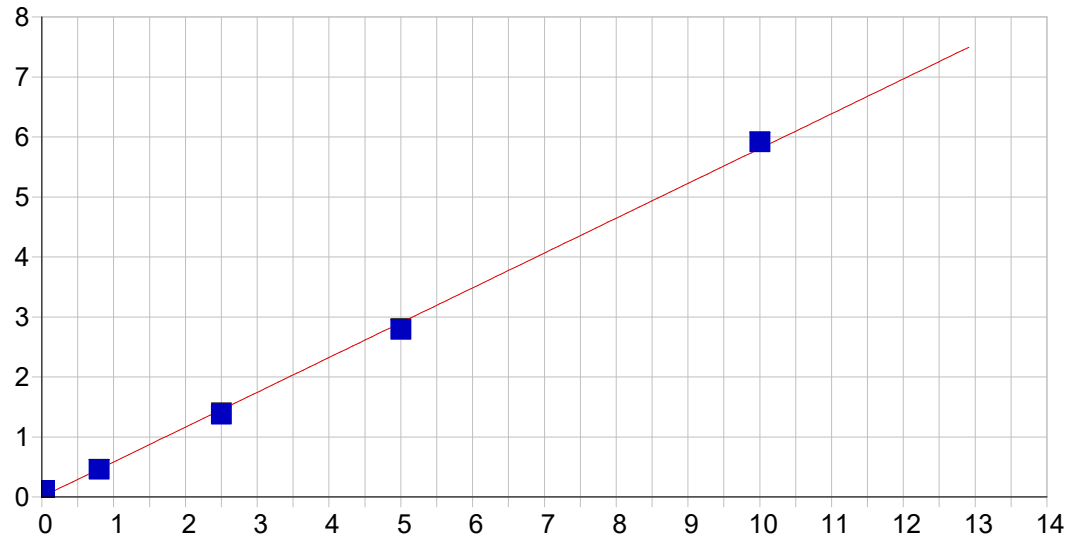
Sn 189.989 {478}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000333	Re-Slope:	1.000000
A1 (Gain):	0.116115	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999674	Status:	OK.
Std Error of Est:	0.000098		
Predicted MDL:	0.000729		
Predicted MQL:	0.002428		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00033	.000	1
S1	.04000	.03930	-.001	-1.74	.00489	.000	1
S3	2.5000	2.4377	-.062	-2.49	.28309	.000	1
S4	5.0000	4.8342	-.166	-3.32	.56106	.005	1
S5	10.000	10.208	.208	2.08	1.1845	.002	1
S2	.80000	.82053	.021	2.57	.09551	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



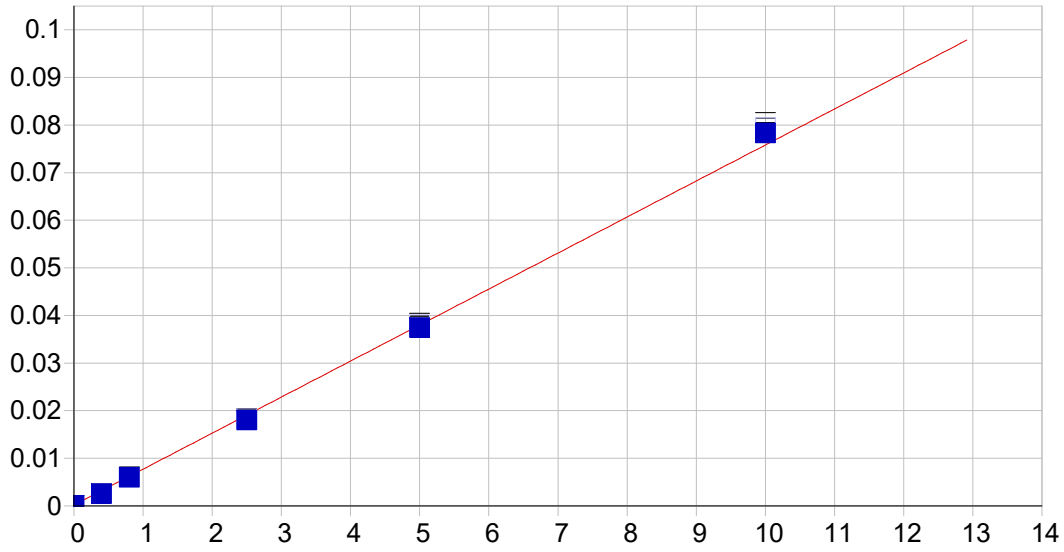
Ti 336.121 {100}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001743	Re-Slope:	1.000000
A1 (Gain):	0.580347	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.984546	Status:	OK.
Std Error of Est:	0.003421		
Predicted MDL:	0.000504		
Predicted MQL:	0.001680		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00166	.000	1
S1	.04000	.18980	.150	375.	.11188	.000	1
S3	2.5000	2.3666	-.133	-5.34	1.3747	.024	1
S4	5.0000	4.8077	-.192	-3.85	2.7908	.007	1
S5	10.000	10.188	.188	1.88	5.9124	.002	1
S2	.80000	.78757	-.012	-1.55	.45864	.001	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



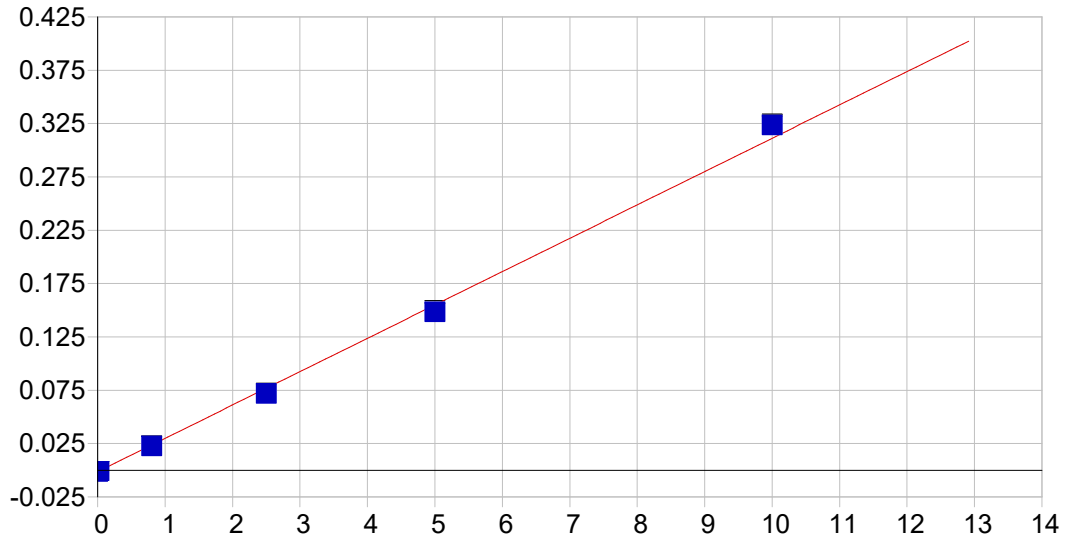
Si 288.158 {117}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000160	Re-Slope:	1.000000
A1 (Gain):	0.007565	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998940	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	0.005594		
Predicted MQL:	0.018646		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00012	.000	.000	.00016	.000	1
S1	.40000	.31291	-.087	-21.8	.00253	.000	1
S3	2.5000	2.3567	-.143	-5.73	.01827	.000	1
S4	5.0000	4.9289	-.071	-1.42	.03802	.000	1
S5	10.000	10.335	.335	3.35	.07948	.001	1
S2	.80000	.76590	-.034	-4.26	.00605	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



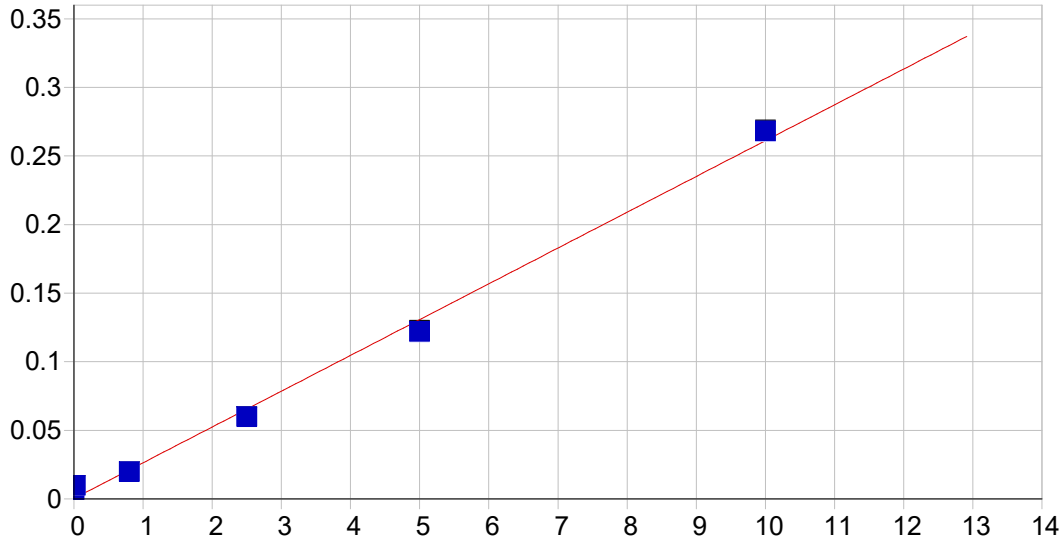
P 177.495 {490}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001346	Re-Slope:	1.000000
A1 (Gain):	0.031260	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999033	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.002533		
Predicted MQL:	0.008442		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00135	.000	1
S1	.02000	.01728	-.003	-13.6	-.00081	.000	1
S3	2.5000	2.3444	-.156	-6.22	.07193	.000	1
S4	5.0000	4.7919	-.208	-4.16	.14842	.001	1
S5	10.000	10.396	.396	3.96	.32358	.001	1
S2	.80000	.77057	-.029	-3.68	.02274	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



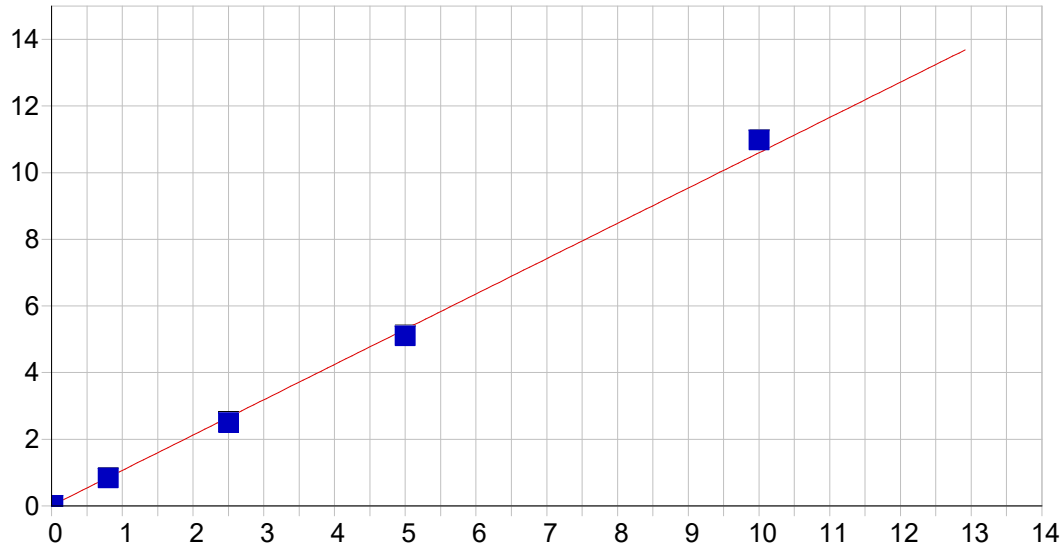
S 182.034 {485}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000264	Re-Slope:	1.000000
A1 (Gain):	0.026094	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.868646	Status:	OK.
Std Error of Est:	0.000348		
Predicted MDL:	0.002996		
Predicted MQL:	0.009986		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00034	-.000	.000	.00026	.000	1
S1	.02000	.36264	.343	1710.	.00970	.000	1
S3	2.5000	2.2844	-.216	-8.62	.05970	.000	1
S4	5.0000	4.6649	-.335	-6.70	.12165	.001	1
S5	10.000	10.274	.274	2.74	.26766	.001	1
S2	.80000	.74821	-.052	-6.47	.01973	.000	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



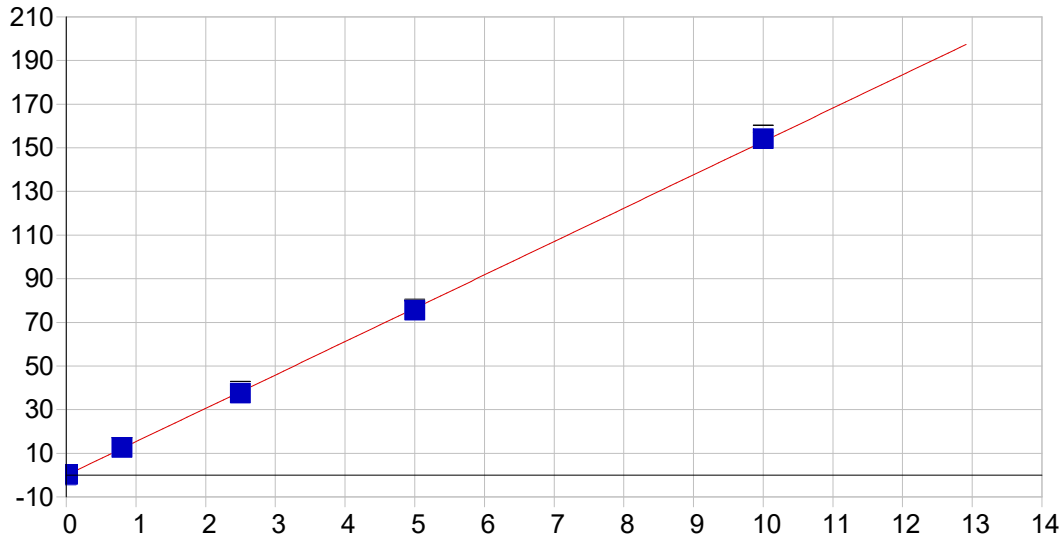
Li 670.784 { 50}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007037	Re-Slope:	1.000000
A1 (Gain):	1.059101	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999218	Status:	OK.
Std Error of Est:	0.000983		
Predicted MDL:	0.000737		
Predicted MQL:	0.002458		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00704	.000	1
S5	10.000	10.354	.354	3.54	10.982	.017	1
S4	5.0000	4.8115	-.188	-3.77	5.1077	.018	1
S3	2.5000	2.3537	-.146	-5.85	2.5023	.037	1
S1	.02000	.01796	-.002	-10.2	.02644	.000	1
S2	.80000	.78315	-.017	-2.11	.83723	.003	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



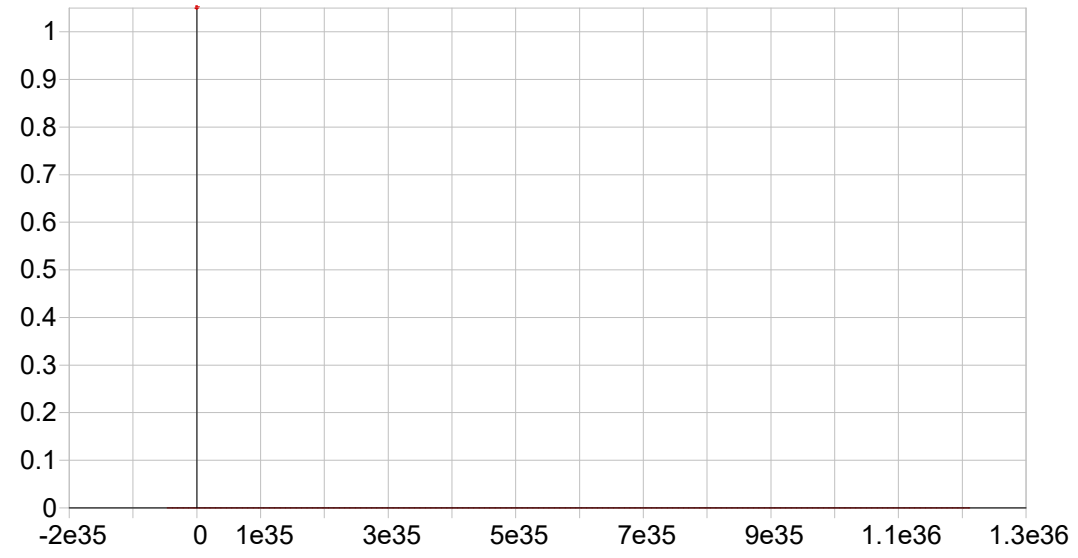
Sr 407.771 { 83}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000608	Re-Slope:	1.000000
A1 (Gain):	15.289362	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.004587		
Predicted MDL:	0.000032		
Predicted MQL:	0.000108		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00061	.000	1
S1	.02000	.01982	-.000	-.881	.30401	.001	1
S3	2.5000	2.4543	-.046	-1.83	37.562	.820	1
S4	5.0000	4.9390	-.061	-1.22	75.590	.493	1
S5	10.000	10.082	.082	.825	154.31	1.60	1
S2	.80000	.82437	.024	3.05	12.616	.031	1

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198

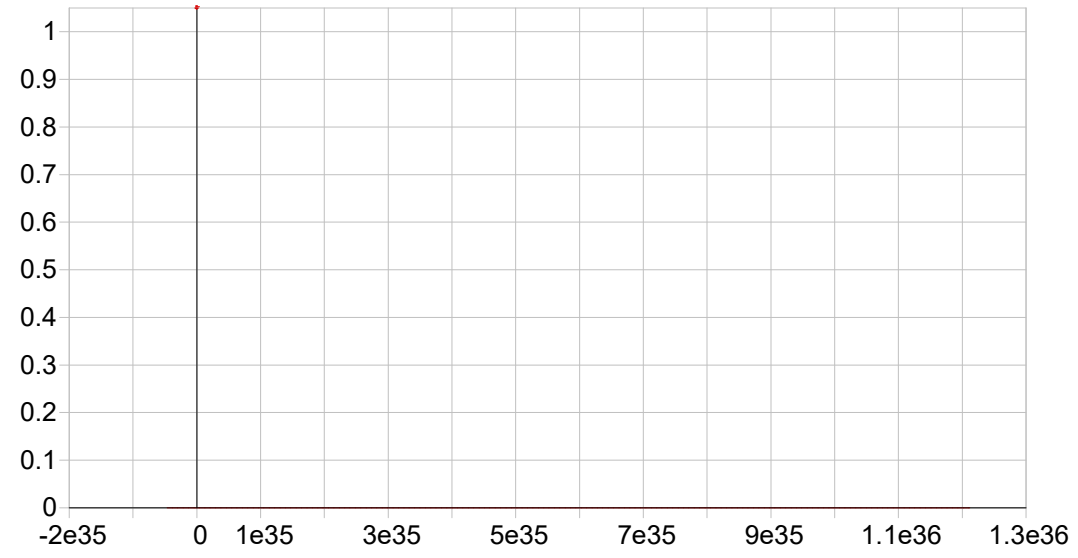


Y 224.306 {450}*

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

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

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



Y 360.073 { 94}*

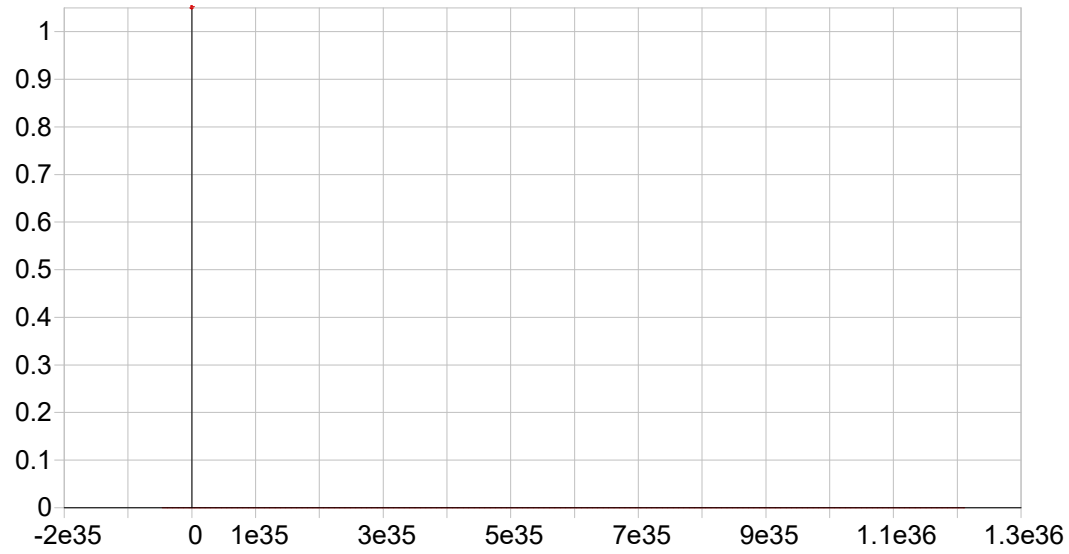
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198

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

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



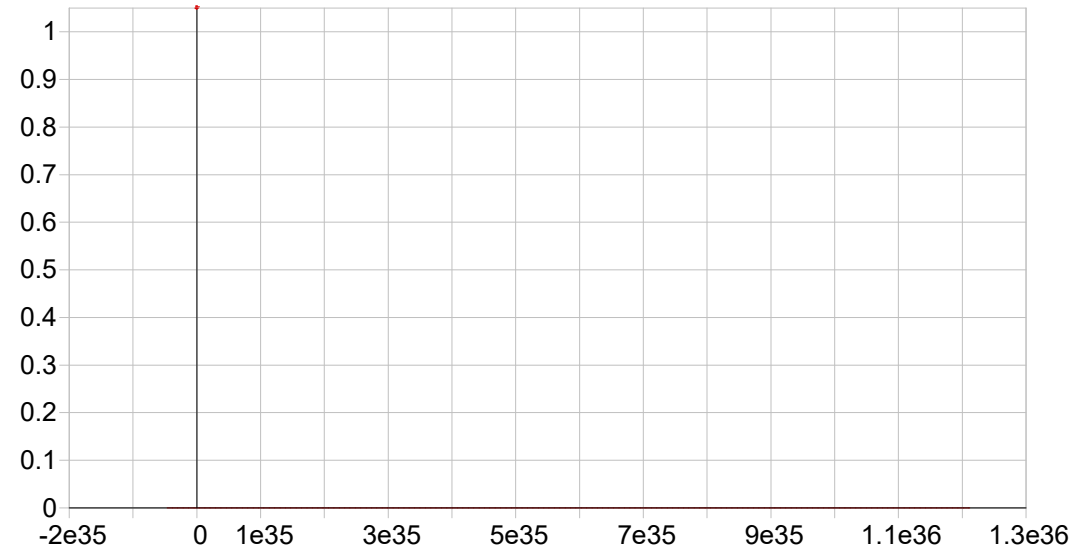
Y 371.030 { 91}*

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

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

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

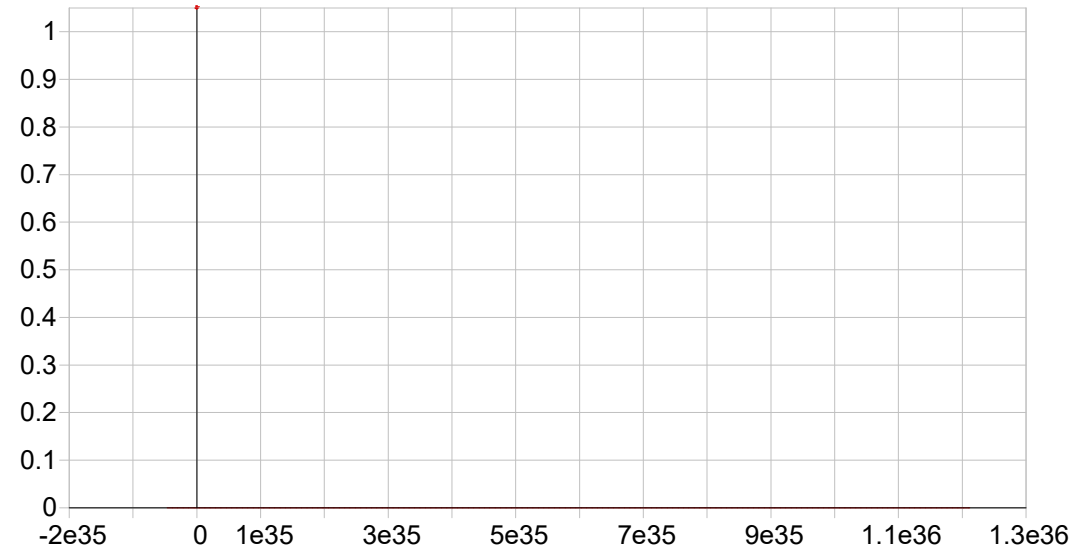
Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198



Y 224.306 {150}*

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

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



In 230.606 {446}*

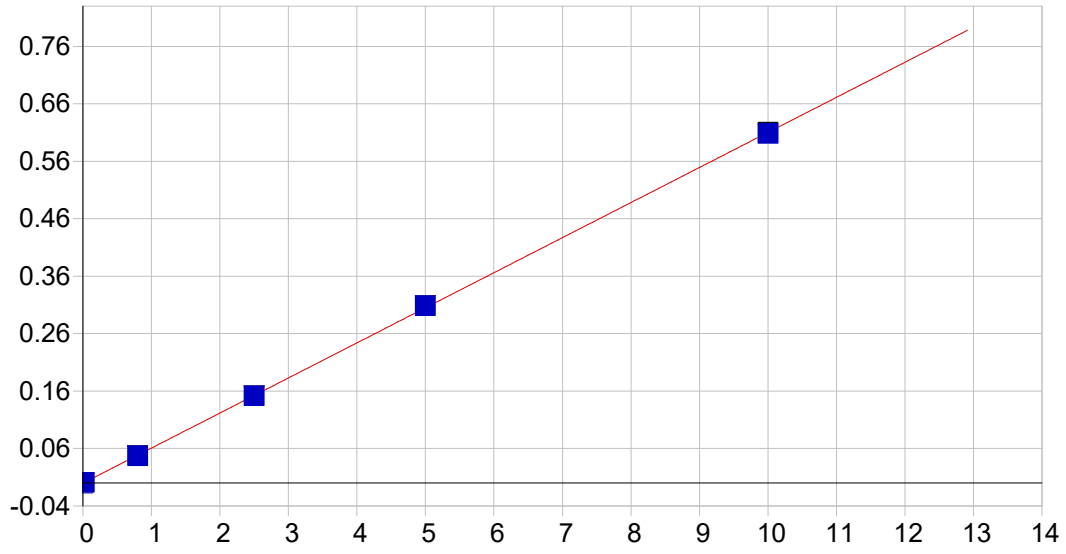
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:jaswal
On:11/6/2024 9:01:10 PM
Inst Id :P4
LB :LB133198

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:
On:
Inst Id :P4
LB :LB133365



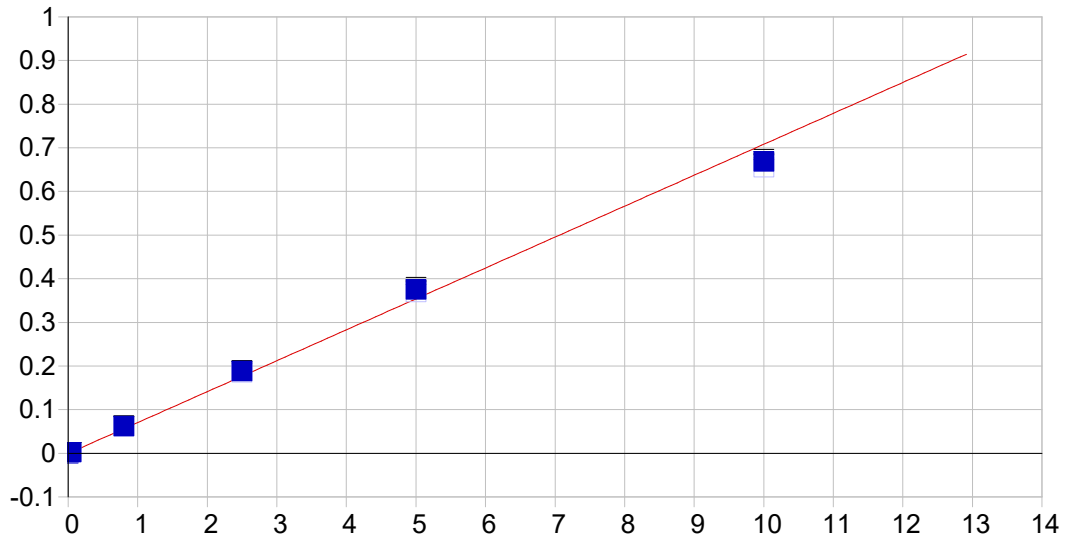
As 189.042 {479}

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:
On:
Inst Id :P4
LB :LB133365



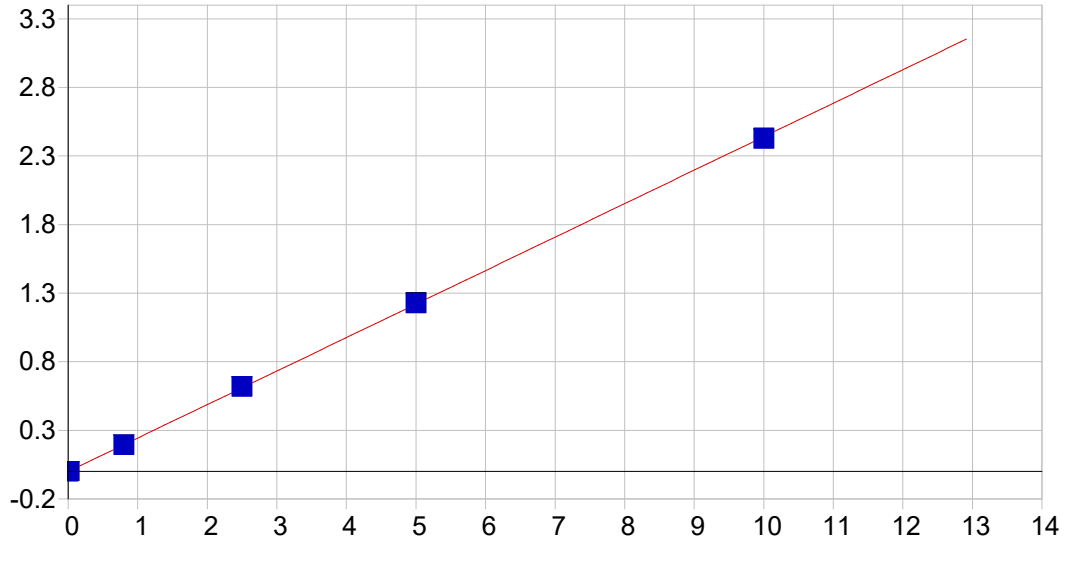
Tl 190.856 {477}

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:
On:
Inst Id :P4
LB :LB133365



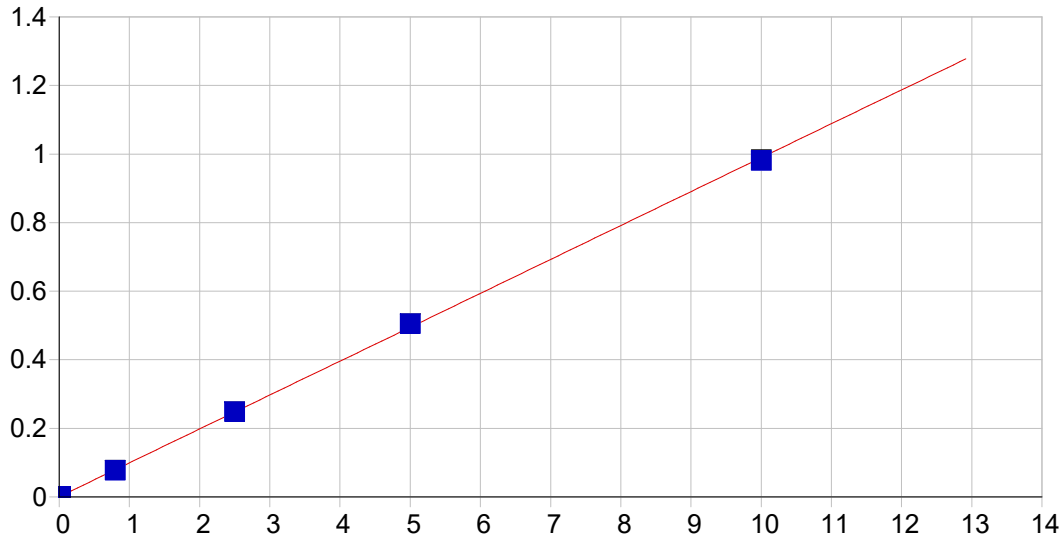
Pb 220.353 {453}

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:
On:
Inst Id :P4
LB :LB133365



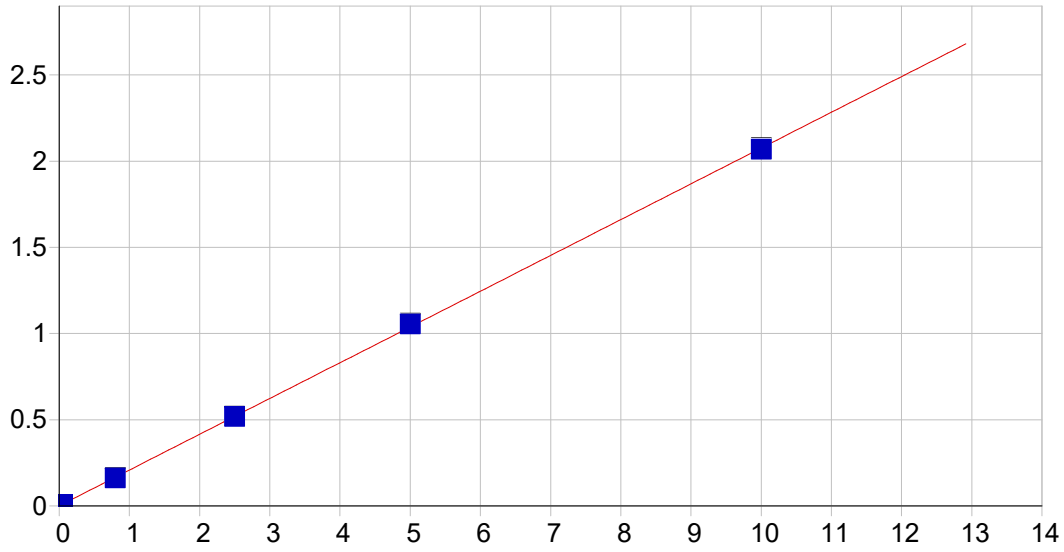
Se 196.090 {472}

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:
On:
Inst Id :P4
LB :LB133365



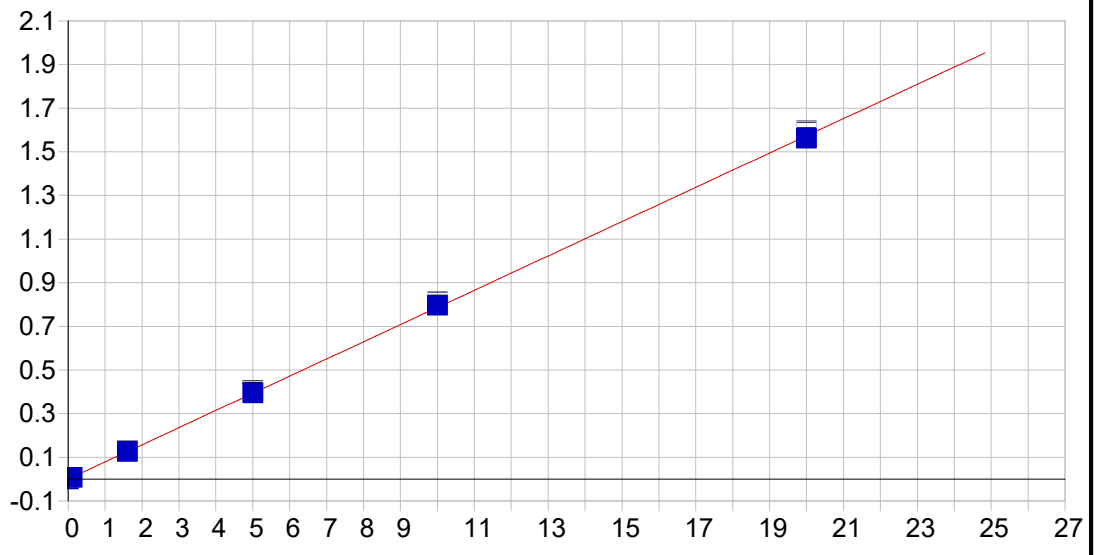
Sb 206.833 {463}

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:
On:
Inst Id :P4
LB :LB133365



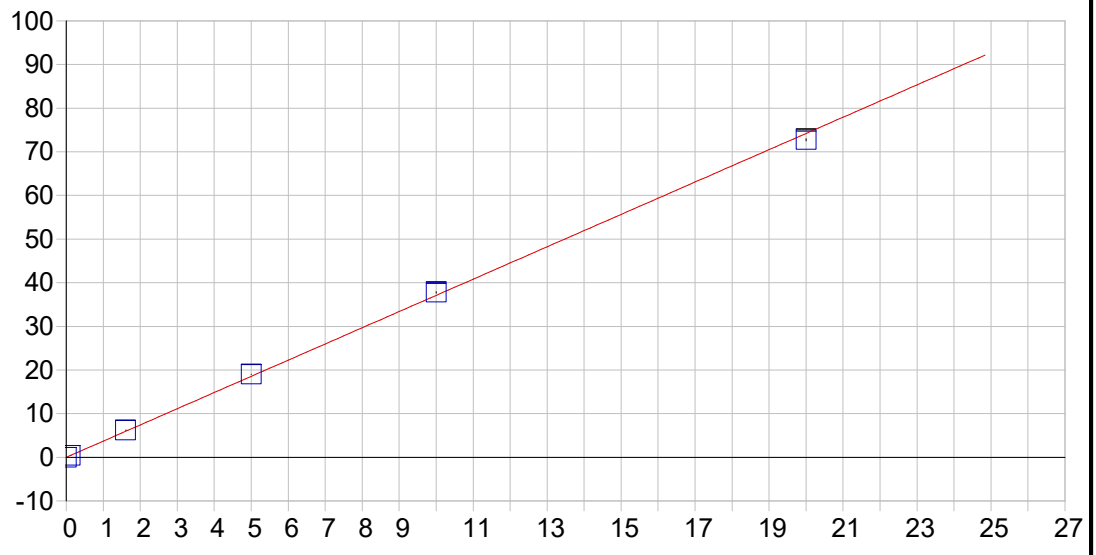
Al 396.152 { 85}

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:
On:
Inst Id :P4
LB :LB133365



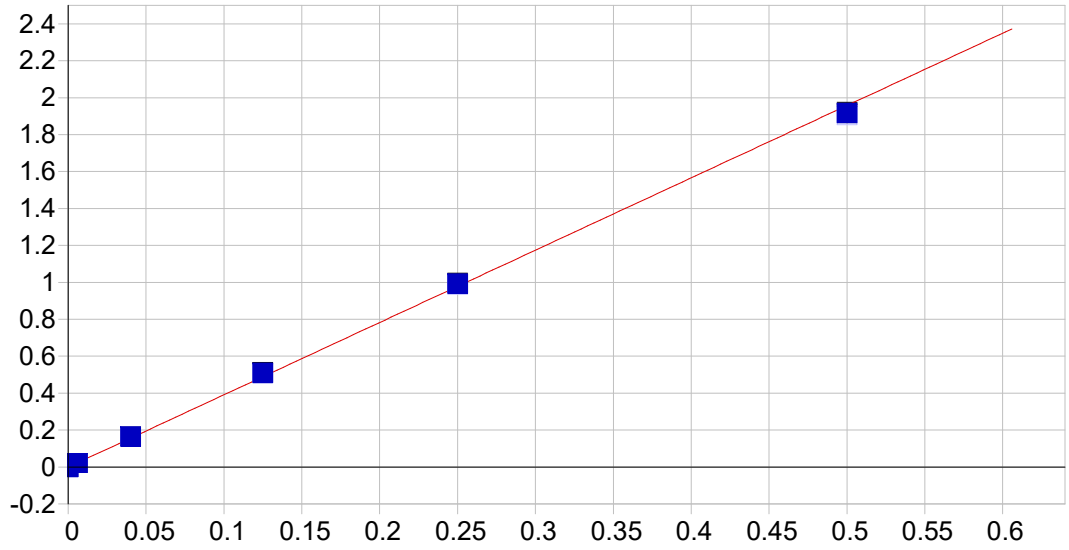
Ba 493.409 { 68}

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:
On:
Inst Id :P4
LB :LB133365



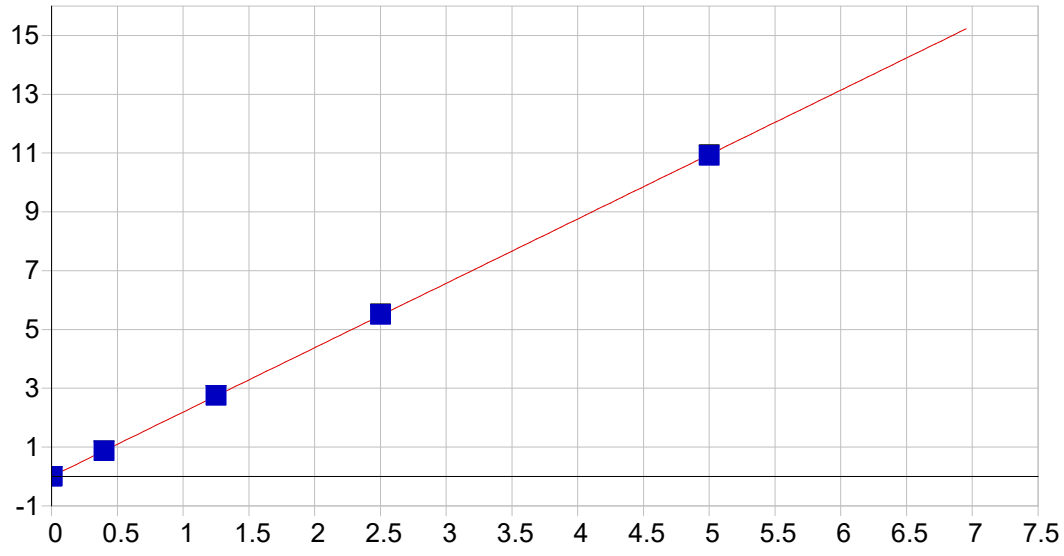
Be 234.861 {144}

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:
On:
Inst Id :P4
LB :LB133365



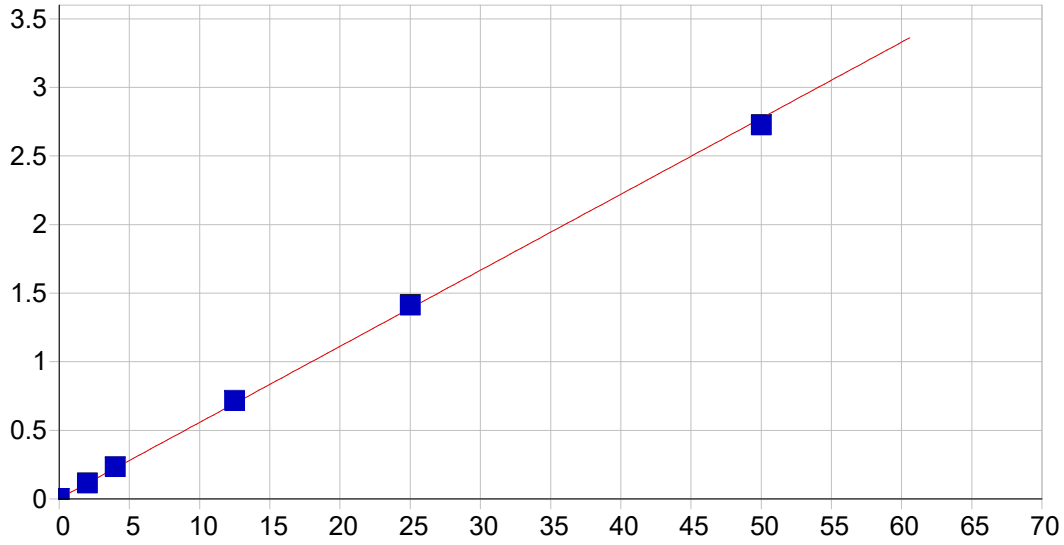
Cd 226.502 {449}

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:
On:
Inst Id :P4
LB :LB133365



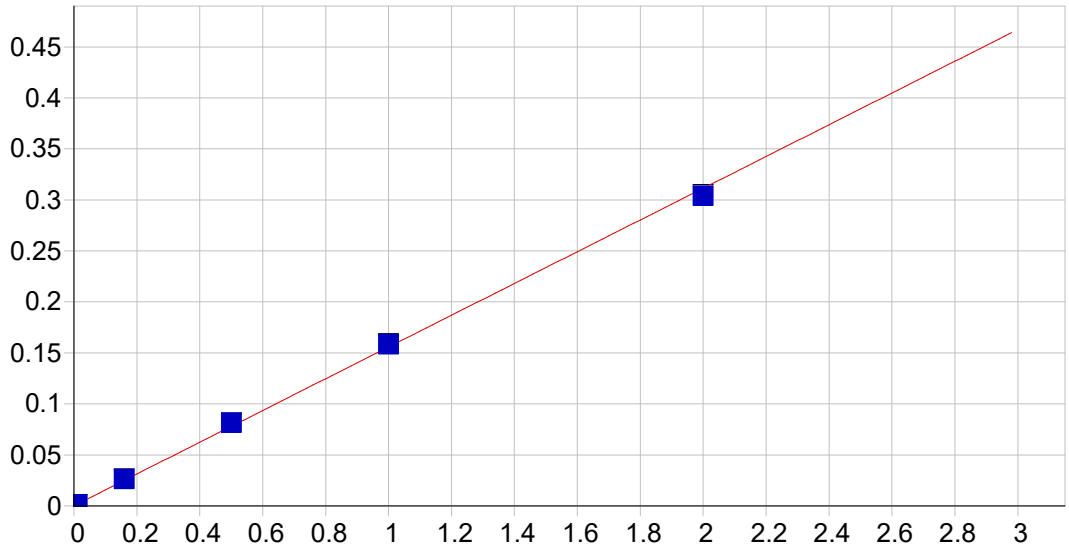
Ca 373.690 { 90}

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:
On:
Inst Id :P4
LB :LB133365



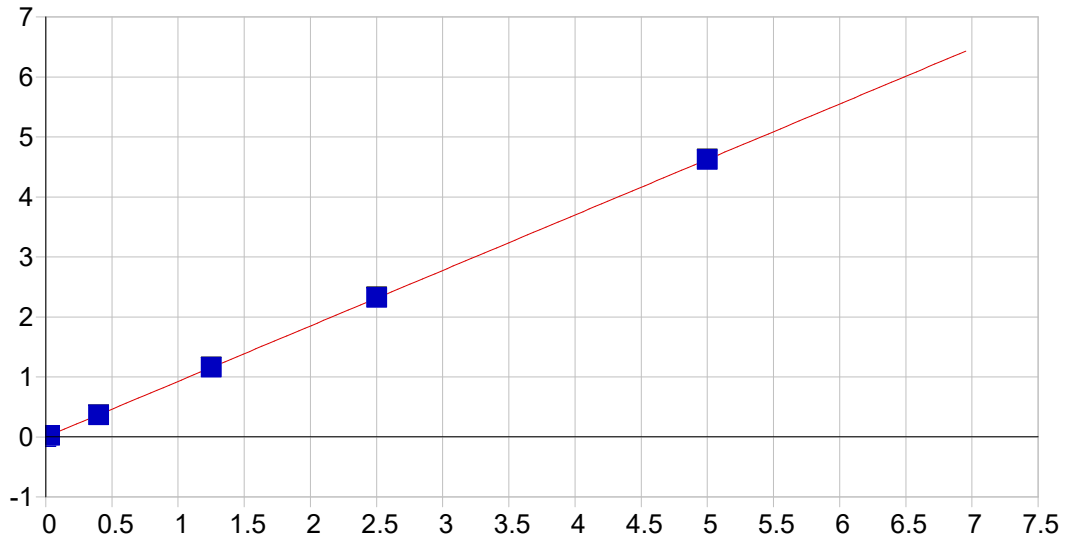
Cr 267.716 {126}

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:
On:
Inst Id :P4
LB :LB133365



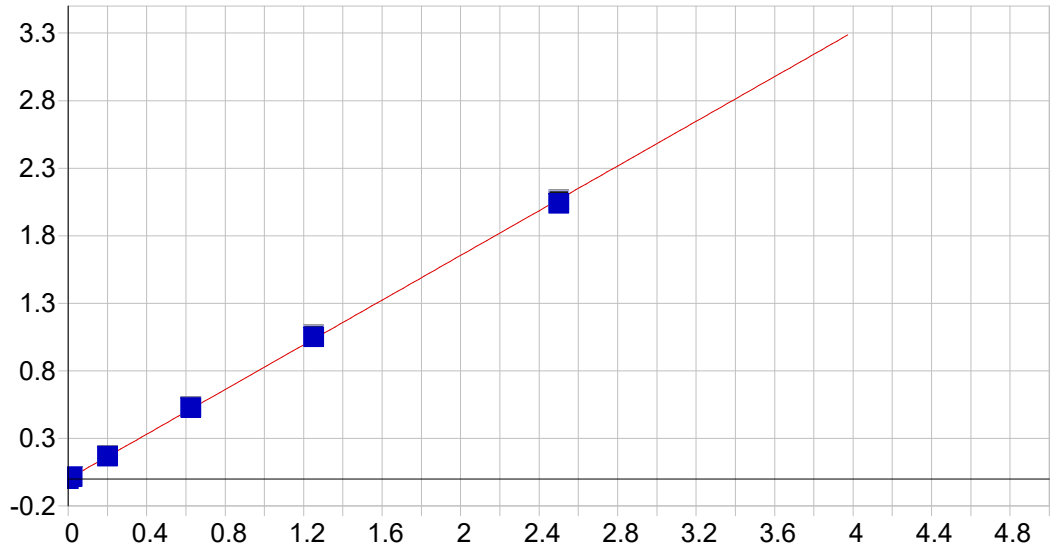
Co 228.616 {448}

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:
On:
Inst Id :P4
LB :LB133365



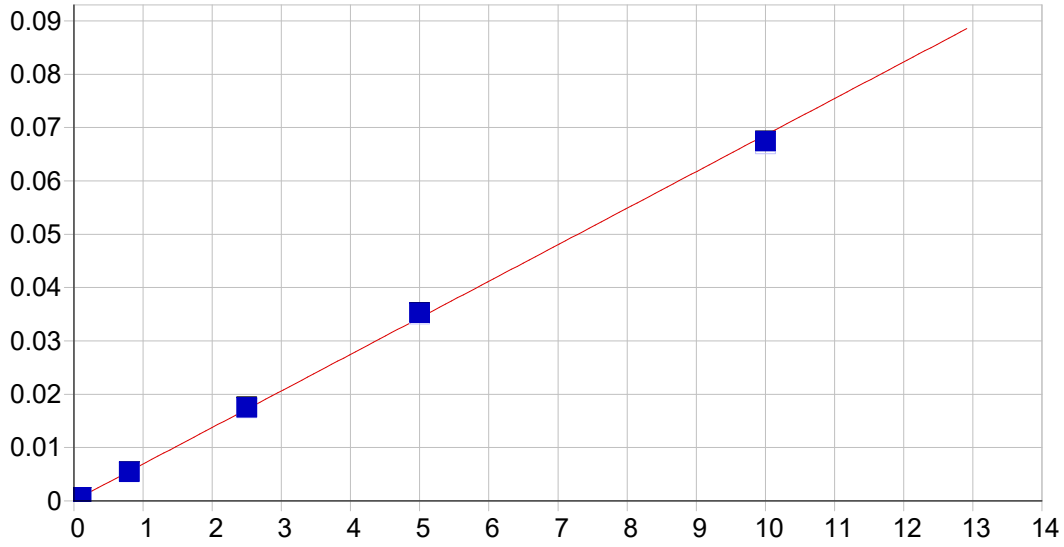
Cu 224.700 {450}

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:
On:
Inst Id :P4
LB :LB133365



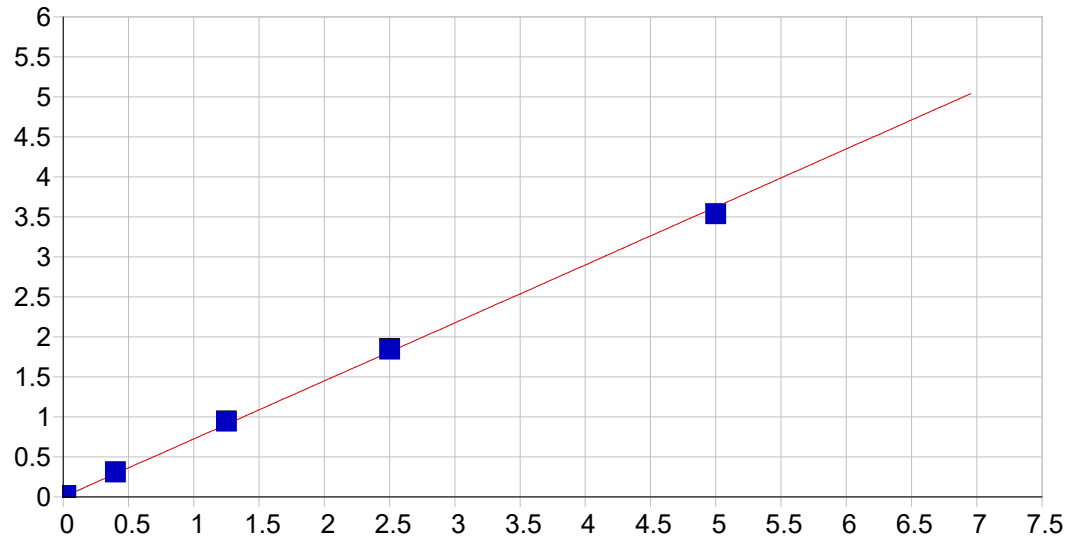
Fe 240.488 {140}

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:
On:
Inst Id :P4
LB :LB133365



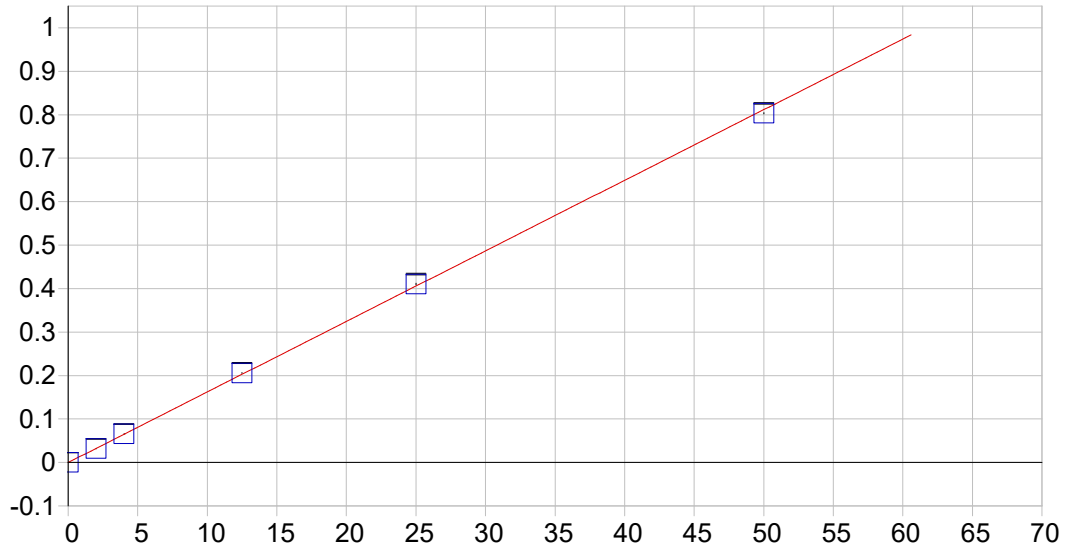
Mn 257.610 {131}

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:
On:
Inst Id :P4
LB :LB133365



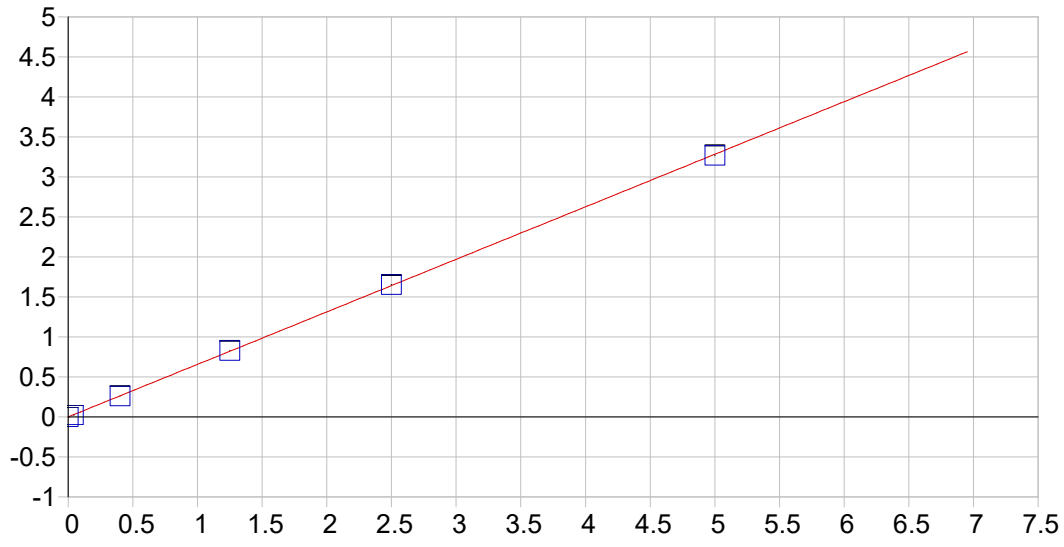
Mg 279.079 {121}

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:
On:
Inst Id :P4
LB :LB133365



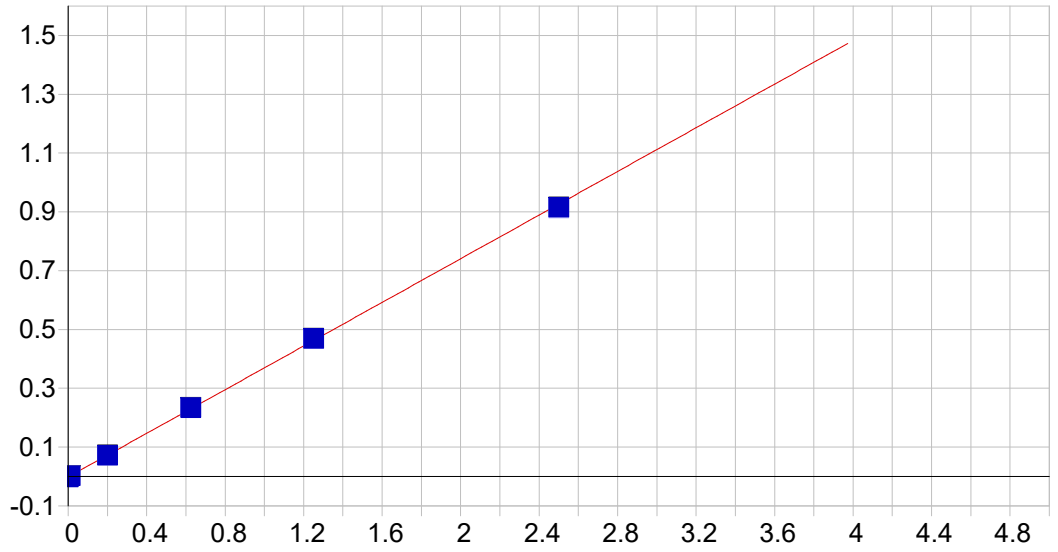
Ni 231.604 {446}

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:
On:
Inst Id :P4
LB :LB133365



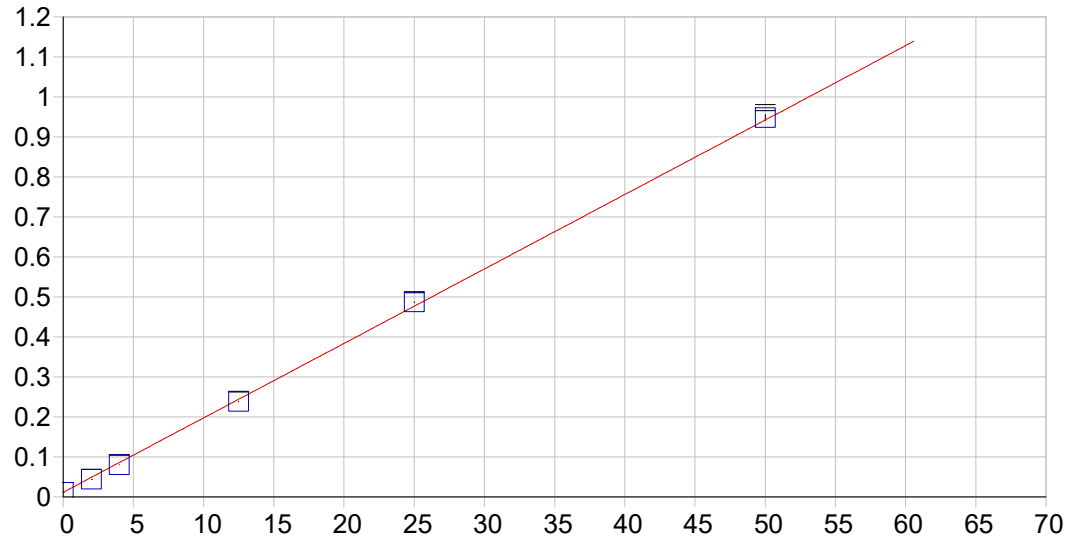
Ag 328.068 {103}

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:
On:
Inst Id :P4
LB :LB133365



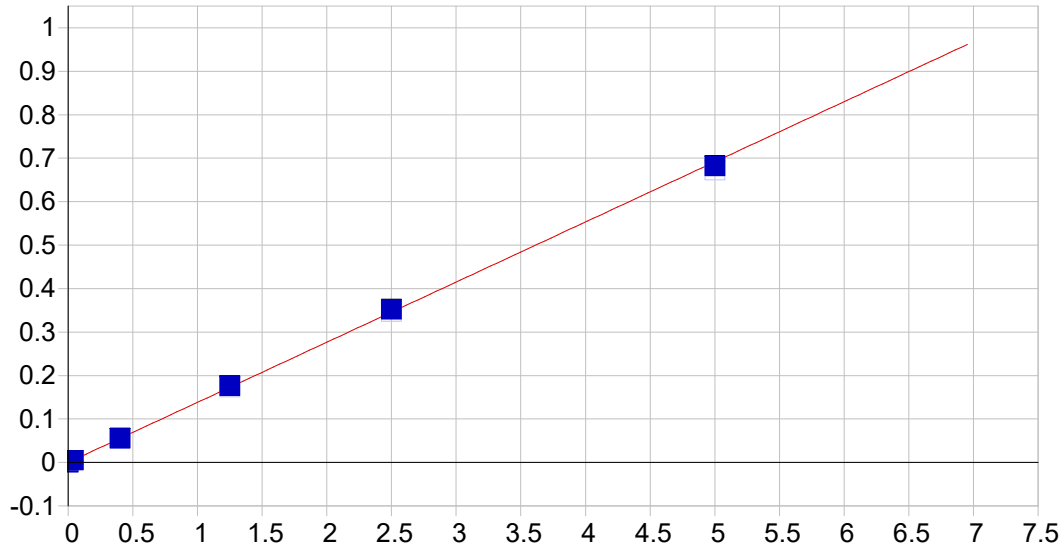
Na 589.592 { 57}

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:
On:
Inst Id :P4
LB :LB133365



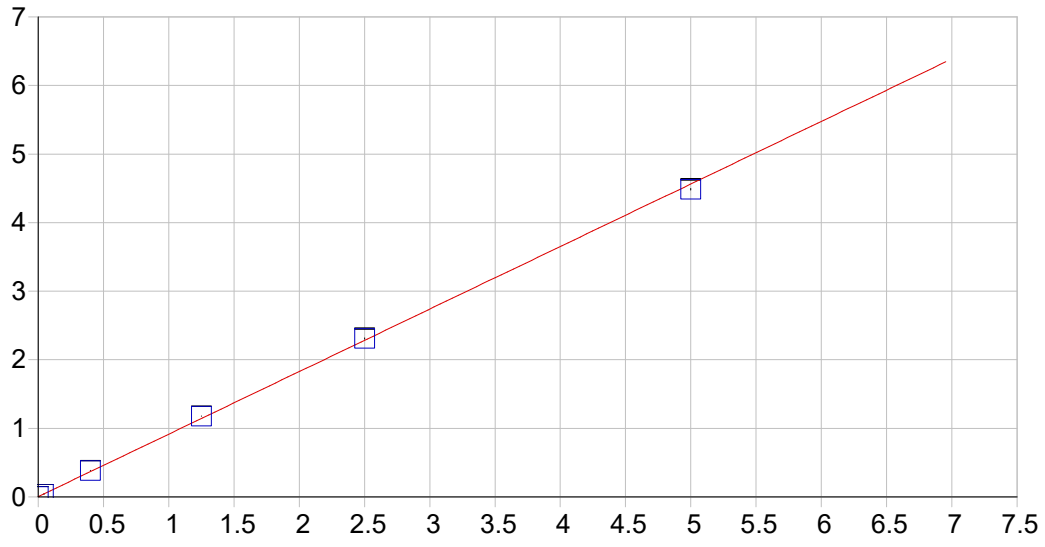
V 292.402 {115}

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:
On:
Inst Id :P4
LB :LB133365



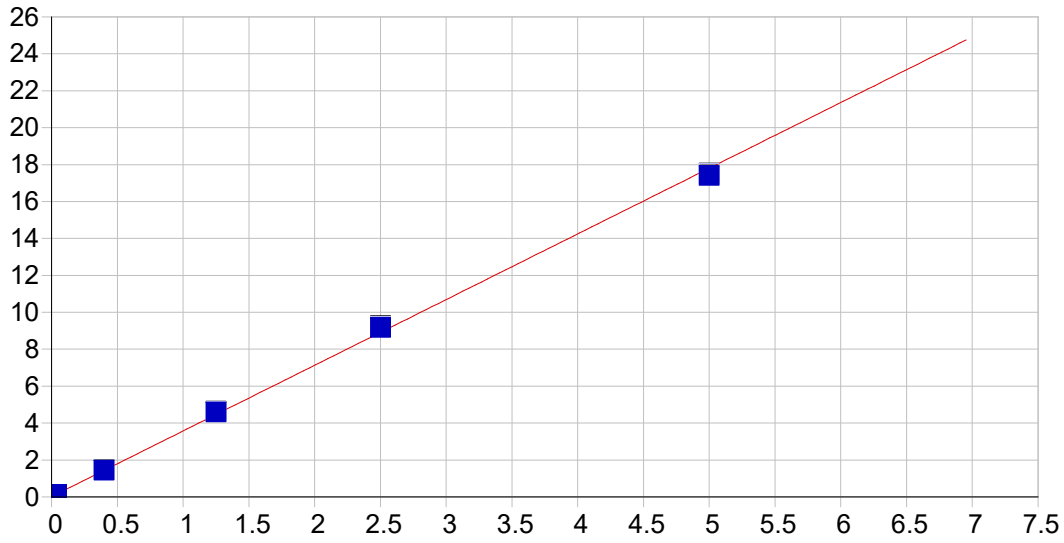
Zn 206.200 {464}

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:
On:
Inst Id :P4
LB :LB133365



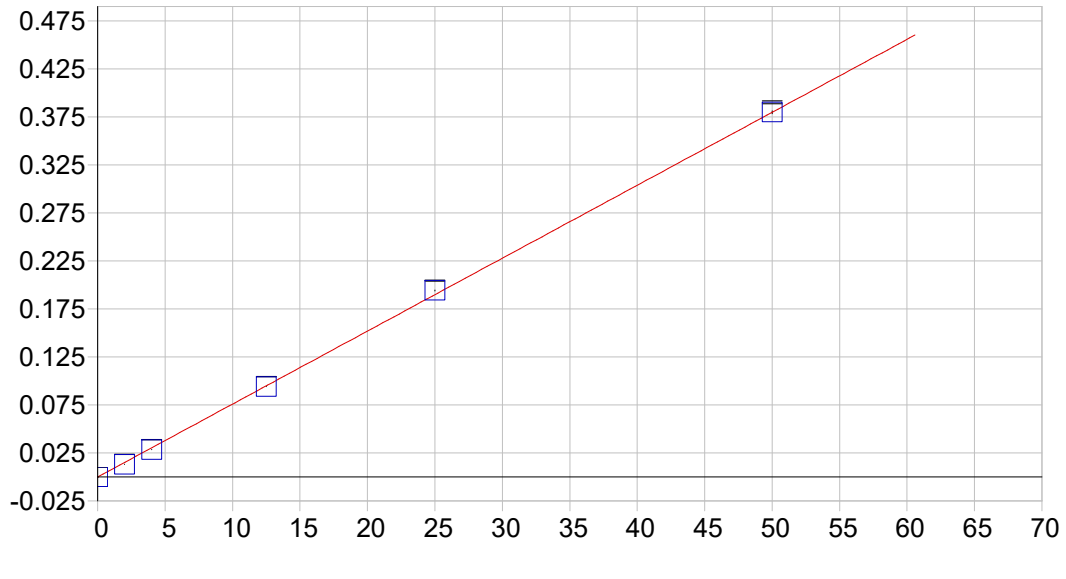
Zn 213.856 {158}

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:
On:
Inst Id :P4
LB :LB133365



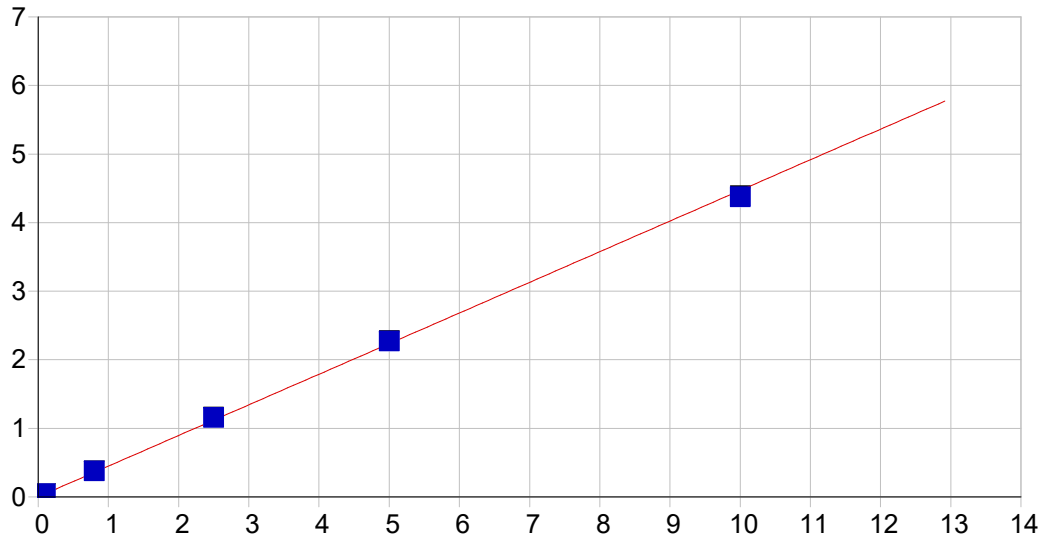
K 766.490 { 44}

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:
On:
Inst Id :P4
LB :LB133365



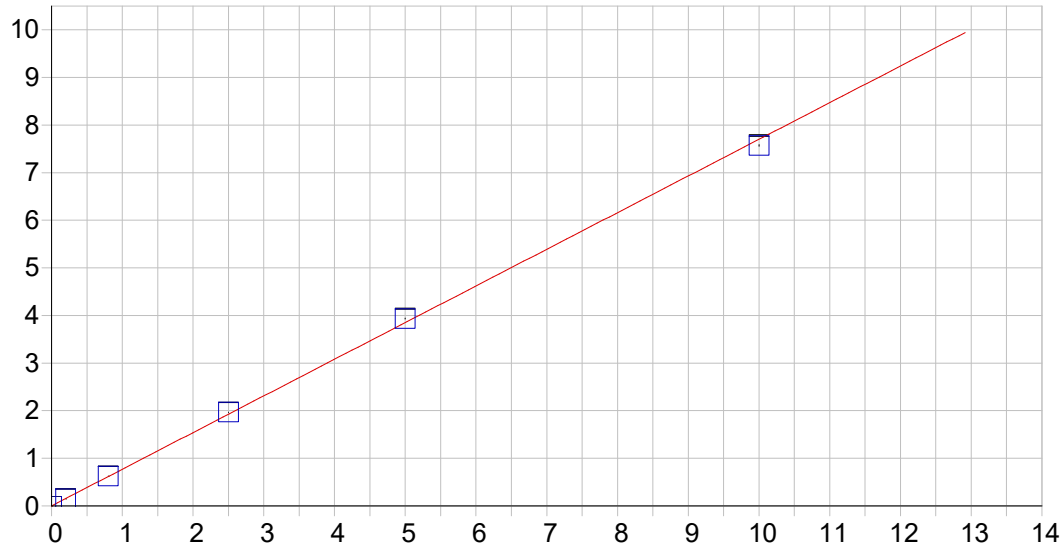
B 249.678 {135}

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:
On:
Inst Id :P4
LB :LB133365



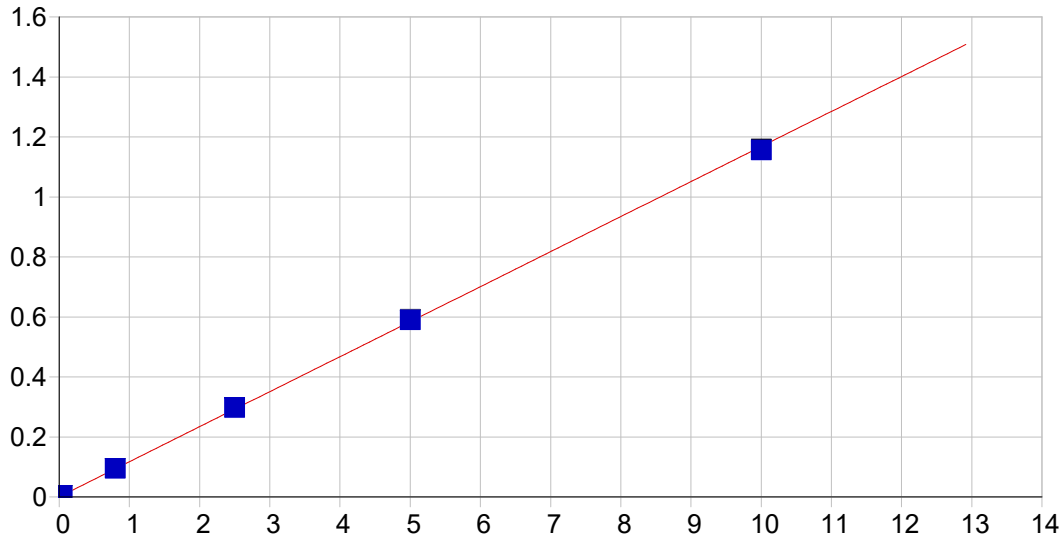
Mo 202.030 {467}

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:
On:
Inst Id :P4
LB :LB133365



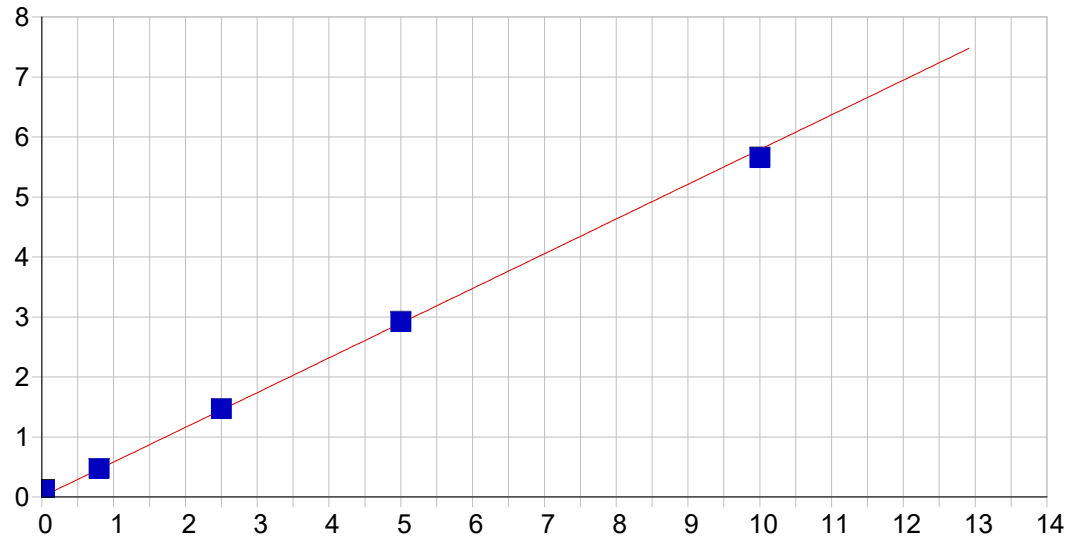
Sn 189.989 {478}

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:
On:
Inst Id :P4
LB :LB133365



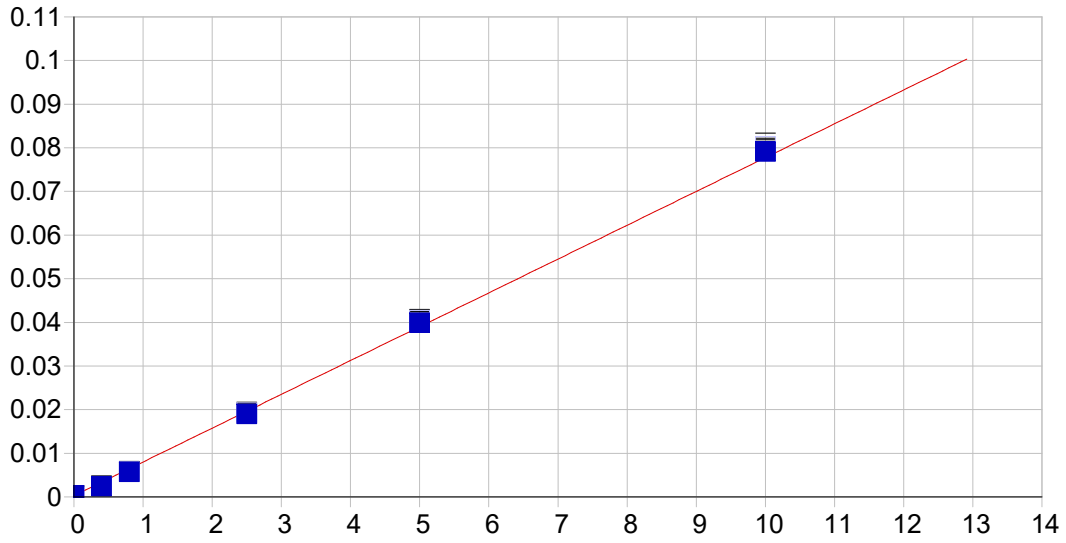
Ti 336.121 {100}

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:
On:
Inst Id :P4
LB :LB133365



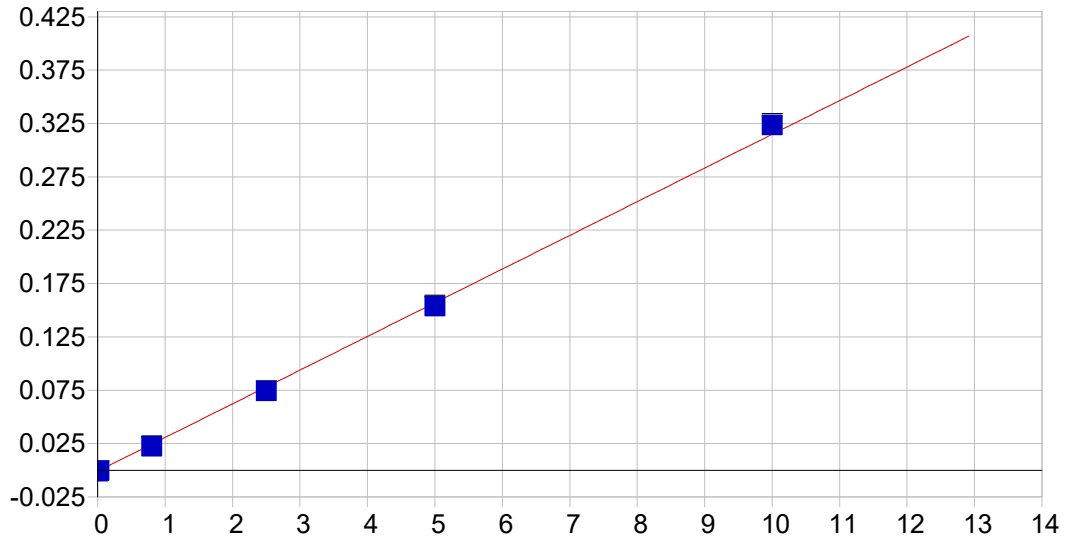
Si 288.158 {117}

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:
On:
Inst Id :P4
LB :LB133365



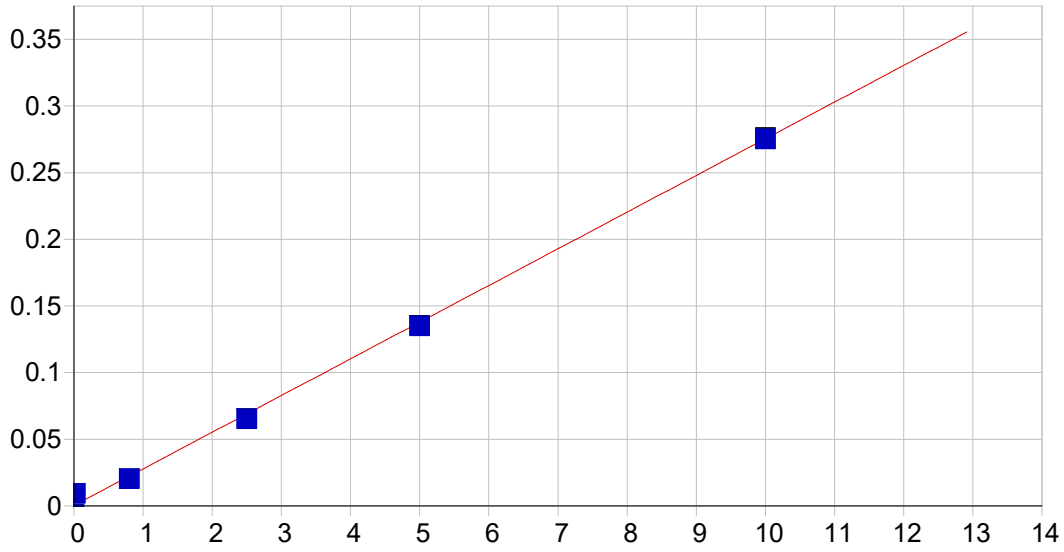
P 177.495 {490}

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:
On:
Inst Id :P4
LB :LB133365



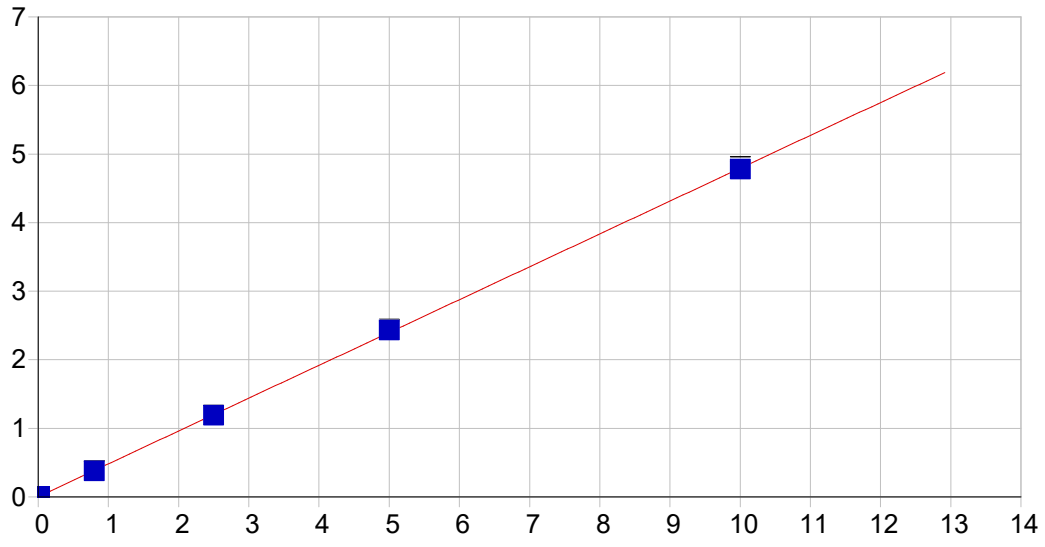
S 182.034 {485}

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:
On:
Inst Id :P4
LB :LB133365



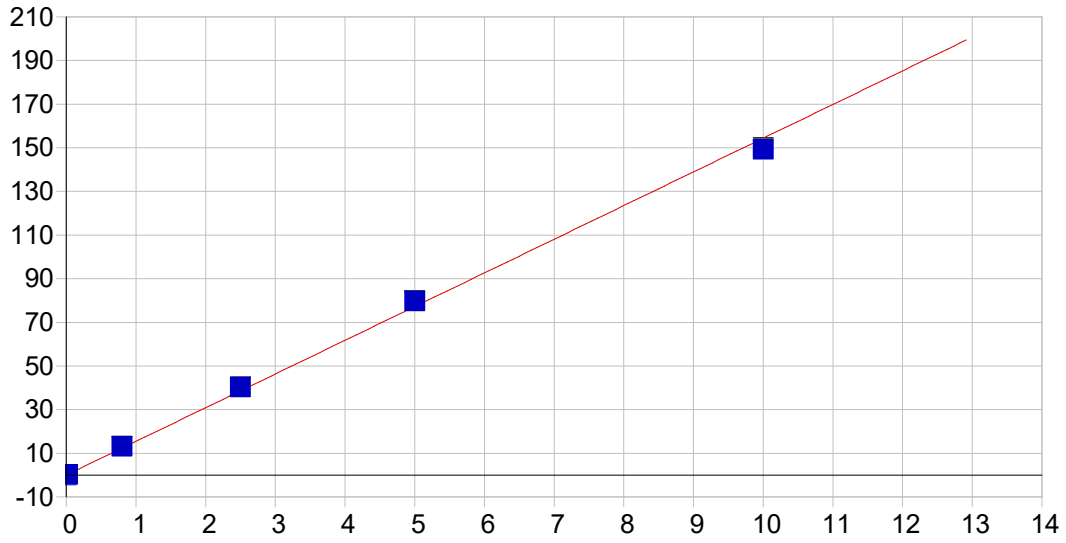
Li 670.784 { 50}

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:
On:
Inst Id :P4
LB :LB133365



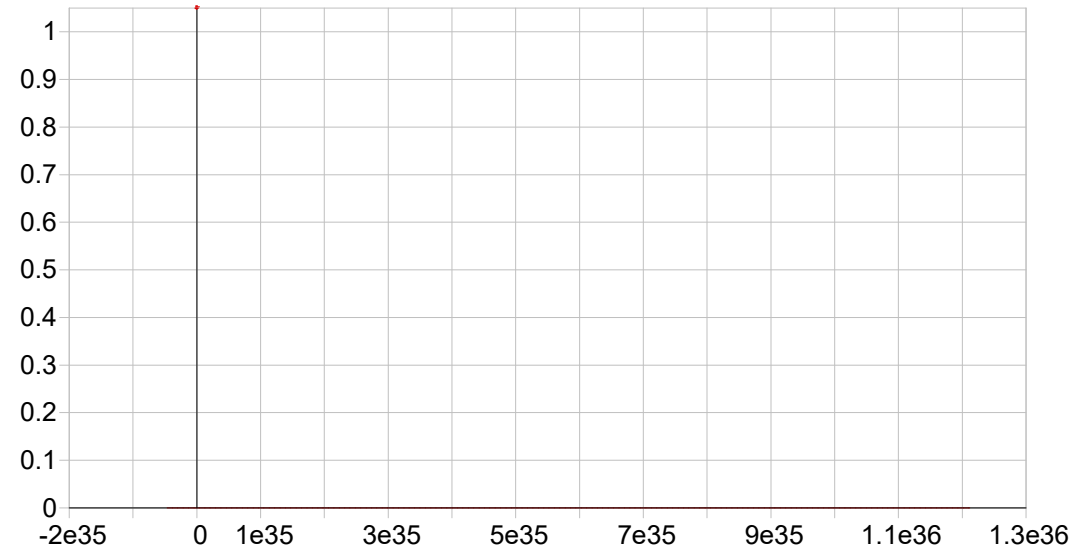
Sr 407.771 { 83}

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:
On:
Inst Id :P4
LB :LB133365

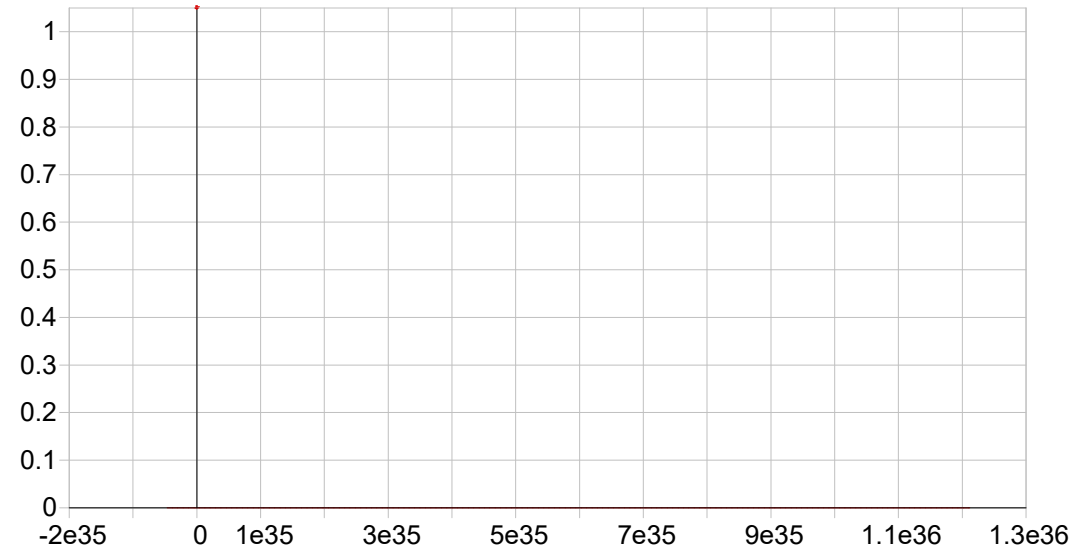


Y 224.306 {450}*

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}*

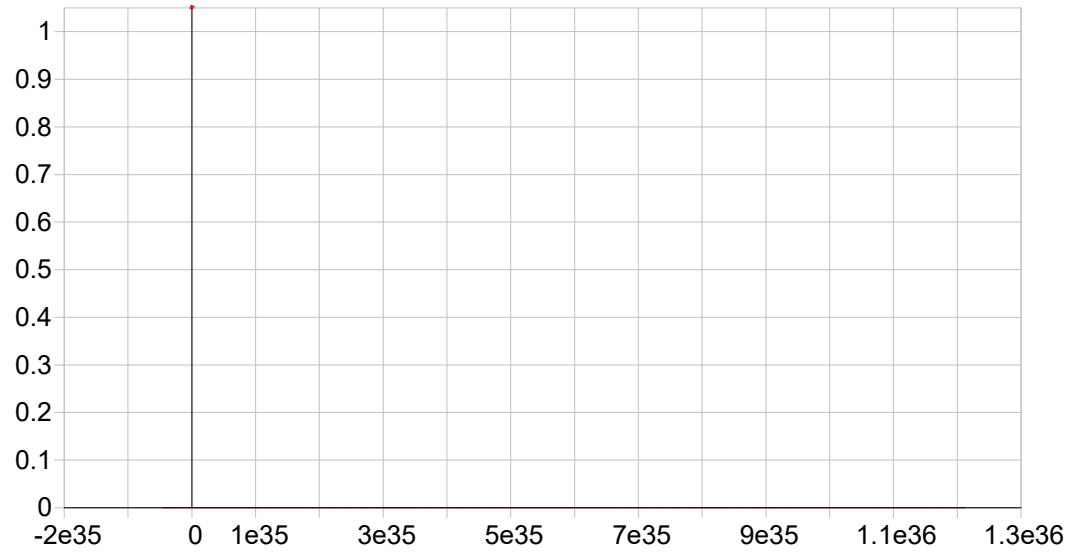
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:
On:
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

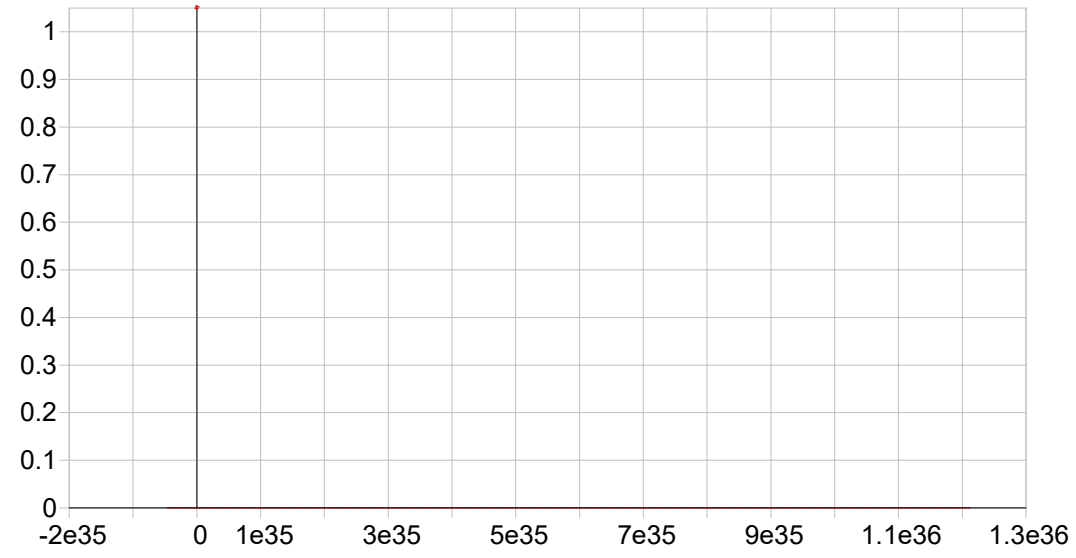


Y 371.030 { 91}*

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:
On:
Inst Id :P4
LB :LB133365

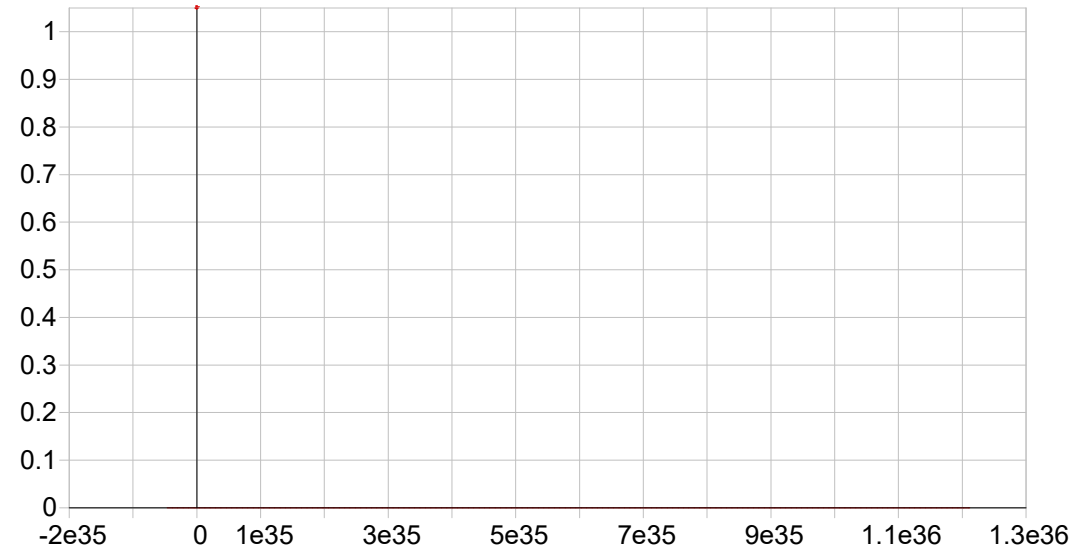


Y 224.306 {150}*

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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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:
On:
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

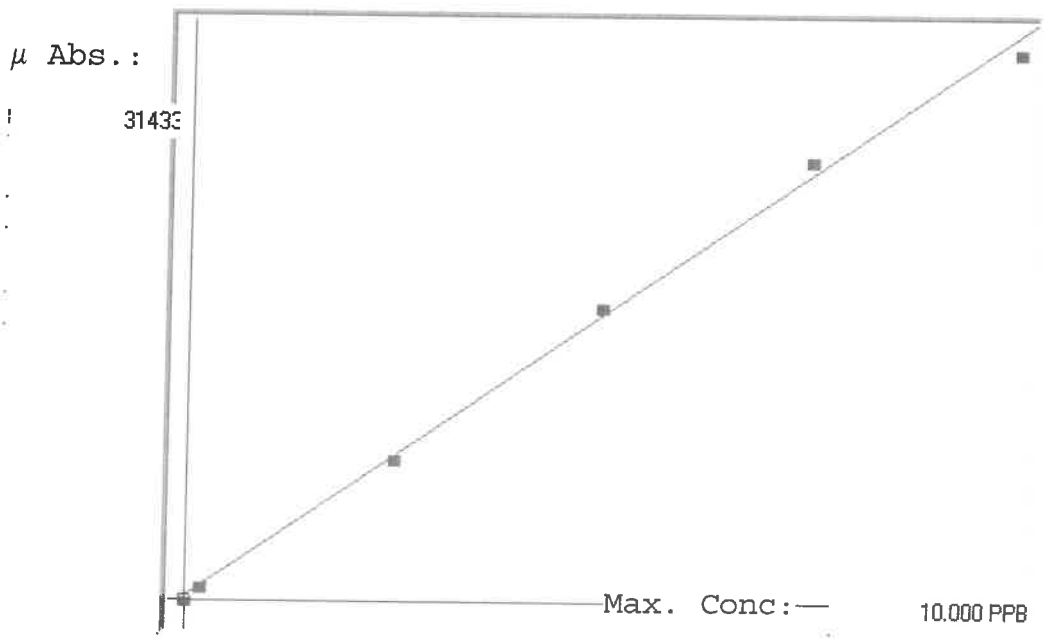
Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3552.141	70371.06	13950.95	2508.308	5725.470
Stddev	3.240	99.28	11.07	25.351	11.532
%RSD	.0912102	.1410870	.0793596	1.010671	.2014090
#1	3554.744	70265.74	13953.72	2503.512	5729.331
#2	3553.166	70384.50	13938.76	2485.698	5712.504
#3	3548.512	70462.94	13960.38	2535.714	5734.577

Reviewed By:mohan
On:10/29/2024
12:32:27 AM
Inst Id :CV1
LB :LB133167

LB133167

7470A / INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 3.1132e-004

C= -7.4019e-002

Rho= 0.9988463

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	C/, D
0.0	0.000	-0.080	-0.080	-18	0.000	-18	0				-9
0.2	0.200	0.183	-0.017	825	0.0 %	825					-2
2.5	2.500	2.458	-0.042	8133	0.0 %	8133					3
5.0	5.000	5.160	0.160	16813	0.0 %	16813					4
7.5	7.500	7.767	0.267	25186	0.0 %	25186					-3
10.0	10.000	9.712	-0.288	31433	0.0 %	31433					

Reviewed By:mohan
On:10/29/2024
12:32:27 AM
Inst Id :CV1
LB :LB133167

LB133167 INSTRUMENT ID : CV1

Method: 7470A Operator: Admin Date of Analysis: 28 Oct 2024 10:41:11

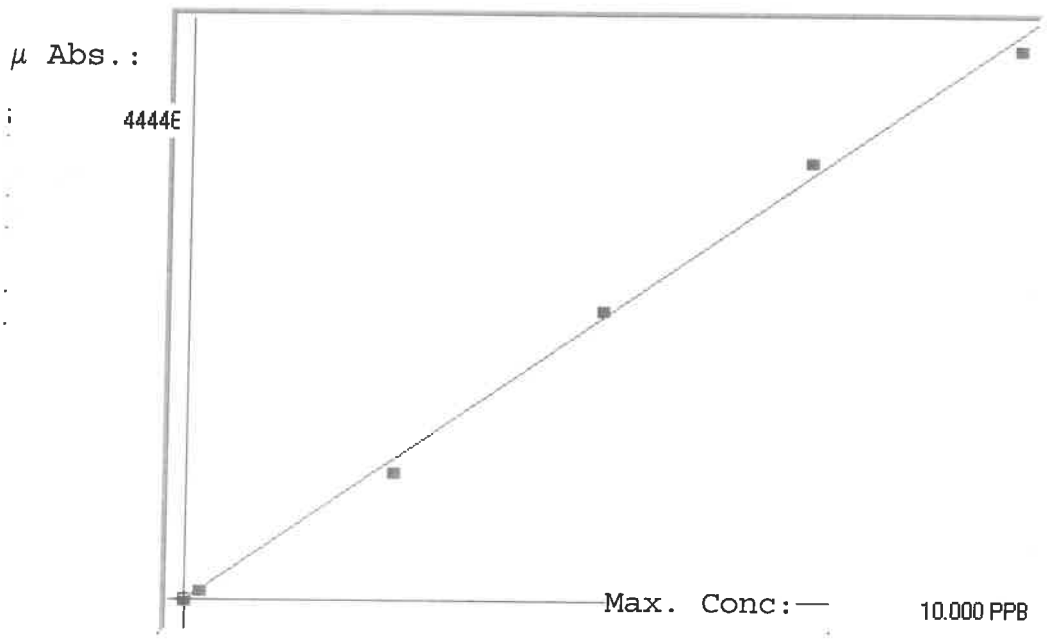
Sample ID	Extended ID	µ Abs	Conc	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	S0	-18	-	0.00000	7470A	PPB	28 Oct 2024 10:44:16	S	Std
0.2 - 1	S0-2	825	-	0.20000	7470A	PPB	28 Oct 2024 10:51:28	S	Std
2.5 - 1	S2.5	8133	-	2.50000	7470A	PPB	28 Oct 2024 10:53:45	S	Std
5.0 - 1	S5	16813	-	5.00000	7470A	PPB	28 Oct 2024 10:56:02	S	Std
7.5 - 1	S7.5	25186	-	7.50000	7470A	PPB	28 Oct 2024 11:01:03	S	Std
10.0 - 1	S10	31433	-	10.00000	7470A	PPB	28 Oct 2024 11:05:55	S	Std
ICV55 - 1	ICV55	12127	3.7014		7470A	PPB	28 Oct 2024 11:09:29	U	SMPL
ICB55 - 1	ICB55	-64	-0.0939		7470A	PPB	28 Oct 2024 11:14:18	U	SMPL
CCV79 - 1	CCV79	17032	5.2284		7470A	PPB	28 Oct 2024 11:16:32	U	SMPL
CCB79 - 1	CCB79	86	-0.0472		7470A	PPB	28 Oct 2024 11:21:22	U	SMPL
CRA - 1	CRA	804	0.1763		7470A	PPB	28 Oct 2024 11:23:37	U	SMPL
HighStd - 1	HighStd	30915	9.5505		7470A	PPB	28 Oct 2024 11:25:51	U	SMPL
ChkStd - 1	ChkStd	22638	6.9737		7470A	PPB	28 Oct 2024 11:28:07	U	SMPL
PB164472BL - 1	PBW	16	-0.0690		7470A	PPB	28 Oct 2024 11:32:59	U	SMPL
PB164472BS - 1	LCSW	12719	3.8857		7470A	PPB	28 Oct 2024 11:35:15	U	SMPL
P4549-02 - 1	TT-067-IDWGW-20241024	-169	-0.1266		7470A	PPB	28 Oct 2024 11:37:31	U	SMPL
P4549-02DUP - 1	TT-067-IDWGW-20241024DUP	124	-0.0354		7470A	PPB	28 Oct 2024 11:39:48	U	SMPL
P4549-02MS - 1	TT-067-IDWGW-20241024MS	13399	4.0974		7470A	PPB	28 Oct 2024 11:42:06	U	SMPL
P4549-02MSD - 1	TT-067-IDWGW-20241024MSD	12159	3.7113		7470A	PPB	28 Oct 2024 11:44:24	U	SMPL
P4549-03 - 1	TT-068-IDWGW-20241024	394	0.0486		7470A	PPB	28 Oct 2024 11:46:41	U	SMPL
CCV80 - 1	CCV80	16123	4.9454		7470A	PPB	28 Oct 2024 11:48:58	U	SMPL
CCB80 - 1	CCB80	117	-0.0376		7470A	PPB	28 Oct 2024 11:53:49	U	SMPL
P4549-04 - 1	TT-069-IDWGW-20241024	76	-0.0504		7470A	PPB	28 Oct 2024 11:56:03	U	SMPL
P4564-01 - 1	100324	17	-0.0687		7470A	PPB	28 Oct 2024 11:58:18	U	SMPL
P4578-01 - 1	WB-305-SW	-186	-0.1319		7470A	PPB	28 Oct 2024 12:00:33	U	SMPL
P4578-02 - 1	WB-305-SW-1	24	-0.0665		7470A	PPB	28 Oct 2024 12:02:49	U	SMPL
P4549-02LX5 - 1		-24	-0.0815		7470A	PPB	28 Oct 2024 12:05:05	U	SMPL
P4549-02A - 1		12725	3.8875		7470A	PPB	28 Oct 2024 12:07:21	U	SMPL
CCV81 - 1	CCV81	16246	4.9837		7470A	PPB	28 Oct 2024 12:09:37	U	SMPL
CCB81 - 1	CCB81	79	-0.0494		7470A	PPB	28 Oct 2024 12:14:26	U	SMPL

Reviewed By:mohan
On:10/30/2024
12:42:51 AM
Inst Id :CV1
LB :LB133185

LB133185

7471B INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.1900e-004

C= 2.0230e-002

Rho= 0.9987532

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	0.023	0.023	11	0.000	11					1
0.2	0.200	0.215	0.015	889	0.0 %	889					7
2.5	2.500	2.285	-0.215	10342	0.0 %	10342					-9
5.0	5.000	5.154	0.154	23440	0.0 %	23440					3
7.5	7.500	7.769	0.269	35384	0.0 %	35384					4
10.0	10.000	9.754	-0.246	44446	0.0 %	44446					-2

Reviewed By:mohan
On:10/30/2024
12:42:51 AM
Inst Id :CV1
LB :LB133185

LB133185 INSTRUMENT ID : CV1

Method: 7471B Operator: Admin Date of Analysis: 29 Oct 2024 10:07:32

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	50	11	-	0.00007	471B	PPB	29 Oct 2024 10:10:33	S	Std
0.2 - 1	502	889	-	0.20007	471B	PPB	29 Oct 2024 10:12:51	S	Std
2.5 - 1	52.5	10342	-	2.50007	471B	PPB	29 Oct 2024 10:15:07	S	Std
5.0 - 1	35	23440	-	5.00007	471B	PPB	29 Oct 2024 10:17:24	S	Std
7.5 - 1	57.5	35384	-	7.50007	471B	PPB	29 Oct 2024 10:19:42	S	Std
10.0 - 1	510	44446	-	10.00007	471B	PPB	29 Oct 2024 10:29:33	S	Std
ICV57 - 1	ICV57	18909	4.1614		7471B	PPB	29 Oct 2024 10:32:20	U	SMPL
ICB57 - 1	ICB57	-370	-0.0608		7471B	PPB	29 Oct 2024 10:34:36	U	SMPL
CCV86 - 1	CCV86	23331	5.1298		7471B	PPB	29 Oct 2024 10:36:54	U	SMPL
CCB86 - 1	CCB86	-414	-0.0704		7471B	PPB	29 Oct 2024 10:39:08	U	SMPL
CRA - 1	CRA	805	0.1965		7471B	PPB	29 Oct 2024 10:41:26	U	SMPL
HighStd - 1	HighStd	44910	9.8557		7471B	PPB	29 Oct 2024 10:43:40	U	SMPL
ChkStd - 1	ChkStd	32476	7.1326		7471B	PPB	29 Oct 2024 10:45:55	U	SMPL
PB164487BL - 1	PBS	-427	-0.0733		7471B	PPB	29 Oct 2024 10:48:16	U	SMPL
PB164487BS - 1	LCSS	15933	3.5096		7471B	PPB	29 Oct 2024 10:50:37	U	SMPL
P4574-01 - 1	GRAVEL-1	-55	0.0082		7471B	PPB	29 Oct 2024 10:52:53	U	SMPL
P4574-01DUP - 1	GRAVEL-1DUP	81	0.0380		7471B	PPB	29 Oct 2024 10:55:14	U	SMPL
P4574-01MS - 1	GRAVEL-1MS	18535	4.0795		7471B	PPB	29 Oct 2024 10:57:31	U	SMPL
P4574-01MSD - 1	GRAVEL-1MSD	18788	4.1349		7471B	PPB	29 Oct 2024 10:59:48	U	SMPL
P4574-04 - 1	GRAVEL-2	368	0.1008		7471B	PPB	29 Oct 2024 11:02:05	U	SMPL
CCV87 - 1	CCV87	23549	5.1776		7471B	PPB	29 Oct 2024 11:04:23	U	SMPL
CCB87 - 1	CCB87	-396	-0.0665		7471B	PPB	29 Oct 2024 11:06:38	U	SMPL
P4574-07 - 1	CONCRETE-1	59	0.0332		7471B	PPB	29 Oct 2024 11:08:56	U	SMPL
P4574-09 - 1	CONCRETE-2	-11	0.0178		7471B	PPB	29 Oct 2024 11:11:12	U	SMPL
P4574-11 - 1	CONCRETE-3	197	0.0634		7471B	PPB	29 Oct 2024 11:13:27	U	SMPL
P4575-01 - 1	PL-02-102424	9114	2.0162		7471B	PPB	29 Oct 2024 11:15:42	U	SMPL
P4577-01 - 1	TR-05-102524	4314	0.9650		7471B	PPB	29 Oct 2024 11:17:58	U	SMPL
P4578-03 - 1	WB-305-TOP	169263	37.0896		7471B	PPB	29 Oct 2024 11:20:17	U	SMPL
P4578-04 - 1	WB-305-TOP-1	133265	29.2058		7471B	PPB	29 Oct 2024 11:22:36	U	SMPL
P4578-05 - 1	WB-305-BOT	4440	0.9926		7471B	PPB	29 Oct 2024 11:25:15	U	SMPL
P4578-07 - 1	WB-305-BOT-1	2202	0.5025		7471B	PPB	29 Oct 2024 11:27:53	U	SMPL
P4594-01 - 1	TP-4	3	0.0209		7471B	PPB	29 Oct 2024 11:30:10	U	SMPL
CCV88 - 1	CCV88	24018	5.2803		7471B	PPB	29 Oct 2024 11:32:27	U	SMPL
CCB88 - 1	CCB88	-179	-0.0190		7471B	PPB	29 Oct 2024 11:34:43	U	SMPL
P4594-05 - 1	BP-F17	591	0.1497		7471B	PPB	29 Oct 2024 11:37:01	U	SMPL
P4594-09 - 1	BP-F16	594	0.1503		7471B	PPB	29 Oct 2024 11:39:16	U	SMPL
P4594-13 - 1	TP-5	23	0.0253		7471B	PPB	29 Oct 2024 11:41:31	U	SMPL
P4594-17 - 1	BP-F15	213	0.0669		7471B	PPB	29 Oct 2024 11:43:47	U	SMPL
P4595-01 - 1	PITKIN-COMP	12028	2.6544		7471B	PPB	29 Oct 2024 11:46:02	U	SMPL
P4574-01LX5 - 1		-281	-0.0413		7471B	PPB	29 Oct 2024 11:48:18	U	SMPL
P4574-01A - 1		17102	3.7656		7471B	PPB	29 Oct 2024 11:50:37	U	SMPL
P4578-03DLX10 - 1		17872	3.9343		7471B	PPB	29 Oct 2024 11:52:53	U	SMPL
P4578-04DLX10 - 1		11625	2.5662		7471B	PPB	29 Oct 2024 11:55:13	U	SMPL
CCV89 - 1	CCV89	23913	5.2573		7471B	PPB	29 Oct 2024 11:57:31	U	SMPL
CCB89 - 1	CCB89	-261	-0.0369		7471B	PPB	29 Oct 2024 11:59:48	U	SMPL

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164415

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 10/25/2024 **Time :** 16:15 **Temp :** 95 °C

End Digest Date: 10/25/2024 **Time :** 18:25 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: JSP

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6000
LFS-2	1.00	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
1:1 HNO3	10.00	MP81119
Conc. HNO3	5.00	M6097
30% H2O2	3.00	M5634
CONC: HCL	10.00	M6040
PTFE Boiling Stones	N/A	M5585
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

Hot Block # 3 Cell # 35 Temp: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/25/24 18:30	JSP / Met dig.	Metals Lab
	Preparation Group	Analysts Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164415

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4531-01	OR-03-102424	N/A	2.46	100	Brown	Yellow	Medium	N/A	N/A	1
P4545-01	VNJ-215	N/A	2.19	100	Brown	Yellow	Medium	N/A	N/A	2
P4547-01	BP-F-21	N/A	2.28	100	Brown	Yellow	Medium	N/A	N/A	3
P4547-05	BP-F-20	N/A	2.46	100	Brown	Yellow	Medium	N/A	N/A	4
P4547-05MS	BP-F-20MS	N/A	2.32	100	Brown	Yellow	Medium	N/A	M6000,M6009	6
P4547-05MSD	BP-F-20MSD	N/A	2.19	100	Brown	Yellow	Medium	N/A	M6000,M6009	7
P4547-05DUP	BP-F-20DUP	N/A	2.17	100	Brown	Yellow	Medium	N/A	N/A	5
P4561-01	BP-F-19	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	8
P4561-05	BP-F-18	N/A	2.44	100	Brown	Yellow	Medium	N/A	N/A	9
P4566-01	HD-01-102524	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	10
P4567-01	WC-1	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	11
P4567-05	WC-2	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	12
P4567-09	WC-3	N/A	2.25	100	Brown	Yellow	Medium	N/A	N/A	13
P4578-03	WB-305-TOP	N/A	2.17	100	Brown	Yellow	Medium	N/A	N/A	14
P4578-04	WB-305-TOP-1	N/A	2.10	100	Brown	Yellow	Medium	N/A	N/A	15
P4578-05	WB-305-BOT	N/A	2.05	100	Brown	Yellow	Medium	N/A	N/A	16
P4578-07	WB-305-BOT-1	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	17
PB164415BL	PBS415	N/A	2.37	100	Colorless	Colorless	Fine	N/A	N/A	18
PB164415BS	LCS415	N/A	2.37	100	Colorless	Colorless	Fine	N/A	M6000,M6009	19

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB164415 **WorkList ID :** 184797 **Department :** Digestion **Date :** 10-25-2024 15:43:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4531-01	OR-03-102424	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG05	K61	10/24/2024	6010D
P4545-01	VNJ-215	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	K61	10/24/2024	6010D
P4547-01	BP-F-21	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	K51	10/24/2024	6010D
P4547-05	BP-F-20	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	K51	10/24/2024	6010D
P4561-01	BP-F-19	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	K63	10/25/2024	6010D
P4561-05	BP-F-18	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	K63	10/25/2024	6010D
P4566-01	HD-01-102524	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG05	K63	10/25/2024	6010D
P4567-01	WC-1	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	K61	10/25/2024	6010D
P4567-05	WC-2	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	K61	10/25/2024	6010D
P4567-09	WC-3	Solid	Metals ICP-TAL	Cool 4 deg C	PSEG03	K61	10/25/2024	6010D
P4578-03	WB-305-TOP	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	K63	10/25/2024	6010D
P4578-04	WB-305-TOP-1	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	K63	10/25/2024	6010D
P4578-05	WB-305-BOT	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	K63	10/25/2024	6010D
P4578-07	WB-305-BOT-1	Solid	Metals ICP-TAL	Cool 4 deg C	PORT06	K63	10/25/2024	6010D

Date/Time 10/25/24 15:45

Raw Sample Received by: JSP (Met dig)

Raw Sample Relinquished by: [signature]

Date/Time 10/25/24 16:45

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JSP (Met dig)

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164438

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: 10/26/2024 **Time :** 09:40 **Temp :** 95 °C

End Digest Date: 10/26/2024 **Time :** 12:50 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JPP

Supervisor Signature:

Temp : 1. 95°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	M6097
1:1 HCL	5.00	MP82127
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 Temp: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/26/24 12:55	JPP / Met Dig.	5 Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164438

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4491-02	COMP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
P4546-03	34839-40	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	2
P4548-01	MW-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	3
P4548-01MS	MW-1MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	5
P4548-01MSD	MW-1MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	6
P4548-01DUP	MW-1DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	4
P4548-02	MW-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	7
P4548-03	MW-2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	8
P4548-04	MW-2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	9
P4548-05	MW-3	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	10
P4548-06	MW-3	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	11
P4548-07	MW-4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	12
P4548-08	MW-4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	13
P4564-01	100324	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	14
P4578-01	WB-305-SW	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	15
P4578-02	WB-305-SW-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	16
PB164438BL	PBW438	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	17
PB164438BS	LCS438	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	18

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB164438 **WorkList ID :** 184815 **Department :** Digestion **Date :** 10-26-2024 08:56:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4491-02	COMP	Water	Metals ICP-Group1	1:1 HNO3 to pH < 2	ARAM01	K11	10/23/2024	6010D
P4546-03	34839-40	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	K61	10/24/2024	6010D
P4548-01	MW-1	Water	Metals Group4	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-02	MW-1	Water	Dissolved Metals Group5	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-03	MW-2	Water	Metals Group4	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-04	MW-2	Water	Dissolved Metals Group5	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-05	MW-3	Water	Metals Group4	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-06	MW-3	Water	Dissolved Metals Group5	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-07	MW-4	Water	Metals Group4	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-08	MW-4	Water	Dissolved Metals Group5	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4564-01	100324	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	K63	10/25/2024	6010D
P4578-01	WB-305-SW	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PORT06	K63	10/25/2024	6010D
P4578-02	WB-305-SW-1	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PORT06	K63	10/25/2024	6010D

Date/Time 10/26/24 9:00
Raw Sample Received by: JSP (Met dig)
Raw Sample Relinquished by: J. C (SM 1)

Date/Time 10/26/24 11:00
Raw Sample Received by: J-C (SM 1)
Raw Sample Relinquished by: JSP (Met dig)

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164472

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: 10/25/2024 **Time :** 08:10 **Temp :** 94 °C

End Digest Date: 10/25/2024 **Time :** 10:10 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : **1.** 94°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP82934
CCV	30mL	MP82936
CRA	30mL	MP82938
Blank Spike	0.48mL	M P82926
Matrix Spike	0.48mL	MP82926

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	MP82927
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP82929
2.5 ppb	S2.5	30mL	MP82930
5.0 ppb	S5.0	30mL	MP82931
7.5 ppb	S7.5	30mL	MP82932
10.0 ppb	S10.0	30mL	MP82933
ICV	ICV	30mL	MP82934
ICB	ICB	30mL	MP82935
CCV	CCV	30mL	MP82936
CCB	CCB	30mL	MP82937
CRI	CRI	30mL	MP82938
CHK STD	CHK STD	30mL	MP82939

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/25/24 @ 10:37	MB - DIG. Lab	MB - Metal Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164472

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4549-02	TT-067-IDWGW-20241024	30	30	<2	N/A	3-1
P4549-02DUP	TT-067-IDWGW-20241024DUP	30	30	<2	N/A	2
P4549-02MS	TT-067-IDWGW-20241024MS	30	30	<2	MP82926	3
P4549-02MSD	TT-067-IDWGW-20241024MSD	30	30	<2	MP82926	4
P4549-03	TT-068-IDWGW-20241024	30	30	<2	N/A	5
P4549-04	TT-069-IDWGW-20241024	30	30	<2	N/A	6
P4564-01	100324	30	30	<2	N/A	7
P4578-01	WB-305-SW	30	30	<2	N/A	8
P4578-02	WB-305-SW-1	30	30	<2	N/A	9
PB164472BL	PBW472	30	30	<2	N/A	10
PB164472BS	LCS472	30	30	<2	MP82926	11

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 102524_7470 **WorkList ID :** 184787 **Department :** Digestion **Date :** 10-25-2024 07:45:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4549-02	TT-067-IDWGW-20241024	Water	Mercury	1:1 HNO3 to pH < 2	TETR06	K11	10/24/2024	7470A
P4549-03	TT-068-IDWGW-20241024	Water	Mercury	1:1 HNO3 to pH < 2	TETR06	K11	10/24/2024	7470A
P4549-04	TT-069-IDWGW-20241024	Water	Mercury	1:1 HNO3 to pH < 2	TETR06	K11	10/24/2024	7470A
P4578-01	WB-305-SW	Water	Mercury	1:1 HNO3 to pH < 2	PORT06	K63	10/25/2024	7470A
P4578-02	WB-305-SW-1	Water	Mercury	1:1 HNO3 to pH < 2	PORT06	K63	10/25/2024	7470A
P4564-01	100324	Water	Mercury	1:1 HNO3 to pH < 2	PSEG03	K63	10/25/2024	7470A

Date/Time 10/24/24 @ 7:50

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 10/25/24 @ 8:35

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 18:15
In Date: 10/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:38
Out Date: 10/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133131

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4561-01	BP-F-19	1	1.16	8.48	9.64	8.73	89.3	
P4561-02	BP-F-19-EPH	2	1.16	8.50	9.66	8.77	89.5	
P4561-03	BP-F-19-VOC	3	1.15	8.80	9.95	9.16	91.0	
P4561-05	BP-F-18	4	1.15	8.40	9.55	8.36	85.8	
P4561-06	BP-F-18-EPH	5	1.13	8.44	9.57	8.29	84.8	
P4561-07	BP-F-18-VOC	6	1.12	8.71	9.83	8.52	85.0	
P4562-05	SVOC-GPC-BLANK	7	1.00	1.00	2.00	2.00	100.0	
P4562-06	PEST-GPC-BLANK	8	1.00	1.00	2.00	2.00	100.0	
P4562-07	PEST-GPC-BLANK-SPIKE	9	1.00	1.00	2.00	2.00	100.0	
P4562-08	PCB-GPC-BLANK	10	1.00	1.00	2.00	2.00	100.0	
P4562-09	PCB-GPC-BLANK-SPIKE	11	1.00	1.00	2.00	2.00	100.0	
P4562-10	SVOC-GPC2-BLANK	12	1.00	1.00	2.00	2.00	100.0	
P4562-11	PEST-GPC2-BLANK	13	1.00	1.00	2.00	2.00	100.0	
P4562-12	PEST-GPC2-BLANK-SPIKE	14	1.00	1.00	2.00	2.00	100.0	
P4562-13	PCB-GPC2-BLANK	15	1.00	1.00	2.00	2.00	100.0	
P4562-14	PCB-GPC2-BLANK-SPIKE	16	1.00	1.00	2.00	2.00	100.0	
P4563-01	100724-A	26	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-02	100724-B	27	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-03	100724-C	28	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-04	100724-D	29	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-05	100824-A	30	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-06	100924-A	31	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-07	100924-B	32	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-08	101424-A	33	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-09	102324-A	34	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-10	102524-A	35	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-11	FITTING-1	36	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-12	FITTING-2	37	1.00	1.00	2.00	2.00	100.0	wipe sample

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 18:15
In Date: 10/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:38
Out Date: 10/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133131

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4565-01	2054	38	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-02	2055	39	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-03	2056	40	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-04	2057	41	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-05	2058	42	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-06	2059	43	1.00	1.00	2.00	2.00	100.0	wipe sample
P4566-01	HD-01-102524	44	1.14	8.57	9.71	9.47	97.2	
P4566-02	HD-01-102524-E2	45	1.13	8.84	9.97	9.42	93.8	
P4567-01	WC-1	17	1.16	8.50	9.66	8.89	90.9	
P4567-02	WC-1-EPH	18	1.13	8.67	9.8	8.99	90.7	
P4567-03	WC-1-VOC	19	1.18	8.35	9.53	9.05	94.3	
P4567-05	WC-2	20	1.11	8.58	9.69	8.99	91.8	
P4567-06	WC-2-EPH	21	1.18	8.79	9.97	9.12	90.3	
P4567-07	WC-2-VOC	22	1.16	8.46	9.62	9.46	98.1	
P4567-09	WC-3	23	1.17	8.41	9.58	8.69	89.4	
P4567-10	WC-3-EPH	24	1.19	8.78	9.97	9.17	90.9	
P4567-11	WC-3-VOC	25	1.14	8.82	9.96	9.19	91.3	
P4574-01	GRAVEL-1	50	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-02	GRAVEL-1-E2	51	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-04	GRAVEL-2	52	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-05	GRAVEL-2-E2	53	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-07	CONCRETE-1	54	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4574-09	CONCRETE-2	55	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4574-11	CONCRETE-3	56	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4575-01	PL-02-102424	57	1.15	8.42	9.57	8.84	91.3	
P4575-02	PL-02-102424-E2	58	1.15	8.83	9.98	8.99	88.8	
P4576-01	1097	59	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
P4576-02	1098	60	1.00	1.00	2.00	2.00	100.0	WIPE Sample

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 18:15
In Date: 10/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:38
Out Date: 10/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133131

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4577-01	TR-05-102524	61	1.18	8.40	9.58	9.03	93.5	
P4577-02	TR-05-102524-E2	62	1.17	8.53	9.7	9.03	92.1	
P4578-03	WB-305-TOP	46	1.15	8.81	9.96	5.89	53.8	
P4578-04	WB-305-TOP-1	47	1.12	8.82	9.94	6.3	58.7	
P4578-05	WB-305-BOT	48	1.15	8.81	9.96	8.38	82.1	
P4578-07	WB-305-BOT-1	49	1.13	8.86	9.99	9.49	94.4	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VD 133131

WorkList Name : %1-102524 **WorkList ID :** 184773 **Department :** Wet-Chemistry **Date :** 10-25-2024 09:56:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4561-01	BP-F-19	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-02	BP-F-19-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-03	BP-F-19-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-05	BP-F-18	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-06	BP-F-18-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-07	BP-F-18-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4562-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4563-01	100724-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-02	100724-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-03	100724-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-04	100724-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-05	100824-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO

Date/Time 10/25/24 16:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 10/25/24 18:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

WORKLIST(Hardcopy Internal Chain)

LB13313)

WorkList Name : %1-102524 **WorkList ID :** 184773 **Department :** Wet-Chemistry **Date :** 10-25-2024 09:56:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4563-06	100924-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-07	100924-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-08	101424-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-09	102324-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-10	102524-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-11	FITTING-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-12	FITTING-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-01	2054	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-02	2055	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-03	2056	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-04	2057	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-05	2058	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-06	2059	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4566-01	HD-01-102524	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4566-02	HD-01-102524-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4567-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-05	WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-06	WC-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-07	WC-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO

Date/Time 10/25/24 16:30

Raw Sample Received by: JD WC

Raw Sample Relinquished by: L.C

Date/Time 10/25/24 18:30

Raw Sample Received by: L.C JM

Raw Sample Relinquished by: JD WC

WORKLIST(Hardcopy Internal Chain)

UB133131

WorkList Name : %1-102524 **WorkList ID :** 184773 **Department :** Wet-Chemistry **Date :** 10-25-2024 09:56:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4567-09	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-10	WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-11	WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4574-01	GRAVEL-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-02	GRAVEL-1-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-04	GRAVEL-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-05	GRAVEL-2-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-07	CONCRETE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-09	CONCRETE-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-11	CONCRETE-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4575-01	PL-02-102424	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4575-02	PL-02-102424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4576-01	1097	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4576-02	1098	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4577-01	TR-05-102524	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4577-02	TR-05-102524-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4578-03	WB-305-TOP	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO
P4578-04	WB-305-TOP-1	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO
P4578-05	WB-305-BOT	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO
P4578-07	WB-305-BOT-1	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO

Date/Time 10/25/24 16:30

Raw Sample Received by: JD WDC

Raw Sample Relinquished by: L.C Jm

Date/Time 10/25/24 18:30

Raw Sample Received by: L.C Jm

Raw Sample Relinquished by: JD WDC

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 # LB133167

Review By	jaswal	Review On	10/29/2024 12:31:07 AM
Supervise By	mohan	Supervise On	10/29/2024 12:32:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP82910,MP82912,MP82913,MP82914,MP82915,MP82916
ICV Standard	MP82917
CCV Standard	MP82919
ICSA Standard	
CRI Standard	MP82921
LCS Standard	
Chk Standard	MP82918,MP82920,MP82922,MP82941

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/28/24 10:44		Mohan	OK
2	S0.2	S0.2	CAL2	10/28/24 10:51		Mohan	OK
3	S2.5	S2.5	CAL3	10/28/24 10:53		Mohan	OK
4	S5	S5	CAL4	10/28/24 10:56		Mohan	OK
5	S7.5	S7.5	CAL5	10/28/24 11:01		Mohan	OK
6	S10	S10	CAL6	10/28/24 11:05		Mohan	OK
7	ICV55	ICV55	ICV	10/28/24 11:09		Mohan	OK
8	ICB55	ICB55	ICB	10/28/24 11:14		Mohan	OK
9	CCV79	CCV79	CCV	10/28/24 11:16		Mohan	OK
10	CCB79	CCB79	CCB	10/28/24 11:21		Mohan	OK
11	CRA	CRA	CRDL	10/28/24 11:23		Mohan	OK
12	HighStd	HighStd	HIGH STD	10/28/24 11:25		Mohan	OK
13	ChkStd	ChkStd	SAM	10/28/24 11:28		Mohan	OK
14	PB164472BL	PB164472BL	MB	10/28/24 11:32		Mohan	OK
15	PB164472BS	PB164472BS	LCS	10/28/24 11:35		Mohan	OK
16	P4549-02	TT-067-IDWGW-2024	SAM	10/28/24 11:37		Mohan	OK
17	P4549-02DUP	TT-067-IDWGW-2024	DUP	10/28/24 11:39		Mohan	OK
18	P4549-02MS	TT-067-IDWGW-2024	MS	10/28/24 11:42		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 # LB133167

Review By	jaswal	Review On	10/29/2024 12:31:07 AM
Supervise By	mohan	Supervise On	10/29/2024 12:32:27 AM

STD. NAME	STD REF.#
ICAL Standard	MP82910,MP82912,MP82913,MP82914,MP82915,MP82916
ICV Standard	MP82917
CCV Standard	MP82919
ICSA Standard	
CRI Standard	MP82921
LCS Standard	
Chk Standard	MP82918,MP82920,MP82922,MP82941

19	P4549-02MSD	TT-067-IDWGW-2024	MSD	10/28/24 11:44		Mohan	OK
20	P4549-03	TT-068-IDWGW-2024	SAM	10/28/24 11:46		Mohan	OK
21	CCV80	CCV80	CCV	10/28/24 11:48		Mohan	OK
22	CCB80	CCB80	CCB	10/28/24 11:53		Mohan	OK
23	P4549-04	TT-069-IDWGW-2024	SAM	10/28/24 11:56		Mohan	OK
24	P4564-01	100324	SAM	10/28/24 11:58		Mohan	OK
25	P4578-01	WB-305-SW	SAM	10/28/24 12:00		Mohan	OK
26	P4578-02	WB-305-SW-1	SAM	10/28/24 12:02		Mohan	OK
27	P4549-02L	TT-067-IDWGW-2024	SD	10/28/24 12:05		Mohan	OK
28	P4549-02A	TT-067-IDWGW-2024	PS	10/28/24 12:07		Mohan	OK
29	CCV81	CCV81	CCV	10/28/24 12:09		Mohan	OK
30	CCB81	CCB81	CCB	10/28/24 12:14		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 # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/28/24 11:58		Kareem	OK
2	S1	S1	CAL2	10/28/24 12:03		Kareem	OK
3	S2	S2	CAL3	10/28/24 12:07		Kareem	OK
4	S3	S3	CAL4	10/28/24 12:11		Kareem	OK
5	S4	S4	CAL5	10/28/24 12:16		Kareem	OK
6	S5	S5	CAL6	10/28/24 12:20		Kareem	OK
7	ICV01	ICV01	ICV	10/28/24 12:57	Fail for Ba,Mn,K,Ag,Zn (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	10/28/24 13:04		Kareem	OK
9	ICB01	ICB01	ICB	10/28/24 13:08		Kareem	OK
10	CRI01	CRI01	CRDL	10/28/24 13:12		Kareem	OK
11	ICSA01	ICSA01	ICSA	10/28/24 13:16		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	10/28/24 13:21		Kareem	OK
13	ICSADL	ICSADL	ICSA	10/28/24 13:27		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	10/28/24 13:31		Kareem	OK
15	CCV01	CCV01	CCV	10/28/24 13:35		Kareem	OK
16	CCB01	CCB01	CCB	10/28/24 13:39		Kareem	OK
17	P4549-02	TT-067-IDWGW-2024	SAM	10/28/24 13:44		Kareem	OK
18	P4549-03	TT-068-IDWGW-2024	SAM	10/28/24 13:48		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 # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

19	P4549-04	TT-069-IDWGW-2024	SAM	10/28/24 13:52		Kareem	OK
20	P4549-04DUP	TT-069-IDWGW-2024	DUP	10/28/24 13:57		Kareem	OK
21	P4549-04L	TT-069-IDWGW-2024	SD	10/28/24 14:01		Kareem	OK
22	P4549-04MS	TT-069-IDWGW-2024	MS	10/28/24 14:05	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
23	P4549-04MSD	TT-069-IDWGW-2024	MSD	10/28/24 14:09	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
24	P4549-04A	TT-069-IDWGW-2024	PS	10/28/24 14:13	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
25	PB164404BL	PB164404BL	MB	10/28/24 14:17		Kareem	OK
26	PB164404BS	PB164404BS	LCS	10/28/24 14:21	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
27	CCV02	CCV02	CCV	10/28/24 14:25		Kareem	OK
28	CCB02	CCB02	CCB	10/28/24 14:30		Kareem	OK
29	P4554-01	001-WILLETS-PT-BL\	SAM	10/28/24 14:34		Kareem	OK
30	P4554-02	002-35TH-AVE(SEP)	SAM	10/28/24 14:38		Kareem	OK
31	P4554-02DUP	002-35TH-AVE(SEP)[	DUP	10/28/24 14:42		Kareem	OK
32	P4554-02L	002-35TH-AVE(SEP)L	SD	10/28/24 14:46		Kareem	OK
33	P4554-02MS	002-35TH-AVE(SEP)M	MS	10/28/24 14:51	0.1ml of m6001 and m6010 were added to 10 ml of the sample	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 # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

34	P4554-02MSD	002-35TH-AVE(SEP)M	MSD	10/28/24 14:55	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
35	P4554-02A	002-35TH-AVE(SEP)A	PS	10/28/24 14:59	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
36	PB164410BL	PB164410BL	MB	10/28/24 15:03		Kareem	OK
37	PB164410BS	PB164410BS	LCS	10/28/24 15:07	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
38	P3440-01	923-K1-WS-080124	SAM	10/28/24 15:11		Kareem	OK
39	CCV03	CCV03	CCV	10/28/24 15:15		Kareem	OK
40	CCB03	CCB03	CCB	10/28/24 15:20		Kareem	OK
41	P3440-01DUP	923-K1-WS-080124DU	DUP	10/28/24 15:24		Kareem	OK
42	P3440-01L	923-K1-WS-080124L	SD	10/28/24 15:28		Kareem	OK
43	P3440-02	923-K1-WS-080124M	MS	10/28/24 15:33	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
44	P3440-03	923-K1-WS-080124M	MSD	10/28/24 15:37	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
45	P3440-01A	923-K1-WS-080124A	PS	10/28/24 15:41	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
46	P3440-04	922-K1-WS-080124	SAM	10/28/24 15:45		Kareem	OK
47	PB164476BL	PB164476BL	MB	10/28/24 15:49		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 # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

48	PB164476BS	PB164476BS	LCS	10/28/24 15:54	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
49	P4574-01	GRAVEL-1	SAM	10/28/24 15:58		Kareem	OK
50	P4574-04	GRAVEL-2	SAM	10/28/24 16:02		Kareem	OK
51	CCV04	CCV04	CCV	10/28/24 16:06		Kareem	OK
52	CCB04	CCB04	CCB	10/28/24 16:10		Kareem	OK
53	P4574-07	CONCRETE-1	SAM	10/28/24 16:15		Kareem	OK
54	P4574-09	CONCRETE-2	SAM	10/28/24 16:19	Cr high	Kareem	Dilution
55	P4574-11	CONCRETE-3	SAM	10/28/24 16:23	Cr high	Kareem	Dilution
56	P4575-01	PL-02-102424	SAM	10/28/24 16:28		Kareem	OK
57	P4577-01	TR-05-102524	SAM	10/28/24 16:32		Kareem	OK
58	P4577-01DUP	TR-05-102524DUP	DUP	10/28/24 16:36		Kareem	OK
59	P4577-01L	TR-05-102524L	SD	10/28/24 16:41		Kareem	OK
60	P4577-01MS	TR-05-102524MS	MS	10/28/24 16:45	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
61	P4577-01MSD	TR-05-102524MSD	MSD	10/28/24 16:49	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
62	P4577-01A	TR-05-102524A	PS	10/28/24 16:53	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
63	CCV05	CCV05	CCV	10/28/24 16:57		Kareem	OK
64	CCB05	CCB05	CCB	10/28/24 17:01		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 # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

65	PB164439BL	PB164439BL	MB	10/28/24 17:06		Kareem	OK
66	PB164439BS	PB164439BS	LCS	10/28/24 17:10	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
67	P4452-03	ETGI-285	SAM	10/28/24 17:14		Kareem	OK
68	P4545-02	VNJ-215	SAM	10/28/24 17:19		Kareem	OK
69	P4547-04	BP-F-21	SAM	10/28/24 17:23		Kareem	OK
70	P4547-08	BP-F-20	SAM	10/28/24 17:28		Kareem	OK
71	P4561-04	BP-F-19	SAM	10/28/24 17:32		Kareem	OK
72	P4561-08	BP-F-18	SAM	10/28/24 17:36		Kareem	OK
73	P4567-04	WC-1	SAM	10/28/24 17:41		Kareem	OK
74	P4567-08	WC-2	SAM	10/28/24 17:45		Kareem	OK
75	CCV06	CCV06	CCV	10/28/24 17:50		Kareem	OK
76	CCB06	CCB06	CCB	10/28/24 17:54		Kareem	OK
77	P4567-12	WC-3	SAM	10/28/24 17:58		Kareem	OK
78	P4574-03	GRAVEL-1	SAM	10/28/24 18:03		Kareem	OK
79	P4574-06	GRAVEL-2	SAM	10/28/24 18:07		Kareem	OK
80	P4574-08	CONCRETE-1	SAM	10/28/24 18:12		Kareem	OK
81	P4574-10	CONCRETE-2	SAM	10/28/24 18:16		Kareem	OK
82	P4574-12	CONCRETE-3	SAM	10/28/24 18:21		Kareem	OK
83	P4578-06	WB-305-BOT	SAM	10/28/24 18:25		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 # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

84	P4578-08	WB-305-BOT-1	SAM	10/28/24 18:29		Kareem	OK
85	P4578-08DUP	WB-305-BOT-1DUP	DUP	10/28/24 18:34		Kareem	OK
86	P4578-08L	WB-305-BOT-1L	SD	10/28/24 18:38		Kareem	OK
87	CCV07	CCV07	CCV	10/28/24 18:43		Kareem	OK
88	CCB07	CCB07	CCB	10/28/24 18:47		Kareem	OK
89	P4578-08MS	WB-305-BOT-1MS	MS	10/28/24 18:51	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
90	P4578-08MSD	WB-305-BOT-1MSD	MSD	10/28/24 18:55	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
91	P4578-08A	WB-305-BOT-1A	PS	10/28/24 18:59	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
92	PB164393TB	PB164393TB	MB	10/28/24 19:04		Kareem	OK
93	PB164453BL	PB164453BL	MB	10/28/24 19:08		Kareem	OK
94	PB164453BS	PB164453BS	LCS	10/28/24 19:12	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
95	P4547-01	BP-F-21	SAM	10/28/24 19:16		Kareem	OK
96	P4547-05	BP-F-20	SAM	10/28/24 19:21		Kareem	OK
97	P4531-01	OR-03-102424	SAM	10/28/24 19:25		Kareem	OK
98	P4545-01	VNJ-215	SAM	10/28/24 19:29		Kareem	OK
99	CCV08	CCV08	CCV	10/28/24 19:33		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 # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

100	CCB08	CCB08	CCB	10/28/24 19:37		Kareem	OK
101	P4547-05DUP	BP-F-20DUP	DUP	10/28/24 19:42		Kareem	OK
102	P4547-05L	BP-F-20L	SD	10/28/24 19:46		Kareem	OK
103	P4547-05MS	BP-F-20MS	MS	10/28/24 19:50	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
104	P4547-05MSD	BP-F-20MSD	MSD	10/28/24 19:54	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
105	P4547-05A	BP-F-20A	PS	10/28/24 19:58	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
106	P4561-01	BP-F-19	SAM	10/28/24 20:02		Kareem	OK
107	P4561-05	BP-F-18	SAM	10/28/24 20:06		Kareem	OK
108	P4566-01	HD-01-102524	SAM	10/28/24 20:10		Kareem	OK
109	P4567-01	WC-1	SAM	10/28/24 20:14		Kareem	OK
110	P4567-05	WC-2	SAM	10/28/24 20:18		Kareem	OK
111	CCV09	CCV09	CCV	10/28/24 20:22		Kareem	OK
112	CCB09	CCB09	CCB	10/28/24 20:26		Kareem	OK
113	P4567-09	WC-3	SAM	10/28/24 20:31		Kareem	OK
114	P4578-03	WB-305-TOP	SAM	10/28/24 20:35		Kareem	OK
115	P4578-04	WB-305-TOP-1	SAM	10/28/24 20:39	Cr high	Kareem	Dilution
116	P4578-05	WB-305-BOT	SAM	10/28/24 20:43		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 # LB133175

Review By	jaswal	Review On	10/30/2024 1:21:12 AM
Supervise By	kareem	Supervise On	11/6/2024 10:58:05 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

117	P4578-07	WB-305-BOT-1	SAM	10/28/24 20:47		Kareem	OK
118	P4574-09DL	CONCRETE-2DL	SAM	10/28/24 20:59	5x for Cr	Kareem	Confirms
119	P4574-11DL	CONCRETE-3DL	SAM	10/28/24 21:04	5x for Cr	Kareem	Confirms
120	PB164415BL	PB164415BL	MB	10/28/24 21:08		Kareem	OK
121	PB164415BS	PB164415BS	LCS	10/28/24 21:12	0.1ml of m6001 and m6010 were added to 10 ml of the sample	Kareem	OK
122	CCV10	CCV10	CCV	10/28/24 21:21		Kareem	OK
123	CCB10	CCB10	CCB	10/28/24 21:25		Kareem	OK
124	LR1	LR1	HIGH STD	10/28/24 21:29		Kareem	OK
125	LR2	LR2	HIGH STD	10/28/24 21:34		Kareem	OK
126	CCV11	CCV11	CCV	10/28/24 21:38		Kareem	OK
127	CCB11	CCB11	CCB	10/28/24 21:43		Kareem	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 # LB133185

Review By	jaswal	Review On	10/30/2024 12:41:40 AM
Supervise By	mohan	Supervise On	10/30/2024 12:42:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP82944,MP82945,MP82946,MP82947,MP82948,MP82949
ICV Standard	MP82950
CCV Standard	MP82952
ICSA Standard	
CRI Standard	MP82954
LCS Standard	
Chk Standard	MP82951,MP82953,MP82955,MP82958

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/29/24 10:10		Mohan	OK
2	S0.2	S0.2	CAL2	10/29/24 10:12		Mohan	OK
3	S2.5	S2.5	CAL3	10/29/24 10:15		Mohan	OK
4	S5	S5	CAL4	10/29/24 10:17		Mohan	OK
5	S7.5	S7.5	CAL5	10/29/24 10:19		Mohan	OK
6	S10	S10	CAL6	10/29/24 10:29		Mohan	OK
7	ICV57	ICV57	ICV	10/29/24 10:32		Mohan	OK
8	ICB57	ICB57	ICB	10/29/24 10:34		Mohan	OK
9	CCV86	CCV86	CCV	10/29/24 10:36		Mohan	OK
10	CCB86	CCB86	CCB	10/29/24 10:39		Mohan	OK
11	CRA	CRA	CRDL	10/29/24 10:41		Mohan	OK
12	HighStd	HighStd	HIGH STD	10/29/24 10:43		Mohan	OK
13	ChkStd	ChkStd	SAM	10/29/24 10:45		Mohan	OK
14	PB164487BL	PB164487BL	MB	10/29/24 10:48		Mohan	OK
15	PB164487BS	PB164487BS	LCS	10/29/24 10:50		Mohan	OK
16	P4574-01	GRAVEL-1	SAM	10/29/24 10:52		Mohan	OK
17	P4574-01DUP	GRAVEL-1DUP	DUP	10/29/24 10:55		Mohan	OK
18	P4574-01MS	GRAVEL-1MS	MS	10/29/24 10:57		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 # LB133185

Review By	jaswal	Review On	10/30/2024 12:41:40 AM
Supervise By	mohan	Supervise On	10/30/2024 12:42:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP82944,MP82945,MP82946,MP82947,MP82948,MP82949
ICV Standard	MP82950
CCV Standard	MP82952
ICSA Standard	
CRI Standard	MP82954
LCS Standard	
Chk Standard	MP82951,MP82953,MP82955,MP82958

19	P4574-01MSD	GRAVEL-1MSD	MSD	10/29/24 10:59		Mohan	OK
20	P4574-04	GRAVEL-2	SAM	10/29/24 11:02		Mohan	OK
21	CCV87	CCV87	CCV	10/29/24 11:04		Mohan	OK
22	CCB87	CCB87	CCB	10/29/24 11:06		Mohan	OK
23	P4574-07	CONCRETE-1	SAM	10/29/24 11:08		Mohan	OK
24	P4574-09	CONCRETE-2	SAM	10/29/24 11:11		Mohan	OK
25	P4574-11	CONCRETE-3	SAM	10/29/24 11:13		Mohan	OK
26	P4575-01	PL-02-102424	SAM	10/29/24 11:15		Mohan	OK
27	P4577-01	TR-05-102524	SAM	10/29/24 11:17		Mohan	OK
28	P4578-03	WB-305-TOP	SAM	10/29/24 11:20	High	Mohan	Dilution
29	P4578-04	WB-305-TOP-1	SAM	10/29/24 11:22	High	Mohan	Dilution
30	P4578-05	WB-305-BOT	SAM	10/29/24 11:25		Mohan	OK
31	P4578-07	WB-305-BOT-1	SAM	10/29/24 11:27		Mohan	OK
32	P4594-01	TP-4	SAM	10/29/24 11:30		Mohan	OK
33	CCV88	CCV88	CCV	10/29/24 11:32		Mohan	OK
34	CCB88	CCB88	CCB	10/29/24 11:34		Mohan	OK
35	P4594-05	BP-F17	SAM	10/29/24 11:37		Mohan	OK
36	P4594-09	BP-F16	SAM	10/29/24 11:39		Mohan	OK
37	P4594-13	TP-5	SAM	10/29/24 11:41		Mohan	OK
38	P4594-17	BP-F15	SAM	10/29/24 11:43		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 # LB133185

Review By	jaswal	Review On	10/30/2024 12:41:40 AM
Supervise By	mohan	Supervise On	10/30/2024 12:42:51 AM

STD. NAME	STD REF.#
ICAL Standard	MP82944,MP82945,MP82946,MP82947,MP82948,MP82949
ICV Standard	MP82950
CCV Standard	MP82952
ICSA Standard	
CRI Standard	MP82954
LCS Standard	
Chk Standard	MP82951,MP82953,MP82955,MP82958

39	P4595-01	PITKIN-COMP	SAM	10/29/24 11:46		Mohan	OK
40	P4574-01L	GRAVEL-1L	SD	10/29/24 11:48		Mohan	OK
41	P4574-01A	GRAVEL-1A	PS	10/29/24 11:50		Mohan	OK
42	P4578-03DL	WB-305-TOPDL	SAM	10/29/24 11:52	Report 10X	Mohan	Confirms
43	P4578-04DL	WB-305-TOP-1DL	SAM	10/29/24 11:55	Report 10X	Mohan	Confirms
44	CCV89	CCV89	CCV	10/29/24 11:57		Mohan	OK
45	CCB89	CCB89	CCB	10/29/24 11:59		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 # LB133198

Review By	kareem	Review On	11/5/2024 5:16:33 PM
Supervise By	jaswal	Supervise On	11/6/2024 9:01:10 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/29/24 11:33		Kareem	OK
2	S1	S1	CAL2	10/29/24 11:38		Kareem	OK
3	S2	S2	CAL3	10/29/24 11:42		Kareem	OK
4	S3	S3	CAL4	10/29/24 11:46		Kareem	OK
5	S4	S4	CAL5	10/29/24 11:50		Kareem	OK
6	S5	S5	CAL6	10/29/24 11:54		Kareem	OK
7	ICV01	ICV01	ICV	10/29/24 11:59	Fail for Al,Ba,Be,Cd,Ca,Mg,Mn,V (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	10/29/24 12:31		Kareem	OK
9	ICB01	ICB01	ICB	10/29/24 12:35		Kareem	OK
10	CRI01	CRI01	CRDL	10/29/24 12:40		Kareem	OK
11	ICSA01	ICSA01	ICSA	10/29/24 12:44		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	10/29/24 12:48		Kareem	OK
13	ICSADL	ICSADL	ICSA	10/29/24 12:53		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	10/29/24 12:57		Kareem	OK
15	CCV01	CCV01	CCV	10/29/24 13:01		Kareem	OK
16	CCB01	CCB01	CCB	10/29/24 13:06		Kareem	OK
17	P3645-01DL	914-J-WS-081524DL	SAM	10/29/24 13:11	Not Required	Kareem	Not Ok
18	P3645-01DUPDL	914-J-WS-081524DU	DUP	10/29/24 13:15	Not Required	Kareem	Not 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 # LB133198

Review By	kareem	Review On	11/5/2024 5:16:33 PM
Supervise By	jaswal	Supervise On	11/6/2024 9:01:10 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

19	P3645-01LDL	914-J-WS-081524LDL	SD	10/29/24 13:19	Not Required	Kareem	Not Ok
20	P3645-01MSDL	914-J-WS-081524MS	MS	10/29/24 13:24	5x for Si	Kareem	Confirms
21	P3645-01MSDDL	914-J-WS-081524MS	MSD	10/29/24 13:28	5x for Si	Kareem	Confirms
22	P3645-01ADL	914-J-WS-081524ADL	PS	10/29/24 13:32	Not Required	Kareem	Not Ok
23	P4596-07	TOTE-WATER-COMP	SAM	10/29/24 13:36	NOT USE	Kareem	Not Ok
24	P4596-07DUP	TOTE-WATER-COMP	DUP	10/29/24 13:41	NOT USE	Kareem	Not Ok
25	P4596-07L	TOTE-WATER-COMP	SD	10/29/24 13:45	NOT USE	Kareem	Not Ok
26	P4596-07MS	TOTE-WATER-COMP	MS	10/29/24 13:49	NOT USE	Kareem	Not Ok
27	CCV02	CCV02	CCV	10/29/24 14:04		Kareem	OK
28	CCB02	CCB02	CCB	10/29/24 14:15		Kareem	OK
29	P4596-07MSD	TOTE-WATER-COMP	MSD	10/29/24 14:19	NOT USE	Kareem	Not Ok
30	P4596-07A	TOTE-WATER-COMP	PS	10/29/24 14:23	NOT USE	Kareem	Not Ok
31	PB164479BL	PB164479BL	MB	10/29/24 14:27		Kareem	OK
32	PB164479BS	PB164479BS	LCS	10/29/24 14:31	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
33	P4511-01	266	SAM	10/29/24 14:35		Kareem	OK
34	P4512-01	3140	SAM	10/29/24 14:40		Kareem	OK
35	P4512-02	3149	SAM	10/29/24 14:44		Kareem	OK
36	P4513-04	D3682	SAM	10/29/24 14:49		Kareem	OK
37	P4513-04DUP	D3682DUP	DUP	10/29/24 14:53		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 # LB133198

Review By	kareem	Review On	11/5/2024 5:16:33 PM
Supervise By	jaswal	Supervise On	11/6/2024 9:01:10 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

38	P4513-04L	D3682L	SD	10/29/24 14:58		Kareem	OK
39	CCV03	CCV03	CCV	10/29/24 15:02		Kareem	OK
40	CCB03	CCB03	CCB	10/29/24 15:06		Kareem	OK
41	P4513-04MS	D3682MS	MS	10/29/24 15:16	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
42	P4513-04MSD	D3682MSD	MSD	10/29/24 15:21	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
43	P4513-04A	D3682A	PS	10/29/24 15:25	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
44	PB164336TB	PB164336TB	MB	10/29/24 15:29		Kareem	OK
45	PB164379BL	PB164379BL	MB	10/29/24 15:34		Kareem	OK
46	PB164379BS	PB164379BS	LCS	10/29/24 15:38	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
47	P4491-02	COMP	SAM	10/29/24 15:42		Kareem	OK
48	P4546-03DL	34839-40DL	SAM	10/29/24 15:46	Straight 5x Dilution for all elements	Kareem	OK
49	P4548-01	MW-1	SAM	10/29/24 15:51		Kareem	OK
50	P4548-01DUP	MW-1DUP	DUP	10/29/24 15:55		Kareem	OK
51	CCV04	CCV04	CCV	10/29/24 15:59		Kareem	OK
52	CCB04	CCB04	CCB	10/29/24 16:03		Kareem	OK
53	P4548-01L	MW-1L	SD	10/29/24 16:11		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 # LB133198

Review By	kareem	Review On	11/5/2024 5:16:33 PM
Supervise By	jaswal	Supervise On	11/6/2024 9:01:10 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

54	P4548-01MS	MW-1MS	MS	10/29/24 16:15	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
55	P4548-01MSD	MW-1MSD	MSD	10/29/24 16:19	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
56	P4548-01A	MW-1A	PS	10/29/24 16:23	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
57	P4548-02	MW-1	SAM	10/29/24 16:27		Kareem	OK
58	P4548-03	MW-2	SAM	10/29/24 16:31		Kareem	OK
59	P4548-04	MW-2	SAM	10/29/24 16:35		Kareem	OK
60	P4548-05	MW-3	SAM	10/29/24 16:40		Kareem	OK
61	P4548-06	MW-3	SAM	10/29/24 16:44		Kareem	OK
62	P4548-07	MW-4	SAM	10/29/24 16:49		Kareem	OK
63	CCV05	CCV05	CCV	10/29/24 16:53		Kareem	OK
64	CCB05	CCB05	CCB	10/29/24 16:57		Kareem	OK
65	P4548-08	MW-4	SAM	10/29/24 17:05		Kareem	OK
66	P4564-01	100324	SAM	10/29/24 17:11		Kareem	OK
67	P4578-01	WB-305-SW	SAM	10/29/24 17:15	Na (OverSaturated)	Kareem	Dilution
68	P4578-02	WB-305-SW-1	SAM	10/29/24 17:20	Na (OverSaturated)	Kareem	Dilution
69	LR1	LR1	HIGH STD	10/29/24 17:33		Kareem	OK
70	LR2	LR2	HIGH STD	10/29/24 17:38		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 # LB133198

Review By	kareem	Review On	11/5/2024 5:16:33 PM
Supervise By	jaswal	Supervise On	11/6/2024 9:01:10 PM

STD. NAME	STD REF.#
ICAL Standard	MP82441,MP82476,MP82477,MP82478,MP82479,MP82712
ICV Standard	MP82485
CCV Standard	MP82488
ICSA Standard	MP82486,MP82487
CRI Standard	MP82712
LCS Standard	
Chk Standard	MP82491,MP82492

71	P4564-01DL	100324DL	SAM	10/29/24 17:45	Not Required	Kareem	Not Ok
72	P4578-01DL	WB-305-SWDL	SAM	10/29/24 17:49	5x for Na	Kareem	Confirms
73	CCV06	CCV06	CCV	10/29/24 17:53		Kareem	OK
74	CCB06	CCB06	CCB	10/29/24 17:58		Kareem	OK
75	P4578-02DL	WB-305-SW-1DL	SAM	10/29/24 18:02	5x for Na	Kareem	Confirms
76	PB164438BL	PB164438BL	MB	10/29/24 18:07		Kareem	OK
77	PB164438BS	PB164438BS	LCS	10/29/24 18:16	0.1ml of m6001 and m6010 were add to 10ml of sample	Kareem	OK
78	CCV07	CCV07	CCV	10/29/24 18:20		Kareem	OK
79	CCB07	CCB07	CCB	10/29/24 18:24		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 # LB133365

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	11/08/24 13:34		Kareem	OK
2	S1	S1	CAL2	11/08/24 13:38		Kareem	OK
3	S2	S2	CAL3	11/08/24 13:43		Kareem	OK
4	S3	S3	CAL4	11/08/24 13:47		Kareem	OK
5	S4	S4	CAL5	11/08/24 13:51		Kareem	OK
6	S5	S5	CAL6	11/08/24 13:55		Kareem	OK
7	ICV01	ICV01	ICV	11/08/24 13:59	ICV fail for Na (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	11/08/24 14:11		Kareem	OK
9	ICB01	ICB01	ICB	11/08/24 14:16		Kareem	OK
10	CRI01	CRI01	CRDL	11/08/24 14:20		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/08/24 14:24		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/08/24 14:30		Kareem	OK
13	ICSADL	ICSADL	ICSA	11/08/24 14:35		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	11/08/24 14:40		Kareem	OK
15	CCV01	CCV01	CCV	11/08/24 14:44		Kareem	OK
16	CCB01	CCB01	CCB	11/08/24 14:50		Kareem	OK
17	P4578-04DL	WB-305-TOP-1DL	SAM	11/08/24 14:55	5x for Cr	Kareem	Confirms
18	P4719-03	BAYAVE-STOCKPILE	SAM	11/08/24 14:59		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 # LB133365

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	P4720-05	JC-701-COMP-01	SAM	11/08/24 15:03		Kareem	OK
20	P4734-01	EO-03-11062024	SAM	11/08/24 15:07		Kareem	OK
21	P4757-01	001-WILLETS-BLVD(S	SAM	11/08/24 15:12		Kareem	OK
22	P4757-02	002-35TH-AVE(SEP)	SAM	11/08/24 15:16		Kareem	OK
23	P4757-03	001-WILLETS-BLVD((	SAM	11/08/24 15:20		Kareem	OK
24	P4757-04	002-35TH-AVE(OCT)	SAM	11/08/24 15:25		Kareem	OK
25	CCV02	CCV02	CCV	11/08/24 15:29		Kareem	OK
26	CCB02	CCB02	CCB	11/08/24 15:33		Kareem	OK
27	P4718-03	WB-307-SB02	SAM	11/08/24 15:39	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
28	P4718-03DUP	WB-307-SB02DUP	DUP	11/08/24 15:44	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
29	P4718-03L	WB-307-SB02L	SD	11/08/24 15:48	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
30	P4718-03MS	WB-307-SB02MS	MS	11/08/24 15:52	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
31	P4718-03MSD	WB-307-SB02MSD	MSD	11/08/24 15:57	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
32	P4718-03A	WB-307-SB02A	PS	11/08/24 16:01	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
33	P4722-04	WC-1(0-6)	SAM	11/08/24 16:06		Kareem	OK
34	P4722-09	WC-2(0-6)	SAM	11/08/24 16:10		Kareem	OK
35	P4722-14	WC-3(0-6)	SAM	11/08/24 16:15		Kareem	OK
36	P4732-02	PPE-COMP	SAM	11/08/24 16:19		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 # LB133365

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	

37	CCV03	CCV03	CCV	11/08/24 16:23		Kareem	OK
38	CCB03	CCB03	CCB	11/08/24 16:28		Kareem	OK
39	P4738-02	72-12018	SAM	11/08/24 16:32		Kareem	OK
40	P4739-04	TP-14	SAM	11/08/24 16:36		Kareem	OK
41	P4739-08	BP-G2	SAM	11/08/24 16:41		Kareem	OK
42	P4739-12	BP-B2	SAM	11/08/24 16:45		Kareem	OK
43	P4739-16	TP-11	SAM	11/08/24 16:50		Kareem	OK
44	PB164694TB	PB164694TB	MB	11/08/24 16:54		Kareem	OK
45	PB164768BL	PB164768BL	MB	11/08/24 16:59		Kareem	OK
46	PB164768BS	PB164768BS	LCS	11/08/24 17:03		Kareem	OK
47	P4762-02	EFF-WW	SAM	11/08/24 17:07		Kareem	OK
48	P4762-02DUP	EFF-WWDUP	DUP	11/08/24 17:11		Kareem	OK
49	CCV04	CCV04	CCV	11/08/24 17:16		Kareem	OK
50	CCB04	CCB04	CCB	11/08/24 17:22		Kareem	OK
51	P4762-02L	EFF-WWL	SD	11/08/24 17:26		Kareem	OK
52	P4762-02MS	EFF-WWMS	MS	11/08/24 17:31		Kareem	OK
53	P4762-02MSD	EFF-WWMSD	MSD	11/08/24 17:35		Kareem	OK
54	P4762-02A	EFF-WWA	PS	11/08/24 17:39		Kareem	OK
55	PB164782BL	PB164782BL	MB	11/08/24 17:43		Kareem	OK
56	PB164782BS	PB164782BS	LCS	11/08/24 17:47		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 # LB133365

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	

57	P4732-01	PPE-COMP	SAM	11/08/24 17:51		Kareem	OK
58	P4737-01	TP2	SAM	11/08/24 17:55		Kareem	OK
59	P4738-01	72-12018	SAM	11/08/24 18:00		Kareem	OK
60	CCV05	CCV05	CCV	11/08/24 18:04		Kareem	OK
61	CCB05	CCB05	CCB	11/08/24 18:08		Kareem	OK
62	P4739-01	TP-14	SAM	11/08/24 18:13		Kareem	OK
63	P4739-05	BP-G2	SAM	11/08/24 18:17		Kareem	OK
64	P4739-09	BP-B2	SAM	11/08/24 18:21		Kareem	OK
65	P4739-13	TP-11	SAM	11/08/24 18:26		Kareem	OK
66	P4739-13DUP	TP-11DUP	DUP	11/08/24 18:30		Kareem	OK
67	P4739-13L	TP-11L	SD	11/08/24 18:34		Kareem	OK
68	P4739-13MS	TP-11MS	MS	11/08/24 18:38		Kareem	OK
69	P4739-13MSD	TP-11MSD	MSD	11/08/24 18:42		Kareem	OK
70	P4739-13A	TP-11A	PS	11/08/24 18:47		Kareem	OK
71	PB164757BL	PB164757BL	MB	11/08/24 18:51		Kareem	OK
72	CCV06	CCV06	CCV	11/08/24 18:55		Kareem	OK
73	CCB06	CCB06	CCB	11/08/24 18:59		Kareem	OK
74	PB164757BS	PB164757BS	LCS	11/08/24 19:03		Kareem	OK
75	P4733-01	402	SAM	11/08/24 19:08		Kareem	OK
76	P4733-01DUP	402DUP	DUP	11/08/24 19:12		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 # LB133365

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	

77	P4733-01L	402L	SD	11/08/24 19:17		Kareem	OK
78	P4733-01MS	402MS	MS	11/08/24 19:21		Kareem	OK
79	P4733-01MSD	402MSD	MSD	11/08/24 19:25		Kareem	OK
80	P4733-01A	402A	PS	11/08/24 19:29		Kareem	OK
81	PB164758BL	PB164758BL	MB	11/08/24 19:34		Kareem	OK
82	PB164758BS	PB164758BS	LCS	11/08/24 19:38		Kareem	OK
83	P4718-04	WB-307-SW	SAM	11/08/24 19:42	Na (Oversaturated)	Kareem	Dilution
84	CCV07	CCV07	CCV	11/08/24 19:47		Kareem	OK
85	CCB07	CCB07	CCB	11/08/24 19:51		Kareem	OK
86	P4718-04DUP	WB-307-SWDUP	DUP	11/08/24 19:55	Na (Oversaturated)	Kareem	Dilution
87	P4718-04L	WB-307-SWL	SD	11/08/24 20:00	Na high	Kareem	Dilution
88	P4718-04MS	WB-307-SWMS	MS	11/08/24 20:04	Na (Oversaturated)	Kareem	Dilution
89	P4718-04MSD	WB-307-SWMSD	MSD	11/08/24 20:09	Na (Oversaturated)	Kareem	Dilution
90	P4718-04A	WB-307-SWA	PS	11/08/24 20:14	Na (Oversaturated)	Kareem	Dilution
91	P4736-02	COMP	SAM	11/08/24 20:18		Kareem	OK
92	PB164759BL	PB164759BL	MB	11/08/24 20:22	NOT USE - fail for Na	Kareem	Not Ok
93	PB164759BS	PB164759BS	LCS	11/08/24 20:27	NOT USE - fail for Na	Kareem	Not Ok
94	LR1	LR1	HIGH STD	11/08/24 20:38		Kareem	OK
95	LR2	LR2	HIGH STD	11/08/24 20:42		Kareem	OK
96	CCV08	CCV08	CCV	11/08/24 20:48		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 # LB133365

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	

97	CCB08	CCB08	CCB	11/08/24 20:57		Kareem	OK
98	PB164646BL	PB164646BL	MB	11/08/24 21:02		Kareem	OK
99	PB164646BS	PB164646BS	LCS	11/08/24 21:06		Kareem	OK
100	PB164645BL	PB164645BL	MB	11/08/24 21:10		Kareem	OK
101	PB164645BS	PB164645BS	LCS	11/08/24 21:14		Kareem	OK
102	P4718-04DL	WB-307-SWDL	SAM	11/08/24 21:18	10x for Na	Kareem	Confirms
103	P4718-04DUPDL	WB-307-SWDUPDL	DUP	11/08/24 21:23	10x for Na	Kareem	Confirms
104	P4718-04LDL	WB-307-SWLDL	SD	11/08/24 21:27	50x for Na	Kareem	Confirms
105	P4718-04MSDL	WB-307-SWMSDL	MS	11/08/24 21:31	10x for Na	Kareem	Confirms
106	P4718-04MSDDL	WB-307-SWMSDDL	MSD	11/08/24 21:36	10x for Na	Kareem	Confirms
107	P4718-04ADL	WB-307-SWADL	PS	11/08/24 21:40	10x for Na	Kareem	Confirms
108	CCV09	CCV09	CCV	11/08/24 21:50		Kareem	OK
109	CCB09	CCB09	CCB	11/08/24 21:55		Kareem	OK
110	P4681-01	Q4-WW	SAM	11/08/24 21:59	NOT USE	Kareem	Not Ok
111	P4681-01DL	Q4-WWDL	SAM	11/08/24 22:24	Straight 25x Dilution for all elements	Kareem	OK
112	P4681-01DUPDL	Q4-WWDUPDL	DUP	11/08/24 22:29	Straight 25x Dilution for all elements	Kareem	OK
113	P4681-01LDL	Q4-WWLDL	SD	11/08/24 22:33	Straight 25x Dilution for all elements	Kareem	OK
114	P4681-01MSDL	Q4-WWMSDL	MS	11/08/24 22:44	Straight 25x Dilution for all elements	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 # LB133365

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	

115	P4681-01MSDDL	Q4-WWMSDDL	MSD	11/08/24 22:53	Straight 25x Dilution for all elements	Kareem	OK
116	P4681-01ADL	Q4-WWADL	PS	11/08/24 23:07	Straight 25x Dilution for all elements	Kareem	OK
117	CCV10	CCV10	CCV	11/08/24 23:24		Kareem	OK
118	CCB10	CCB10	CCB	11/08/24 23:35		Kareem	OK

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

Prep Standard - Chemical Standard Summary

Order ID : P4578

Test : Mercury,Metals ICP-TAL

Prepbatch ID : PB164415,PB164438,PB164472,PB164487,

Sequence ID/Qc Batch ID: LB133167,LB133175,LB133185,LB133198,LB133198,LB133198,LB133198,LB133365,

Standard ID :
MP81119,MP82127,MP82441,MP82476,MP82477,MP82478,MP82479,MP82485,MP82486,MP82487,MP82488,MP824
91,MP82492,MP82651,MP82652,MP82653,MP82654,MP82711,MP82712,MP82909,MP82910,MP82912,MP82913,MP
82914,MP82915,MP82916,MP82917,MP82918,MP82919,MP82920,MP82921,MP82922,MP82926,MP82934,MP82936,
MP82938,MP82941,MP82943,MP82944,MP82945,MP82946,MP82947,MP82948,MP82949,MP82950,MP82951,MP829
52,MP82953,MP82954,MP82955,MP82958,

Chemical ID :
M
P82926,M4371,M4465,M4916,M4960,M5062,M5130,M5192,M5218,M5223,M5288,M5295,M5296,M5390,M5394,M542
9,M5467,M5498,M5501,M5515,M5585,M5634,M5658,M5673,M5697,M5698,M5747,M5748,M5769,M5798,M5799,M58
00,M5801,M5802,M5806,M5814,M5815,M5816,M5817,M5818,M5819,M5820,M5875,M5882,M5935,M5953,M5962,M5
963,M5970,M5978,M5982,M5984,M6000,M6009,M6021,M6023,M6028,M6030,M6033,M6034,M6037,M6040,M6080,M
6094,M6095,M6097,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
169	1:1HNO3	MP81119	06/21/2024	04/24/2025	Al-Terek Isaac	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/21/2024

FROM 1250.00000ml of M5935 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP82127	09/03/2024	02/08/2025	Janvi Patel	None	None	Sarabjit Jaswal 09/03/2024

FROM 1250.00000ml of M6040 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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
902	ICP AES CAL BLK (SO/ICB/CCB)	MP82441	09/23/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 125.00000ml of M6040 + 2350.00000ml of W3112 + 25.00000ml of M6037 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP82476	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 5.00000ml of M5296 + 5.00000ml of M5394 + 5.00000ml of M5802 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5875 + 5.00000ml of M5970 + 5.00000ml of M5982 + 460.00000ml of MP82441 = 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
910	ICP AES STD S4	MP82477	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 50.00000ml of MP82441 + 50.00000ml of MP82476 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP82478	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 25.00000ml of MP82476 + 75.00000ml of MP82441 = 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
3913	ICP AES STD S2	MP82479	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 16.00000ml of MP82476 + 184.00000ml of MP82441 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP82485	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.02500ml of M5982 + 0.25000ml of M5218 + 10.00000ml of M5295 + 89.77500ml of MP82441 = 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
904	ICP AES ICSA SOLN	MP82486	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 25.00000ml of M5130 + 225.00000ml of MP82441 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP82487	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 0.01000ml of M5815 + 0.01000ml of M5817 + 0.10000ml of M5296 + 0.10000ml of M5970 + 0.10000ml of M5982 + 10.00000ml of M5130 + 10.00000ml of M5223 + 79.50000ml of MP82441 = 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
911	ICP AES CCV SOLN	MP82488	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 50.00000ml of MP82441 + 50.00000ml of MP82476 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP82491	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 1.00000ml of M5984 + 10.00000ml of M4960 + 1969.00000ml of W3112 + 20.00000ml of M5963 = 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
903	ICP AES RINSE SOLN	MP82492	09/24/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 09/24/2024

FROM 200.00000ml of M6034 + 9800.00000ml of W3112 = 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
2950	ICP AES S1/CRI STOCK STD	MP82711	10/07/2024	10/31/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 10/07/2024

FROM 0.00300ml of M6028 + 0.03000ml of M5798 + 0.05000ml of M5515 + 0.05000ml of M5658 + 0.05000ml of M6030 + 0.05000ml of M6033 + 0.06000ml of M5747 + 0.10000ml of M5697 + 0.10000ml of M5698 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M5982 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M5819 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.25000ml of M5467 + 0.25000ml of M5802 + 0.50000ml of M5390 + 0.50000ml of M5814 + 1.00000ml of M5192 + 1.00000ml of M5288 + 1.00000ml of M5498 + 1.00000ml of M5769 + 1.00000ml of M5806 + 1.00000ml of M5978 + 2.00000ml of M5816 + 2.00000ml of M5818 + 77.68000ml of MP82441 = Final Quantity: 100.000 ml

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
2951	ICP AES S1/CRI WORK STD	MP82712	10/07/2024	10/30/2024	Kareem Khairalla	None	None	Sarabjit Jaswal 10/07/2024

FROM 2.00000ml of MP82711 + 98.00000ml of MP82441 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP82909	10/24/2024	10/25/2024	Mohan Bera	None	None	Sarabjit Jaswal 10/26/2024

FROM 1.00000ml of M6097 + 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	MP82910	10/24/2024	10/25/2024	Mohan Bera	None	None	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M6097 + 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	MP82912	10/24/2024	10/25/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M6097 + 247.30000ml of W3112 + 0.20000ml of MP82909 = 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	MP82913	10/24/2024	10/25/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M6097 + 245.00000ml of W3112 + 2.50000ml of MP82909 = 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	MP82914	10/24/2024	10/25/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M6097 + 242.50000ml of W3112 + 5.00000ml of MP82909 = 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	MP82915	10/24/2024	10/25/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M6097 + 240.00000ml of W3112 + 7.50000ml of MP82909 = 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	MP82916	10/24/2024	10/25/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M6097 + 237.50000ml of W3112 + 10.00000ml of MP82909 = 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	MP82917	10/24/2024	10/25/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M5953 + 2.50000ml of M6097 + 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)	MP82918	10/24/2024	10/25/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M6097 + 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)	MP82919	10/24/2024	10/25/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 485.00000ml of W3112 + 5.00000ml of M6097 + 10.00000ml of MP82909 = 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)	MP82920	10/24/2024	10/25/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 495.00000ml of W3112 + 5.00000ml of M6097 = 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)	MP82921	10/24/2024	10/25/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M6097 + 247.30000ml of W3112 + 0.20000ml of MP82909 = 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)	MP82922	10/24/2024	10/25/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M6097 + 240.50000ml of W3112 + 7.00000ml of MP82909 = 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
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP82926	10/25/2024	10/26/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 1.00000ml of M6097 + 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
1346	Hg ICV SOLUTION	MP82934	10/25/2024	10/26/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M5953 + 2.50000ml of M6097 + 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
1358	CCV (Hg 5.0 PPB SOLUTION)	MP82936	10/25/2024	10/26/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 485.00000ml of W3112 + 5.00000ml of M6097 + 10.00000ml of MP82926 = 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)	MP82938	10/25/2024	10/26/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/26/2024

FROM 2.50000ml of M6097 + 247.30000ml of W3112 + 0.20000ml of MP82926 = 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	MP82941	10/28/2024	10/29/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/29/2024

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6094 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP82943	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 10/29/2024

FROM 1.00000ml of M6097 + 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	MP82944	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 2.50000ml of M6097 + 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	MP82945	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 2.50000ml of M6097 + 247.30000ml of W3112 + 0.20000ml of MP82943 = 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	MP82946	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 2.50000ml of M6097 + 245.00000ml of W3112 + 2.50000ml of MP82943 = 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	MP82947	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 2.50000ml of M6097 + 242.50000ml of W3112 + 5.00000ml of MP82943 = 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	MP82948	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 2.50000ml of M6097 + 240.00000ml of W3112 + 7.50000ml of MP82943 = 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	MP82949	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 2.50000ml of M6097 + 237.50000ml of W3112 + 10.00000ml of MP82943 = 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	MP82950	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 2.50000ml of M5953 + 2.50000ml of M6097 + 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)	MP82951	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 2.50000ml of M6097 + 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)	MP82952	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 485.00000ml of W3112 + 5.00000ml of M6097 + 10.00000ml of MP82943 = 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)	MP82953	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 495.00000ml of W3112 + 5.00000ml of M6097 = 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)	MP82954	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 2.50000ml of M6097 + 247.30000ml of W3112 + 0.20000ml of MP82943 = 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)	MP82955	10/28/2024	10/29/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 10/29/2024

FROM 2.50000ml of M6097 + 240.50000ml of W3112 + 7.00000ml of MP82943 = 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	MP82958	10/29/2024	10/30/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/30/2024

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6095 = Final Quantity: 500.000 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	CGIN10-5 / INDIUM 1 x 500 ml	100721	10/07/2024	10/09/2021 / jaswal	10/08/2021 / jaswal	M4960

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	S2-MEB711674	11/02/2026	07/01/2022 / bin	09/10/2021 / bin	M5218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	11/19/2024	05/20/2024 /	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

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.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	11/28/2022 / bin	09/19/2022 / bin	M5394

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

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 #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	02/28/2025	01/20/2024 /	06/12/2023 / jaswal	M5585

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	02/03/2025	04/18/2024 /	08/03/2022 / Al-Terek	M5634

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

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

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.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

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.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

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-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 #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	12/08/2024	06/21/2024 / Al-Terek	06/07/2024 / Al-Terek	M5935

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	01/01/2025	07/01/2024 / mohan	03/30/2023 / mohan	M5953

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 #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	01/04/2025	07/09/2024 / Al-Terek	07/03/2024 / Al-Terek	M5963

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

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	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	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

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.	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	02/01/2025	08/06/2024 / Janvi	08/01/2024 / Janvi	M6034

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	02/02/2025	08/24/2024 / Janvi	08/01/2024 / Janvi	M6037

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)	24D1562005	02/08/2025	08/09/2024 /	08/01/2024 / Janvi	M6040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	03/25/2025	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)		04/24/2025	10/24/2024 / Janvi	10/21/2024 / Janvi	M6094

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)		03/17/2029	10/26/2024 / Janvi	10/21/2024 / Janvi	M6095

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	03/25/2029	10/24/2024 / Janvi	09/21/2024 / Janvi	M6097

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

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	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

R 8/5/24

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

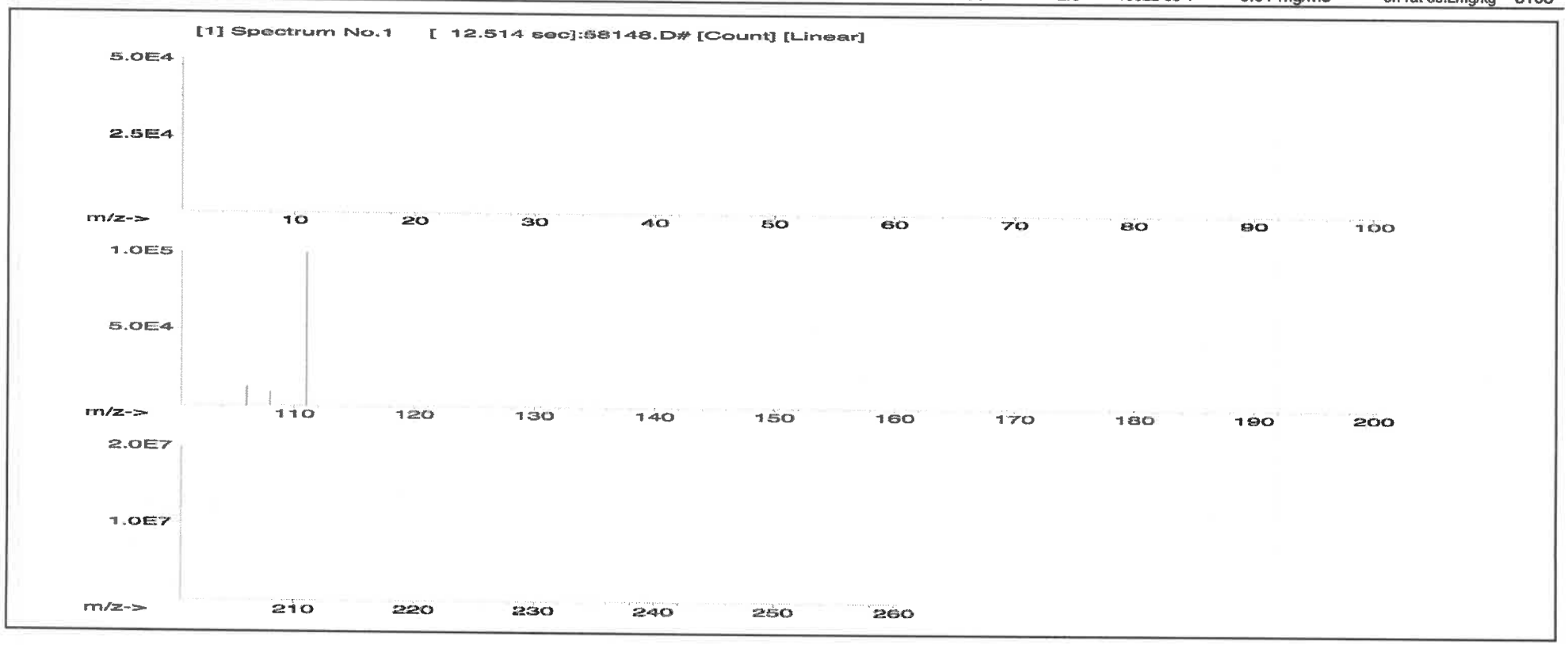
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5296 OP: 09/19/2022 BH

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	S2-MEB711673
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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

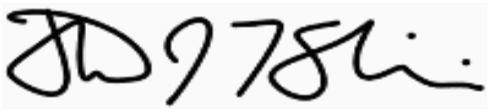
- Sealed TCT Bag Open Date: _____

- 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

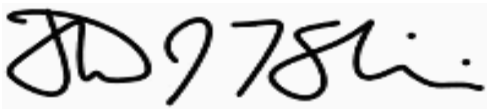
- Sealed TCT Bag Open Date: _____

- 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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M4960 R: 10/08/21 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58149
Lot Number: 100721
Description: Indium (In)

Expiration Date: 100724
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

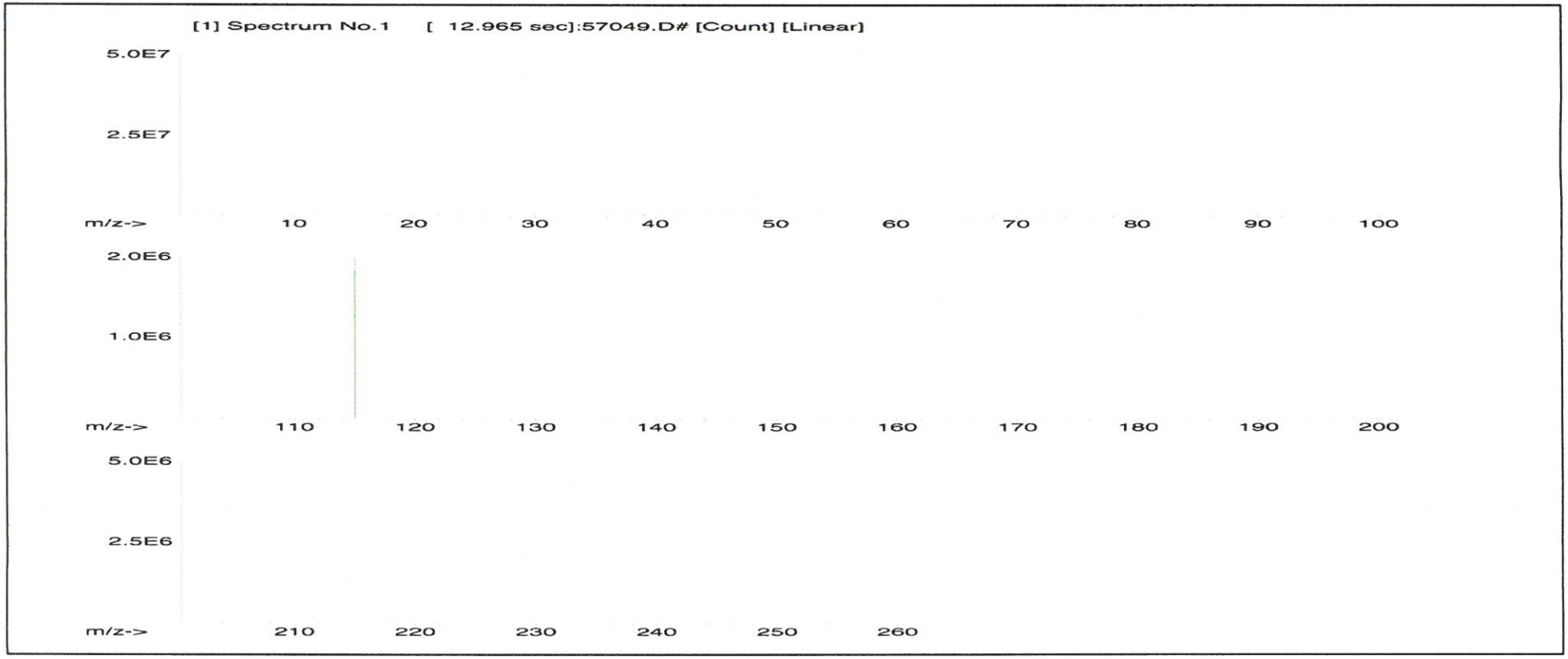
Weight shown below was diluted to (mL): 500.06 0.058 Flask Uncertainty

	Lot #		
Solvent:	20370011	Nitric Acid	
5%	25.0 (mL)	Nitric Acid	
		5E-05	Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	100721
Reviewed By:	Pedro L. Rentas	100721

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Indium Oxide (In)	IN086	W1096A	10000	99.999	0.10	82.6	6.05408	6.05441	**10000.6**	**20.1**	1312-43-2	NA	NA	3124a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	T	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* 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

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



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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:

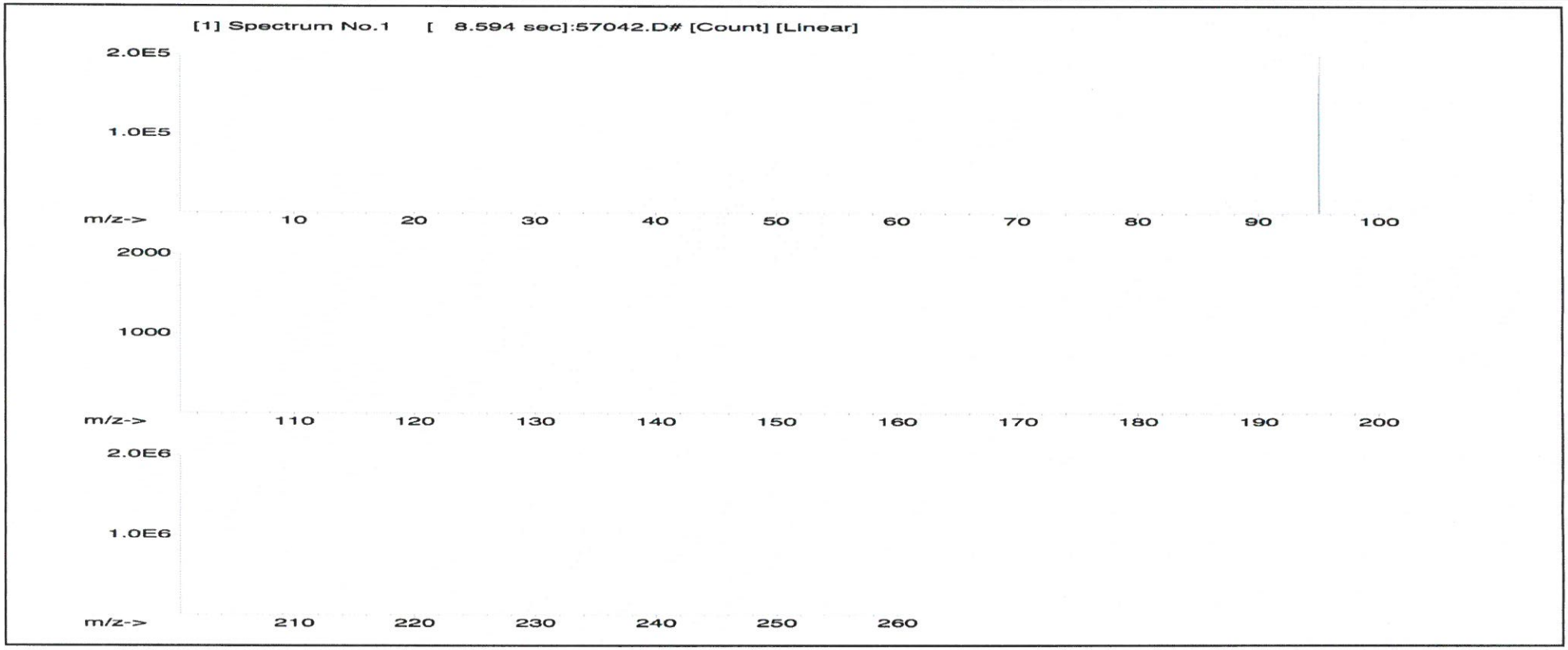
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)

	Lot #	Solvent:	
	MKBQ8597V	Ammonium hydroxide	
	0.5%	15.0 (mL)	Ammonium hydroxide

Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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:

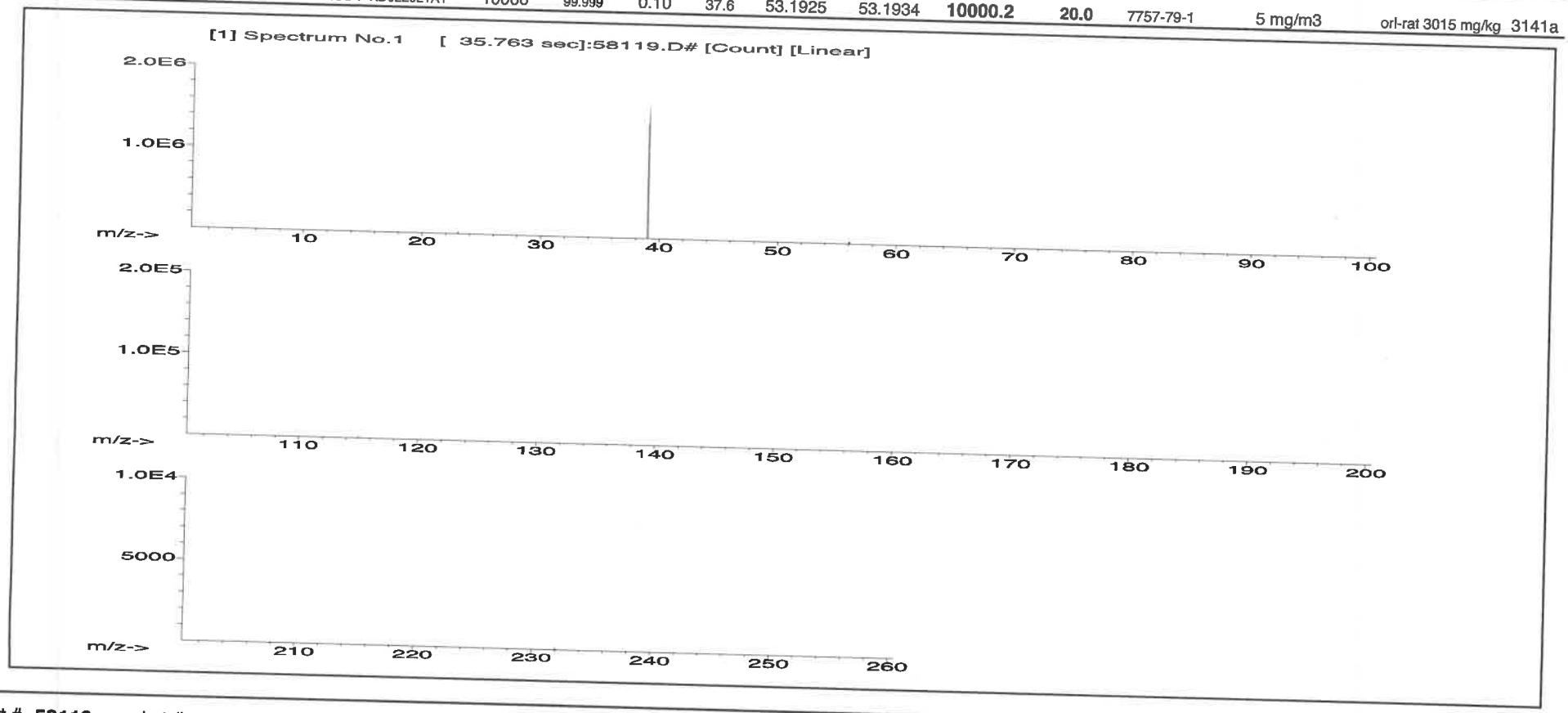
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

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

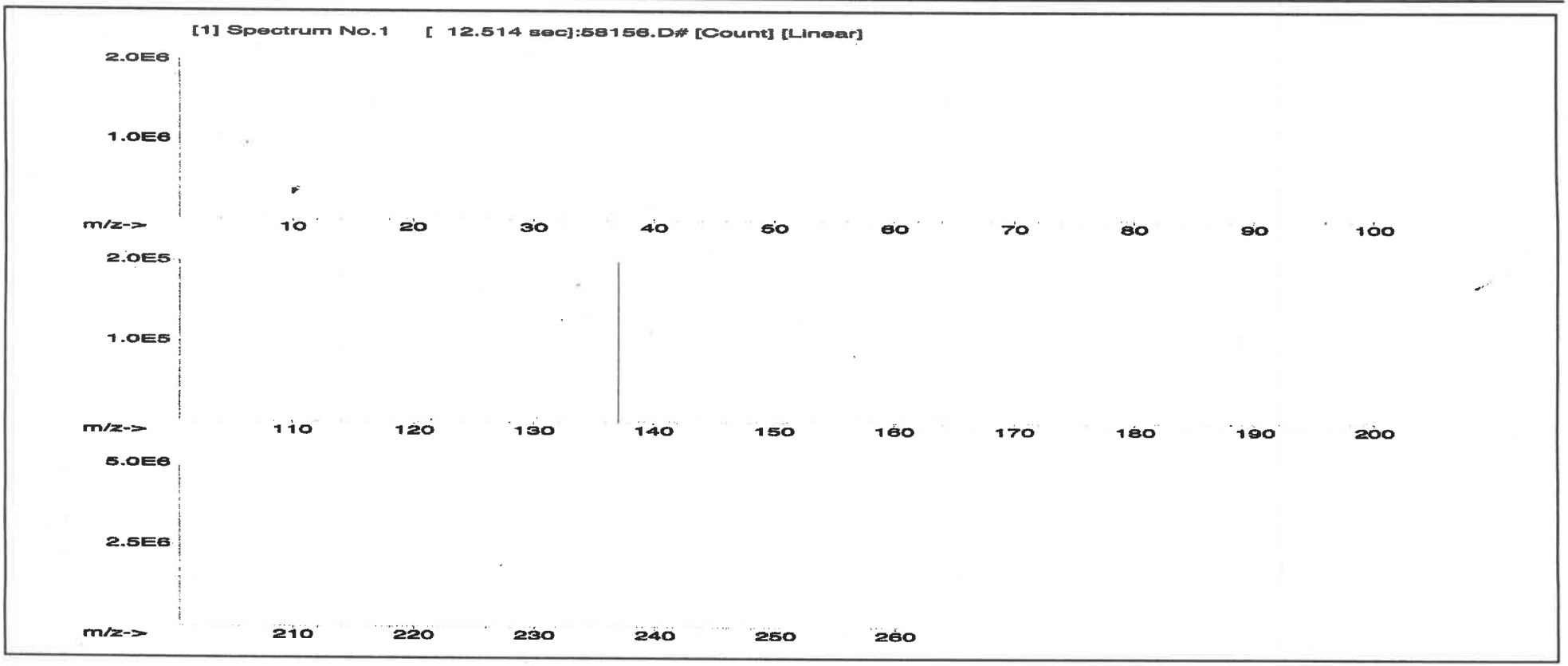
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**57056**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**072122**			
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	072125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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)

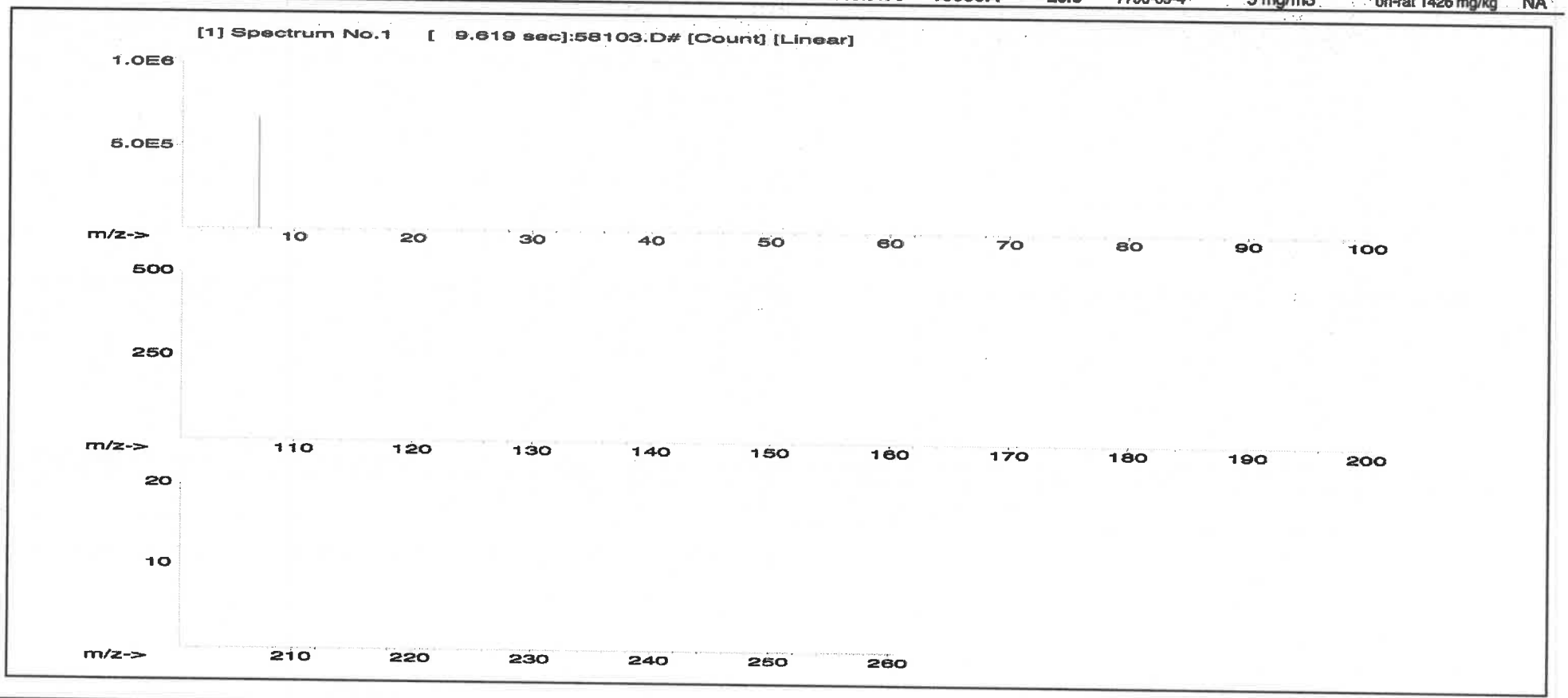
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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

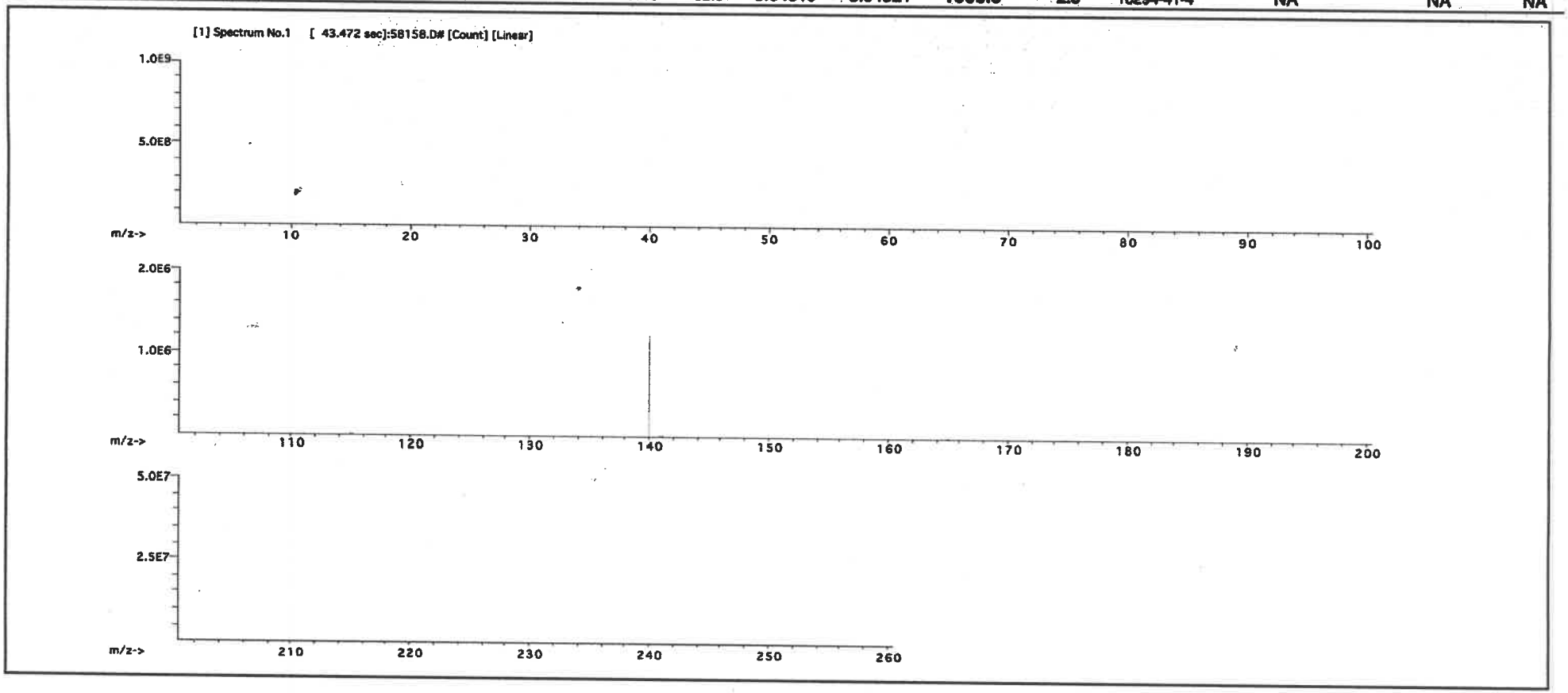
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		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)

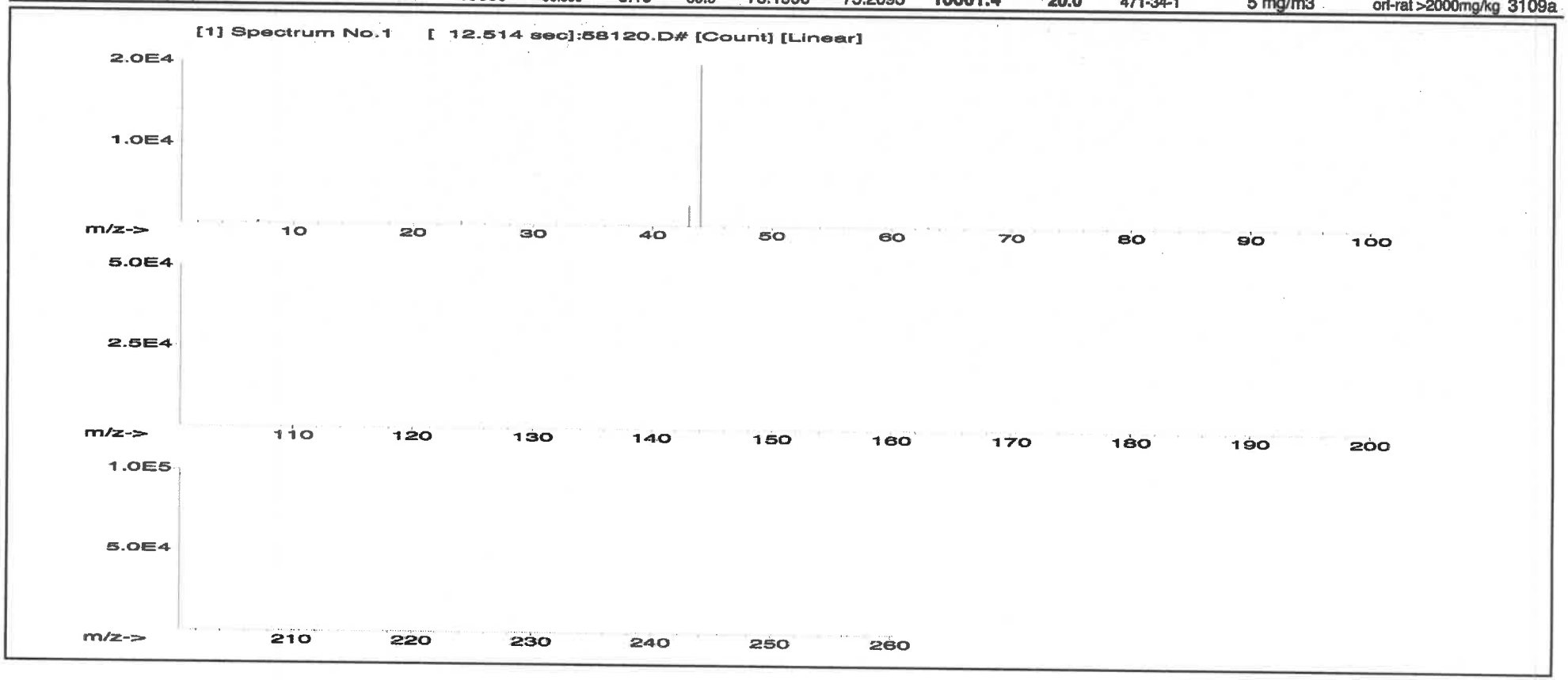
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

		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
Added 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

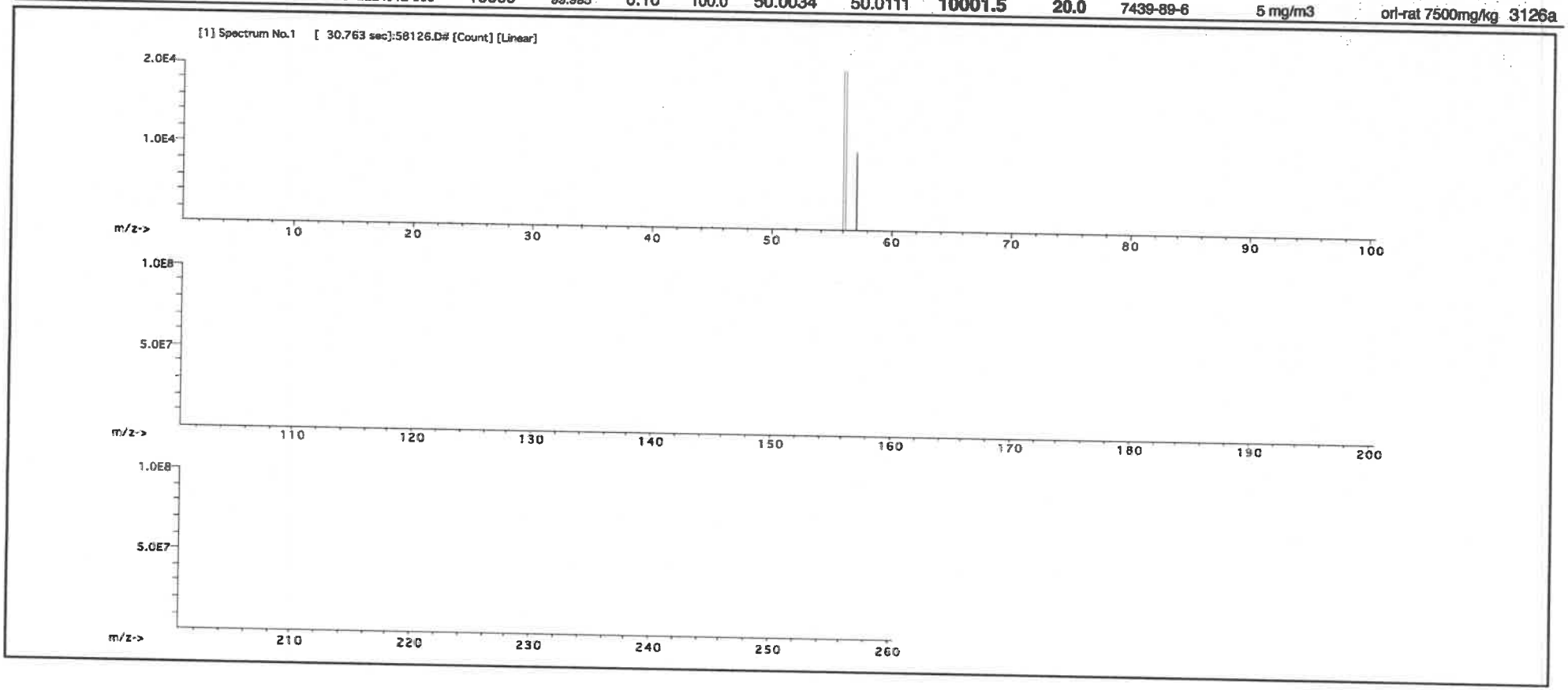
Giovanni Esposito

Formulated By: Giovanni Esposito 092122

Pedro Rentas

Reviewed By: Pedro L. Rentas 092122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2224912-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.05
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* 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).

RD: 06/12/2023, M5581, M5582, M5583, M5584, M5585

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER:	PCI SCIENTIFIC SUPPLY, INC
PURCHASE ORDER NO.	6054931
CATALOG NO.	BOI5021-450L
PRODUCT DESCRIPTION:	BOILING STONES, TFE, 454GMS
QUANTITY:	10 EACH
LOT NO.	W126678
SPECIFICATION (S):	Made from Virgin PTFE Resin

We certify that we have complied with the terms and conditions of the above Purchase Order and the Part Specifications in the manufacturing of the above product.

Laura Valencia

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-68118-BOI5021-061223

3773 NW 126th Avenue • Coral Springs, Florida 33065 • Fax (954) 344-2008 • 1-800 446-3781
Email: jensen@jenseninert.com Visit our Web Site at www.jenseninert.com

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

CERTIFICATE OF ANALYSIS

Date: 8/3/2022 MS631 MS632 MS633 MS634 **Lot No 820803**

Hydrogen Peroxide, ACS
Reagent Grade

TEST	MAXIMUM LIMITS	RESULT
Appearance	Colorless and free from suspended matter or sediment	Pass
Assay	29-32%	31.4%
Color (APHA)	10	5
Residue after Evaporation	0.002%	.0001%
Titratable Acid	0.0006 meq/g	< .0006 meq/g
Chloride (Cl)	2 ppm	< 1 ppm
Nitrate (NO_3)	2 ppm	< 1 ppm
Phosphate	2 ppm	< 1 ppm
Sulfate (SO_4)	5 ppm	< .5 ppm
Ammonium (NH_4)	5 ppm	< 1 ppm
Heavy Metals (as Pb)	1 ppm	< .1 ppm
Iron (Fe)	0.5 ppm	< .1 ppm
Sodium Stannate	200 – 300 ppb	Pass

***Our Hydrogen Peroxide is considered un-stabilized because it is very slightly stabilized with Sodium Stannate, 500 ppb maximum, just for safety purposes.

Date of MFG: 8/2022
Retest date: 8/2024

Gina M. Rambo
Office Manager

CORCO CHEMICAL CORPORATION. 299 CEDAR LANE. FAIRLESS HILLS, PA 19030. 215-295-5006. FAX 215-295-0781

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5658 R ! 8/25/23

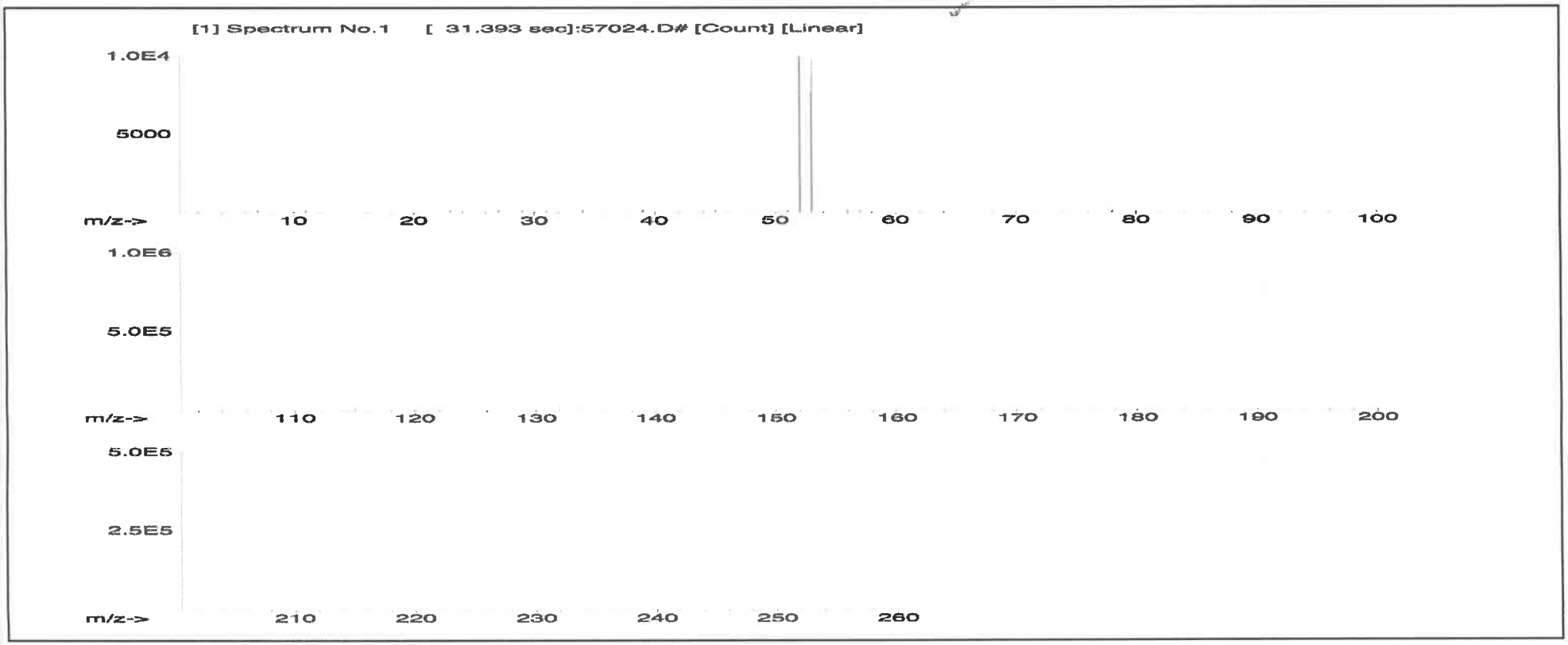
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

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

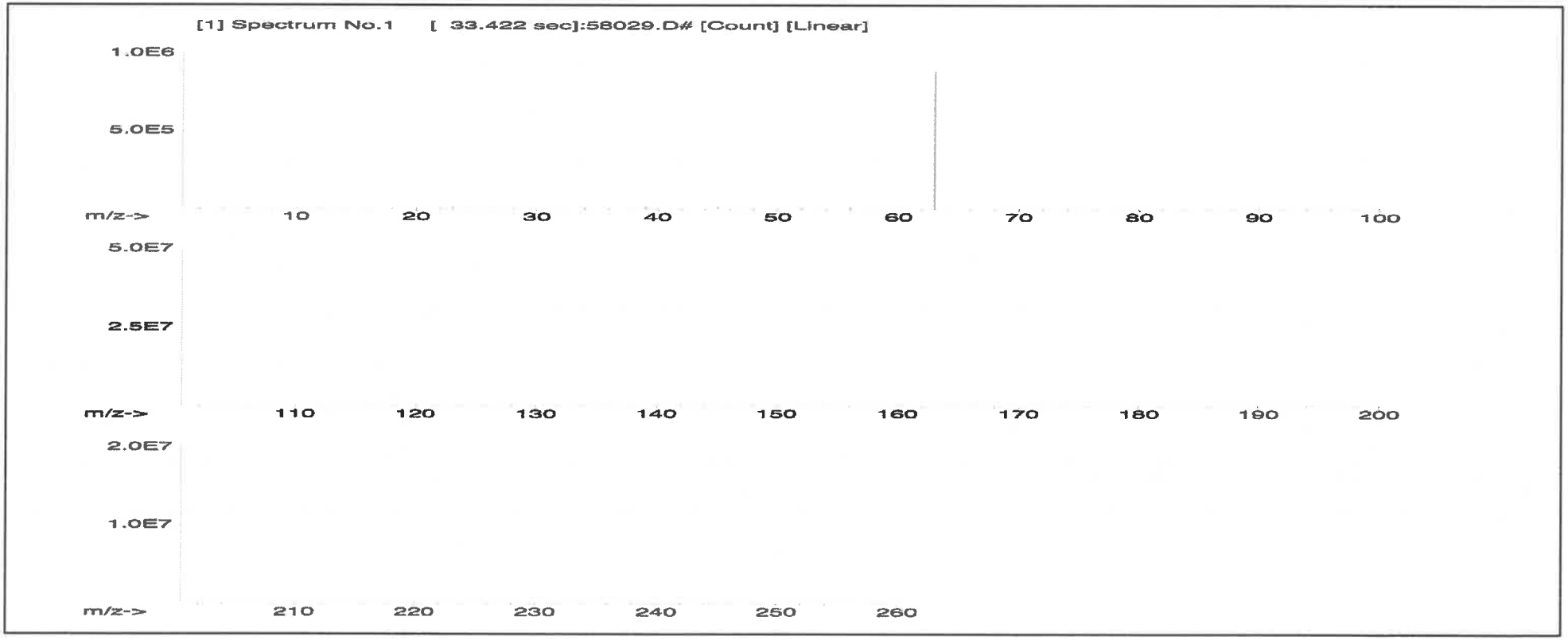
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

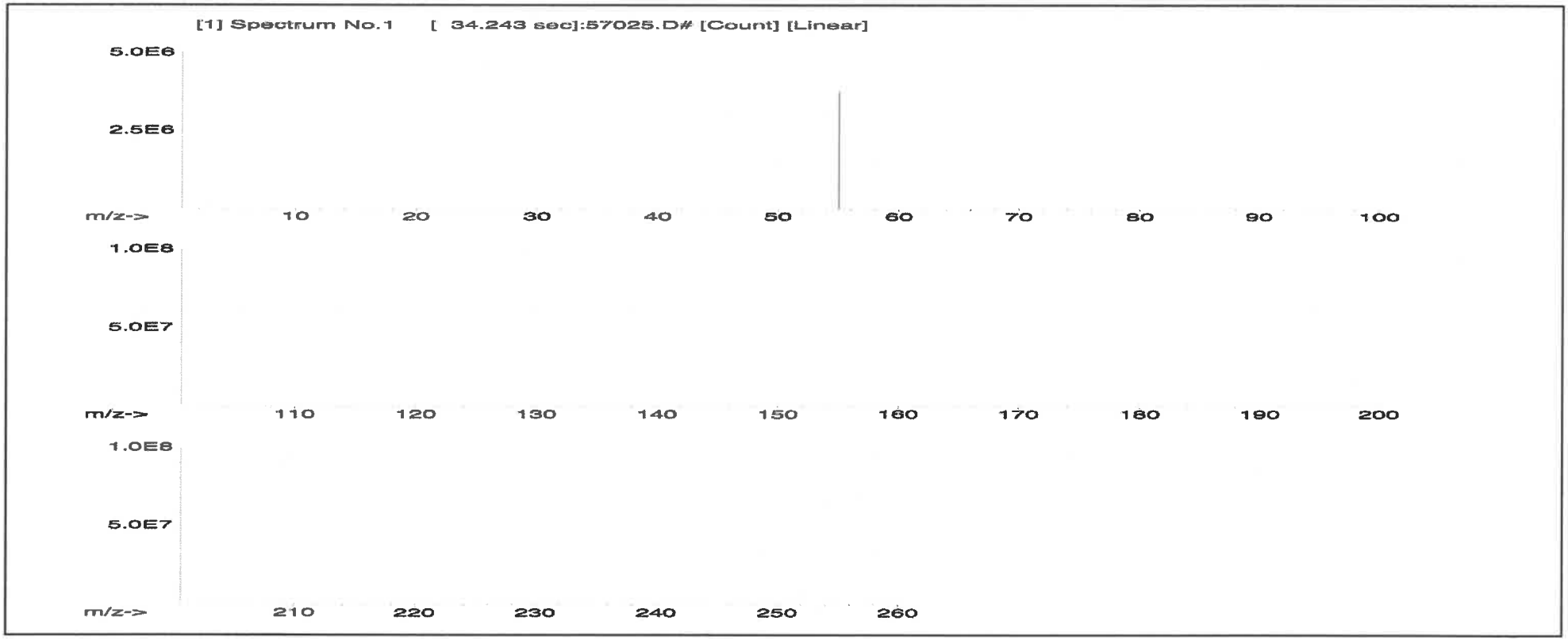
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

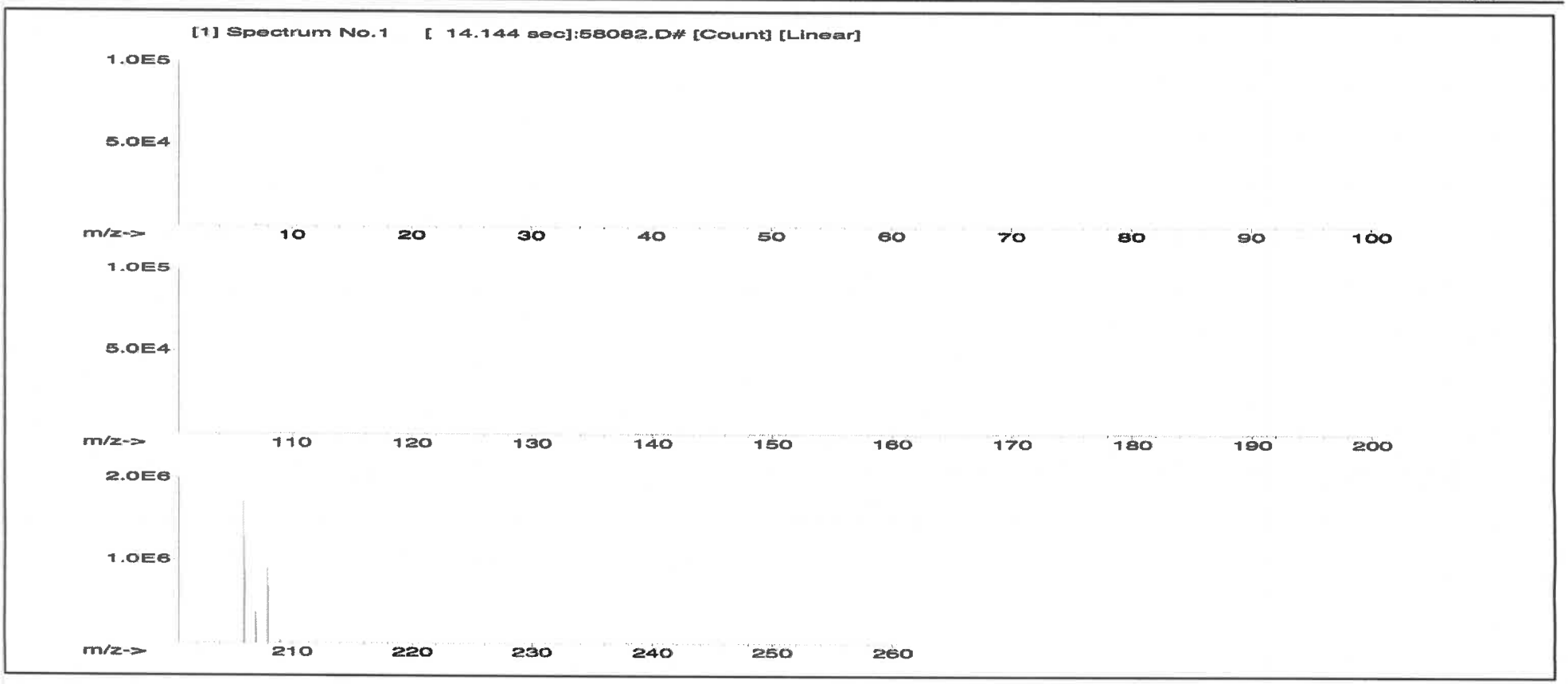
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	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:

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: 12/20/23 M5748

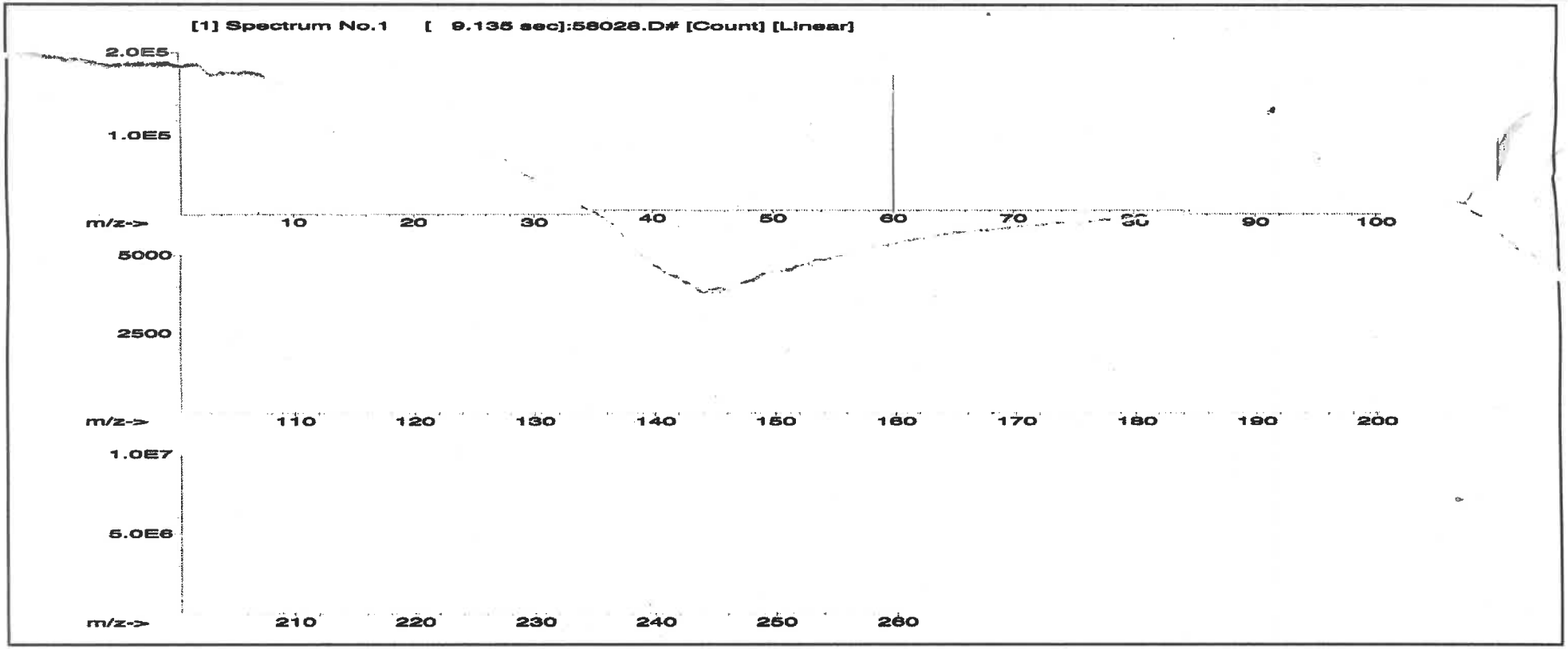
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

M5768, M5769 (BP) R: 1/3/24

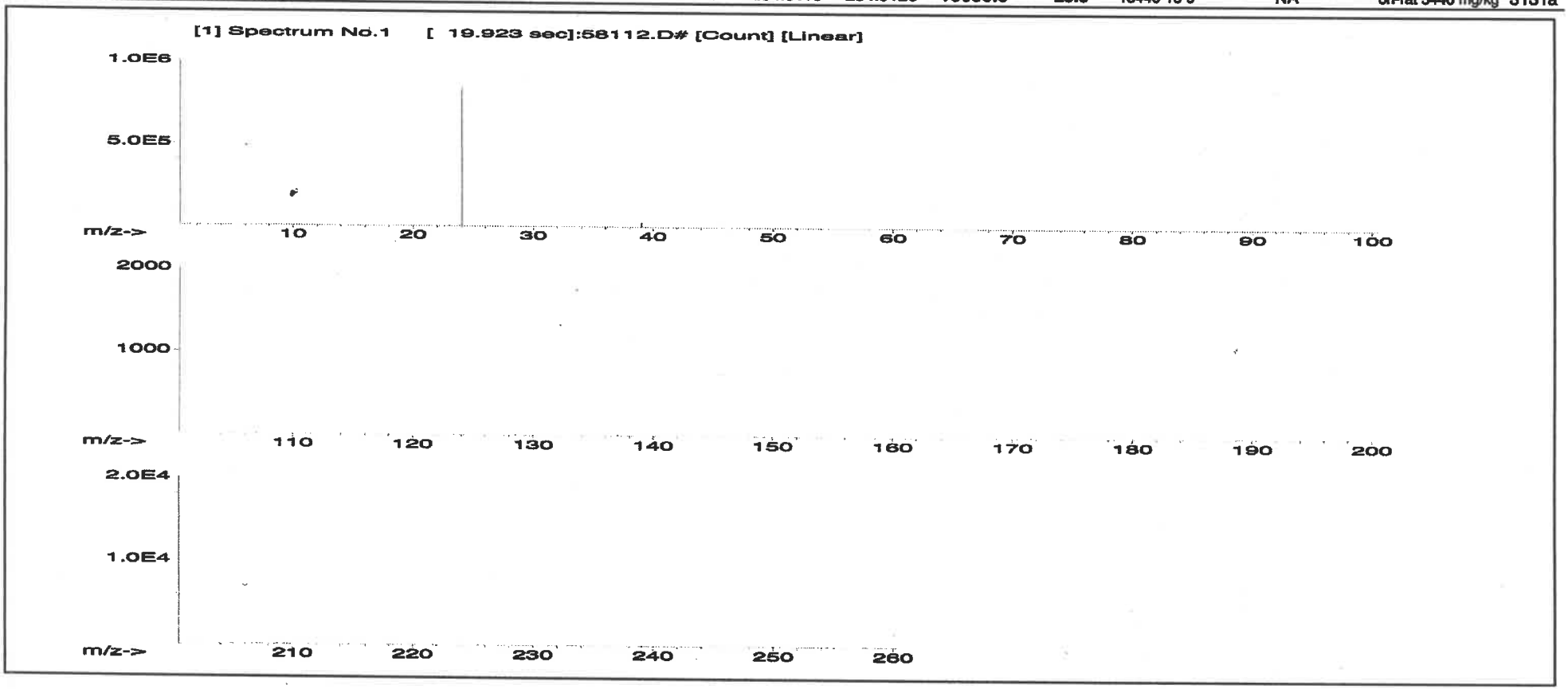
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid
		5E-05	Balance Uncertainty

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* 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

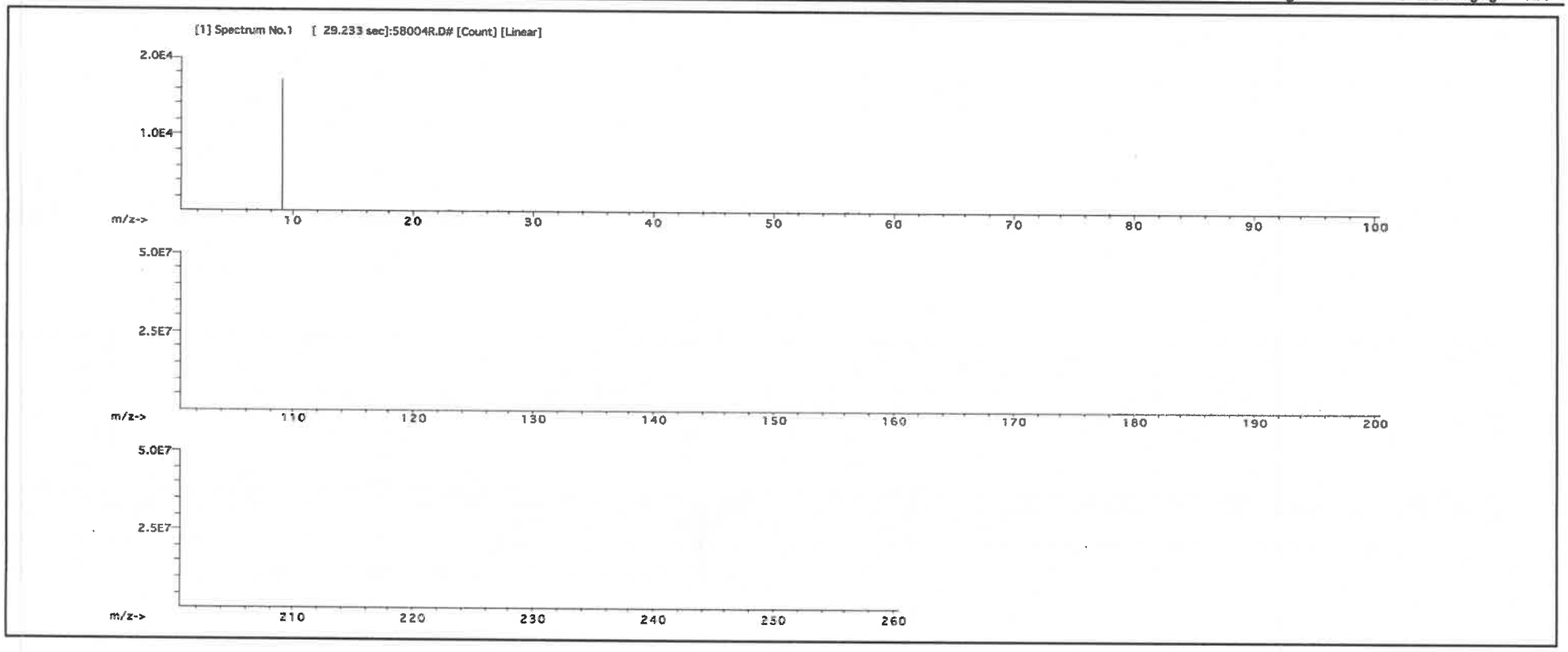
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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)

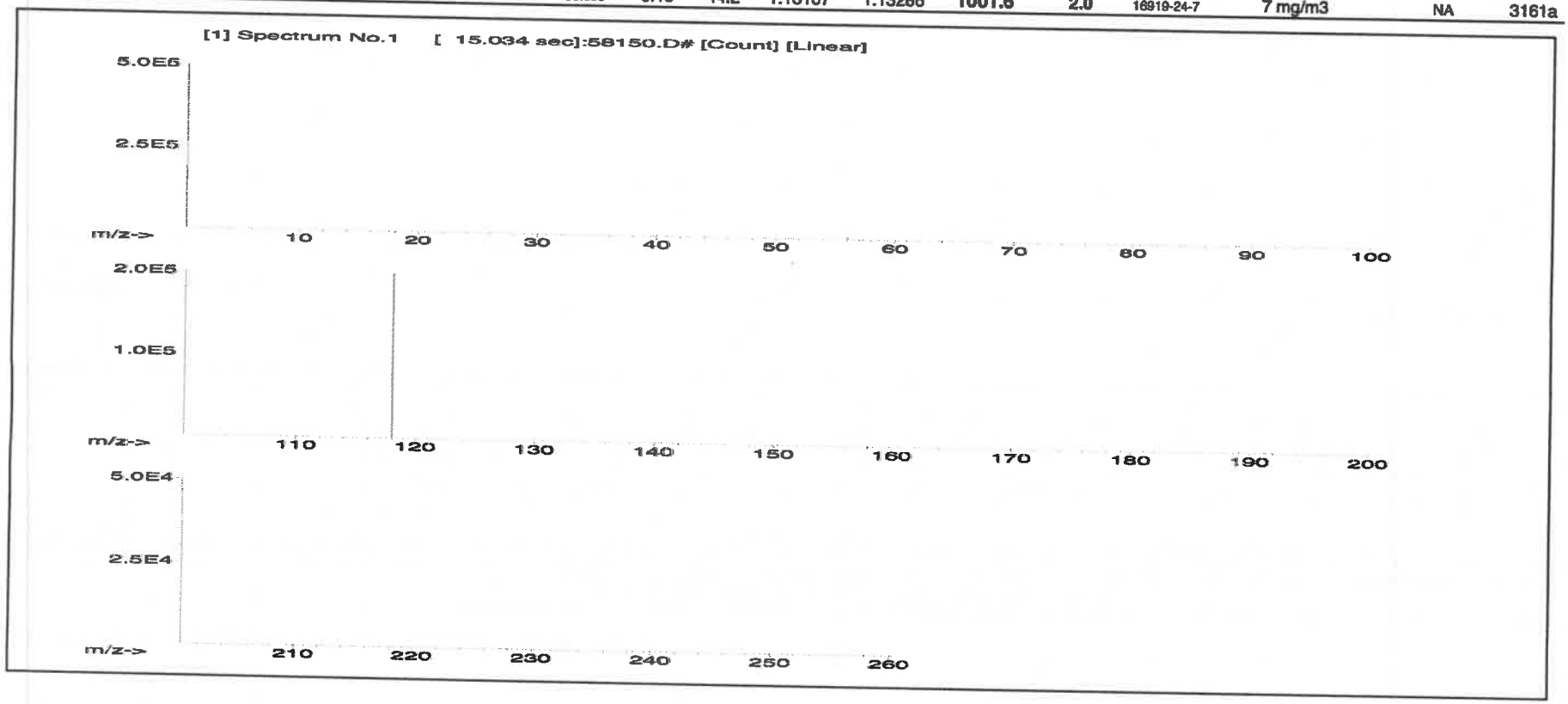
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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

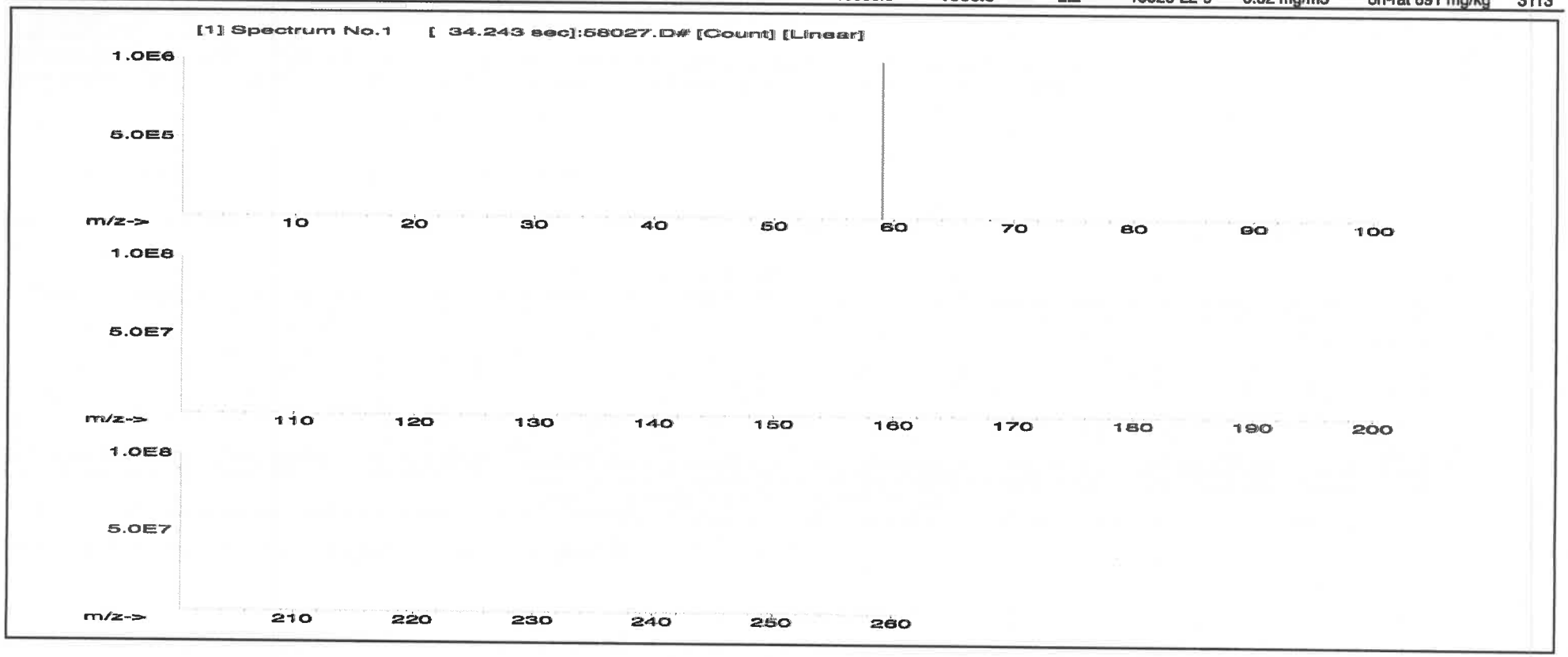
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

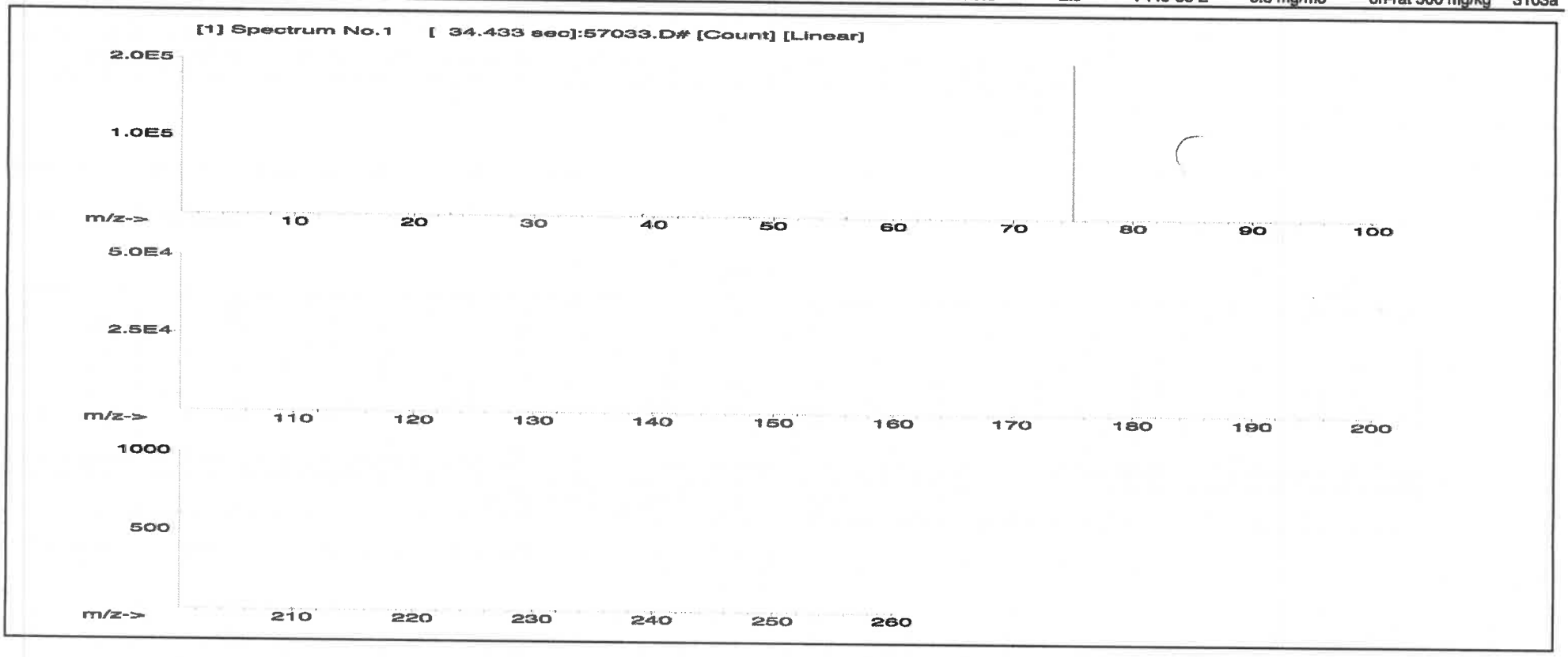
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

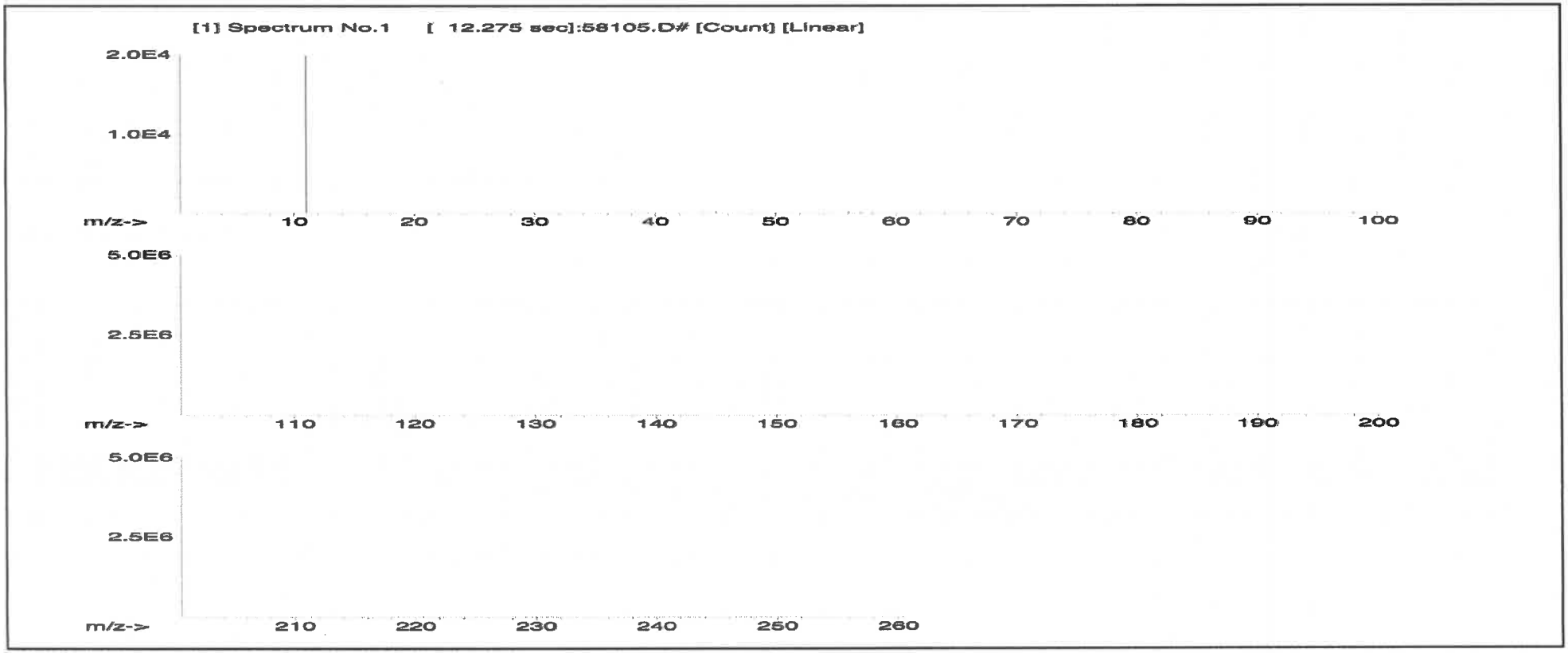
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

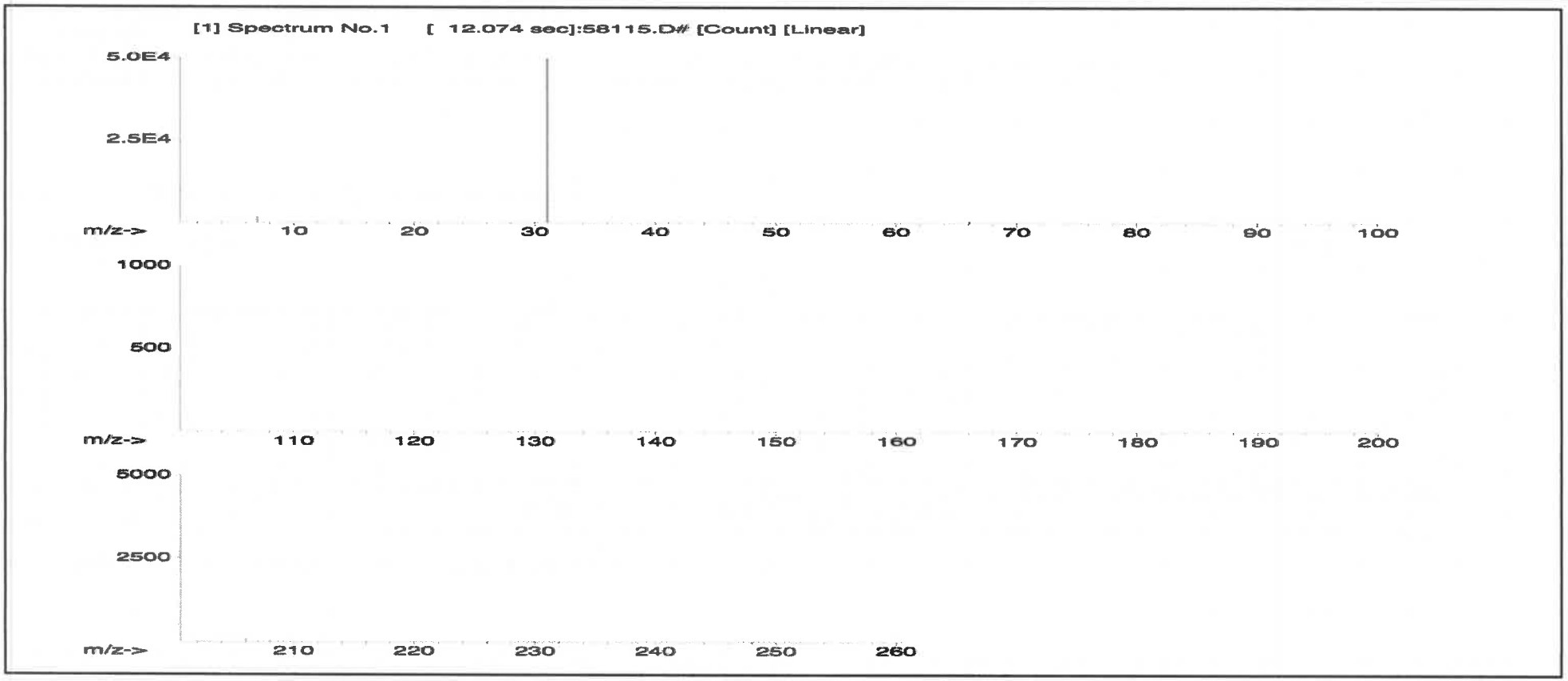
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

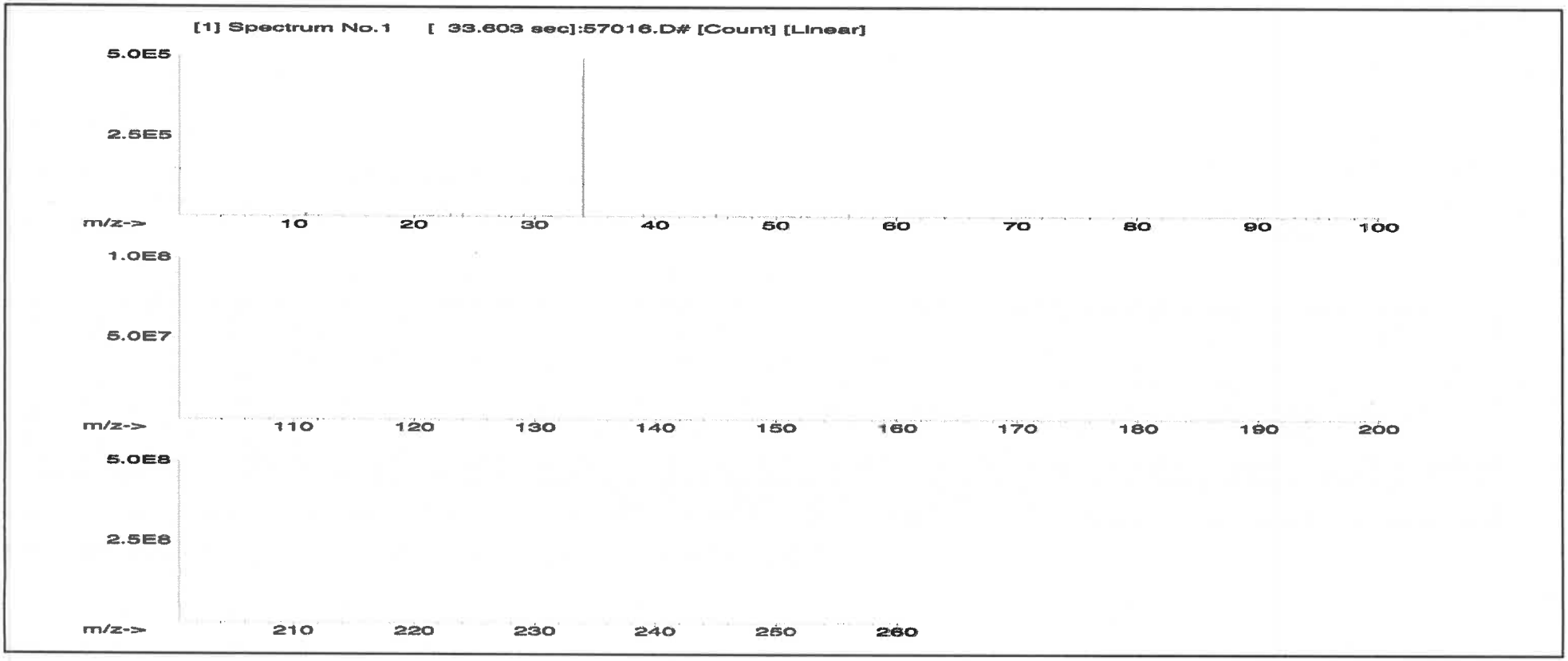
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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:

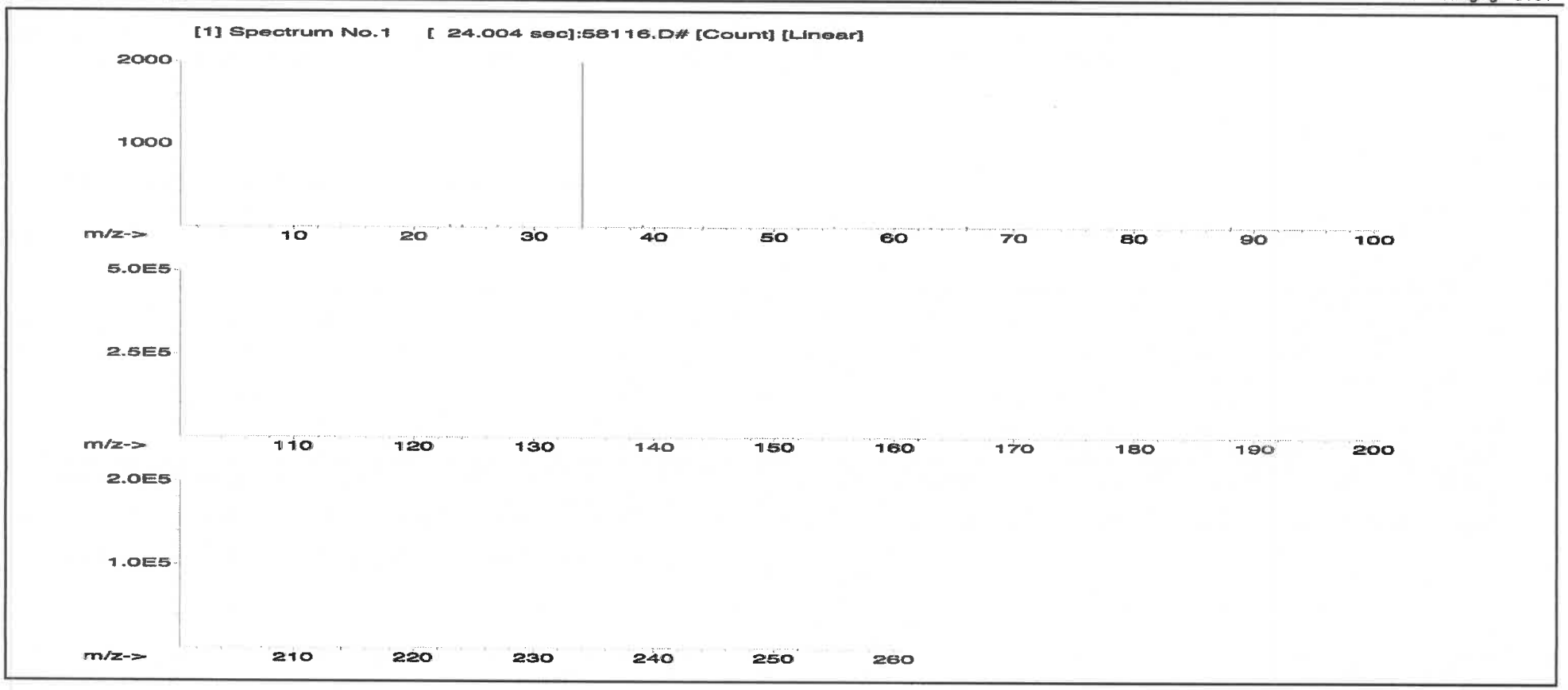
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* 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

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

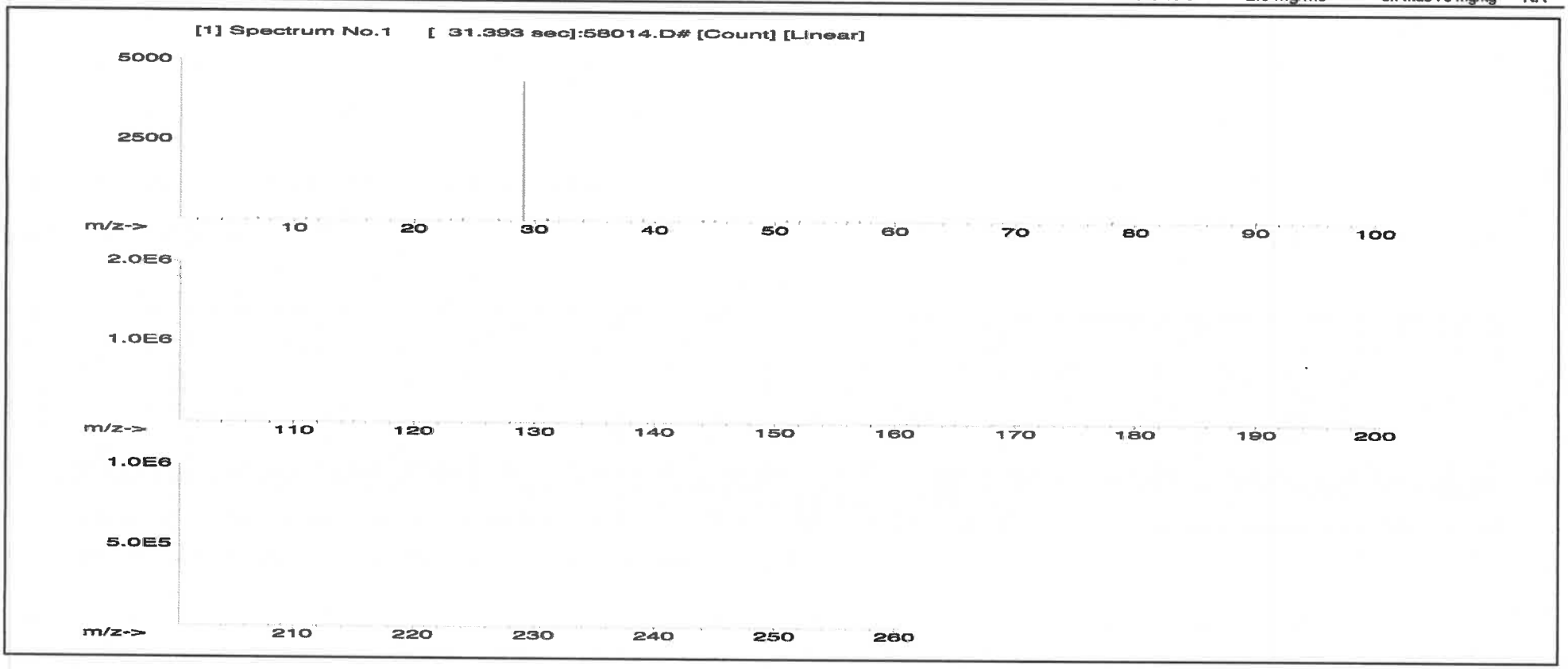
Aleah O'Brady

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:

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 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

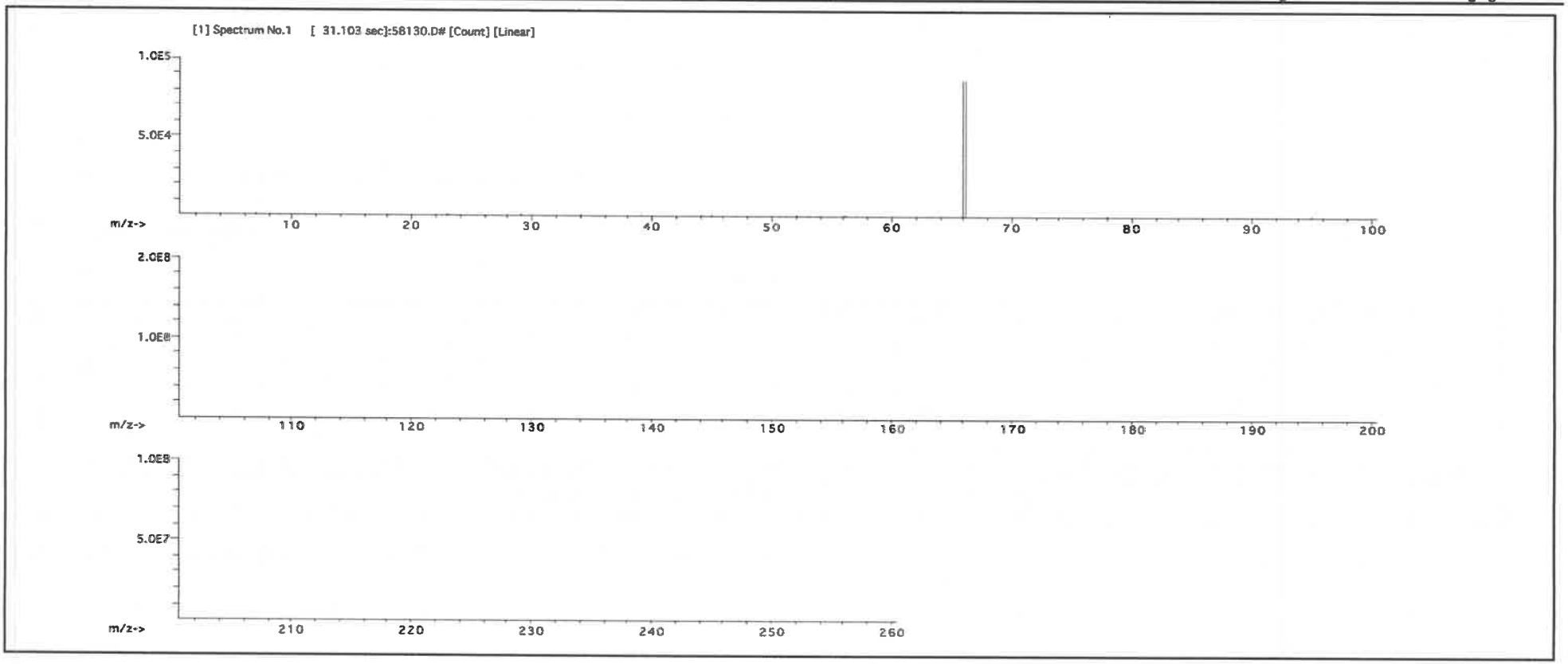
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

		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

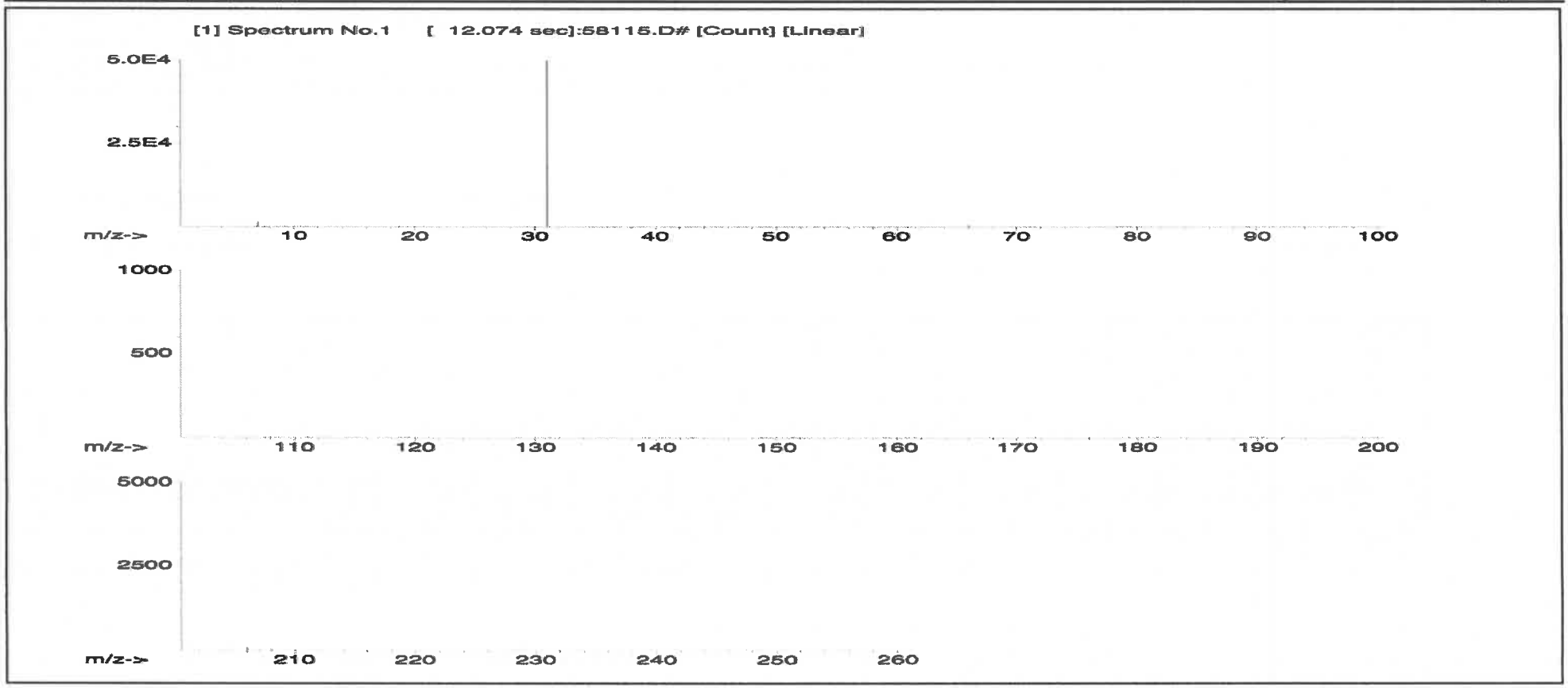
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.

MSS28 - 37 MB MSS53 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.

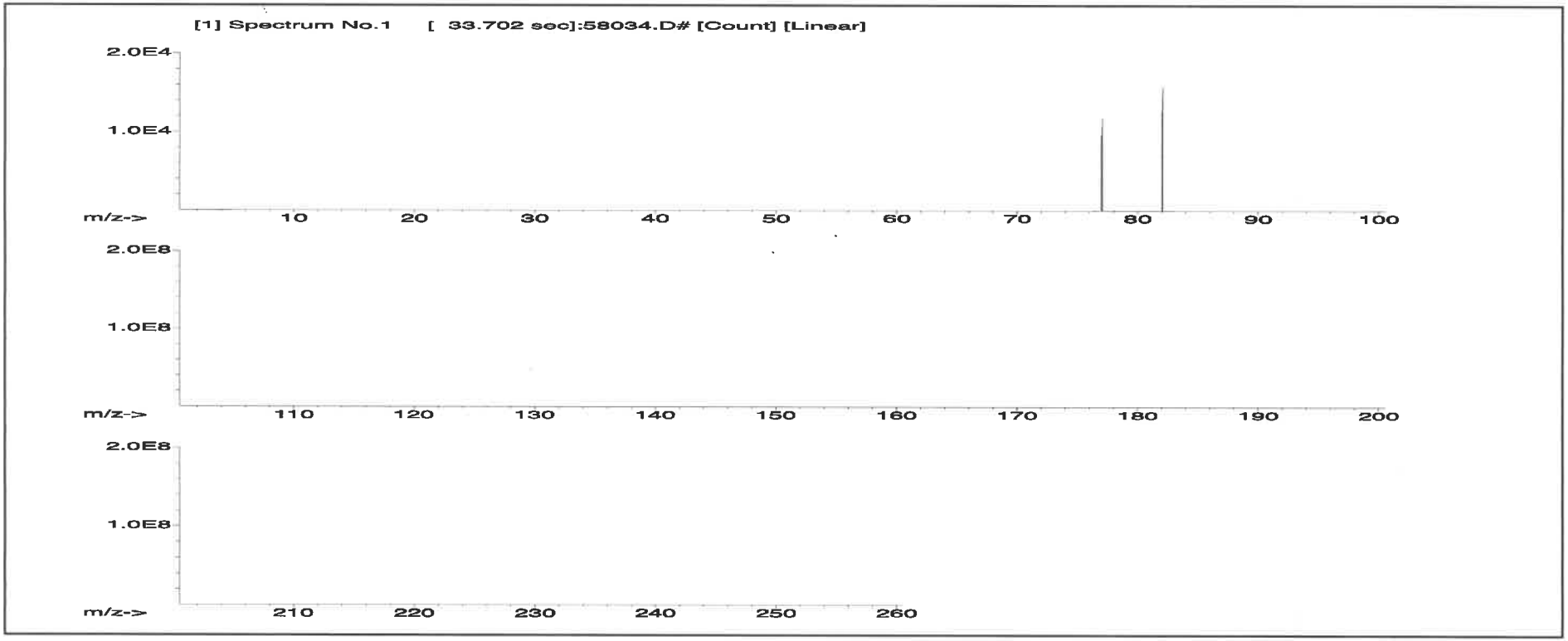
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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).

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

MS963 MS964 MS965
MS966 MS967 MS968

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

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

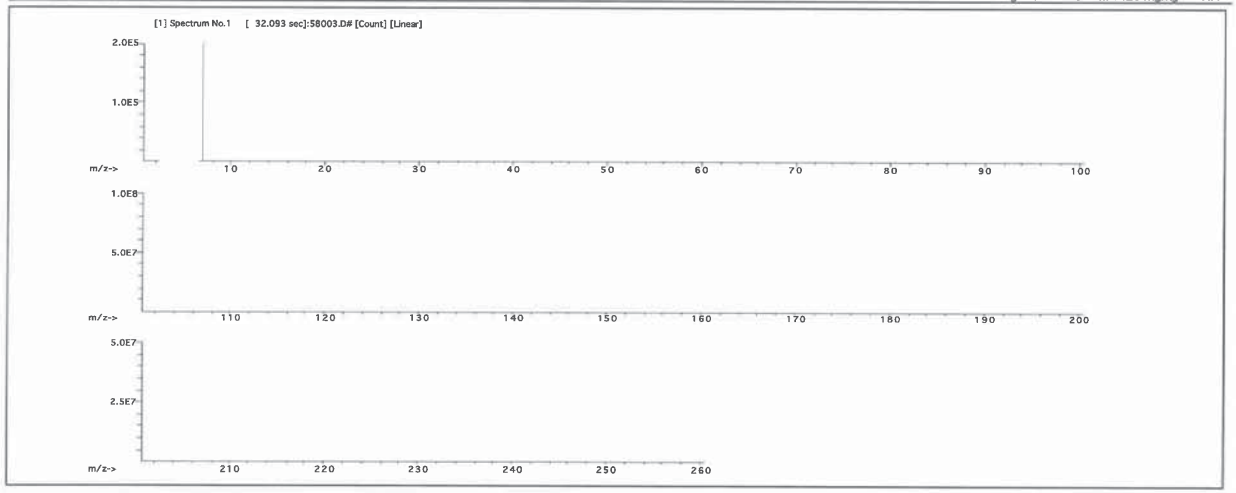
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma(w_i)^2\ (u_{char\ i})^2]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

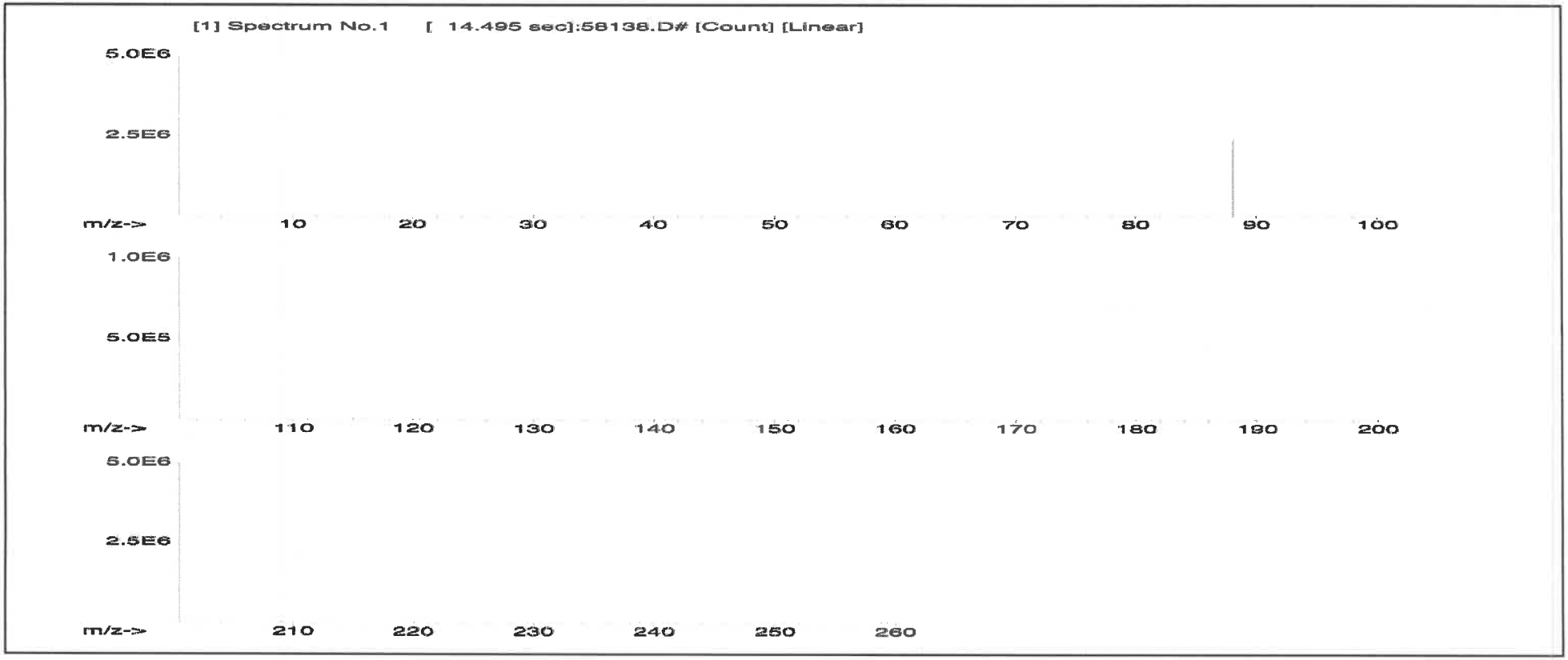
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:	**57038**		**Lot #**		
Lot Number:	**031524**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	031527				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Formulated By:	Benson Chan	031524
Reviewed By:	Pedro L. Rentas	031524

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M6033

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

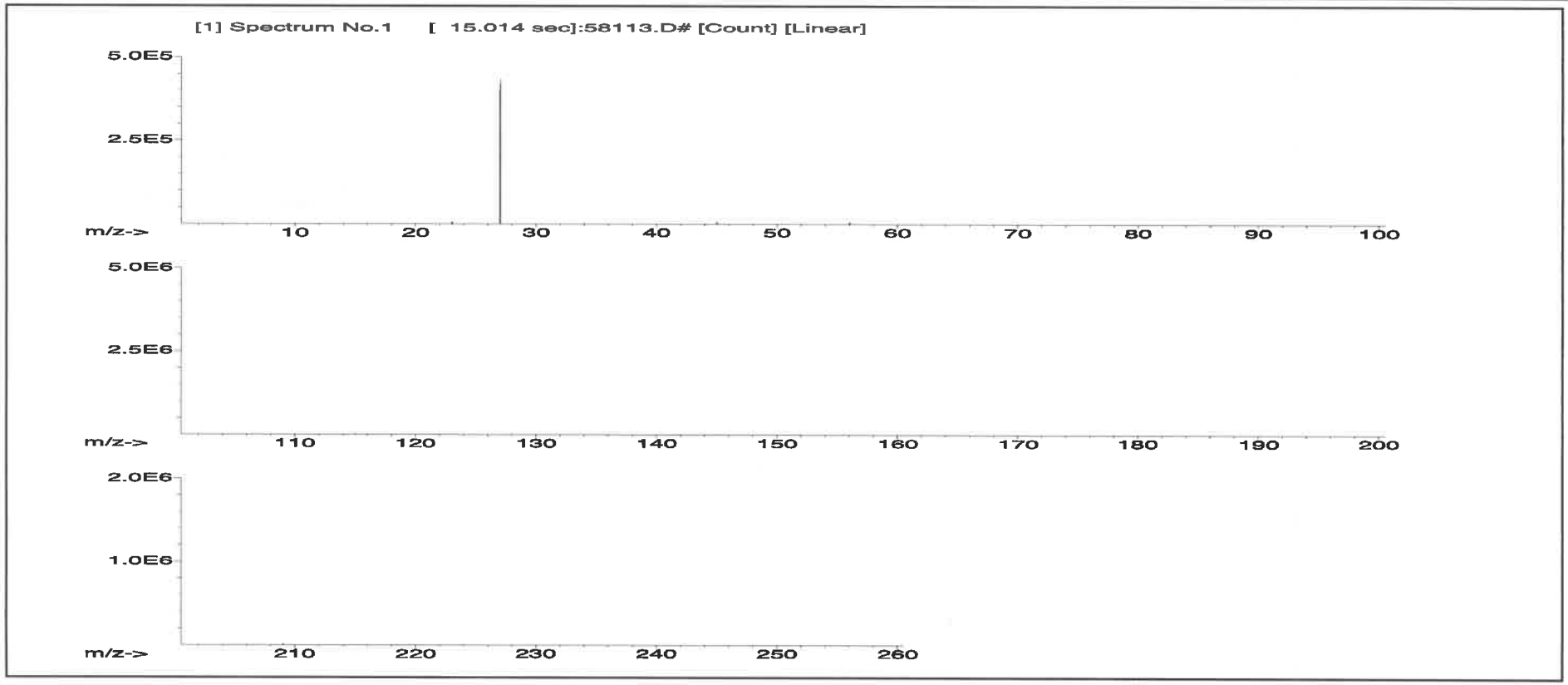
Part Number:	**58113**		**Solvent:**	20510011	Nitric Acid
Lot Number:	**011623**				
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Lot #

Giovanni Esposito

Formulated By:	Giovanni Esposito	011623
Reviewed By:	Pedro L. Rentas	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Nitric Acid 69%
CMOS

Recv date: 1. 1. – 08/01/2023

M6034, M6037
M6035, M6038,
M6036,

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

Recv date: 1. 1. – 08/01/2023

M6034, M6037
M6035, M6038,
M6036,

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Received — 08/01/2024
paper
M6039
M6040

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.192
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

R: 9/2/24.

Certificate of Analysis

M6080, M6081, M6082, M6083, M6084

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6094
M6095.

metdig
10/21/24.

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6094
M6095.

metdig
10/21/24.

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

M6096
M6097
M6098
M6099
M6100

Mtdl 9/21/24

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Expiration Date: 122226
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

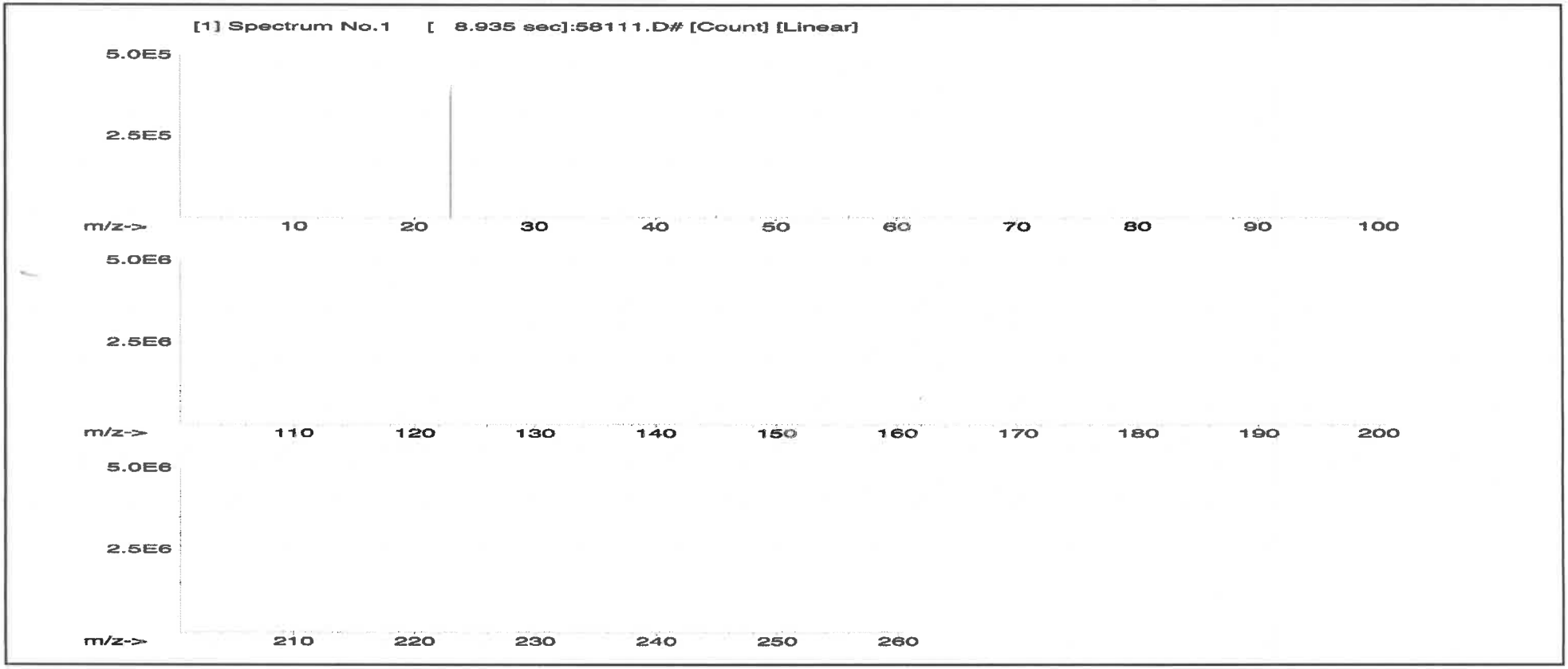
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Aleah O'Brady

Formulated By:	Aleah O'Brady	122223
Reviewed By:	Pedro L. Rentas	122223

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

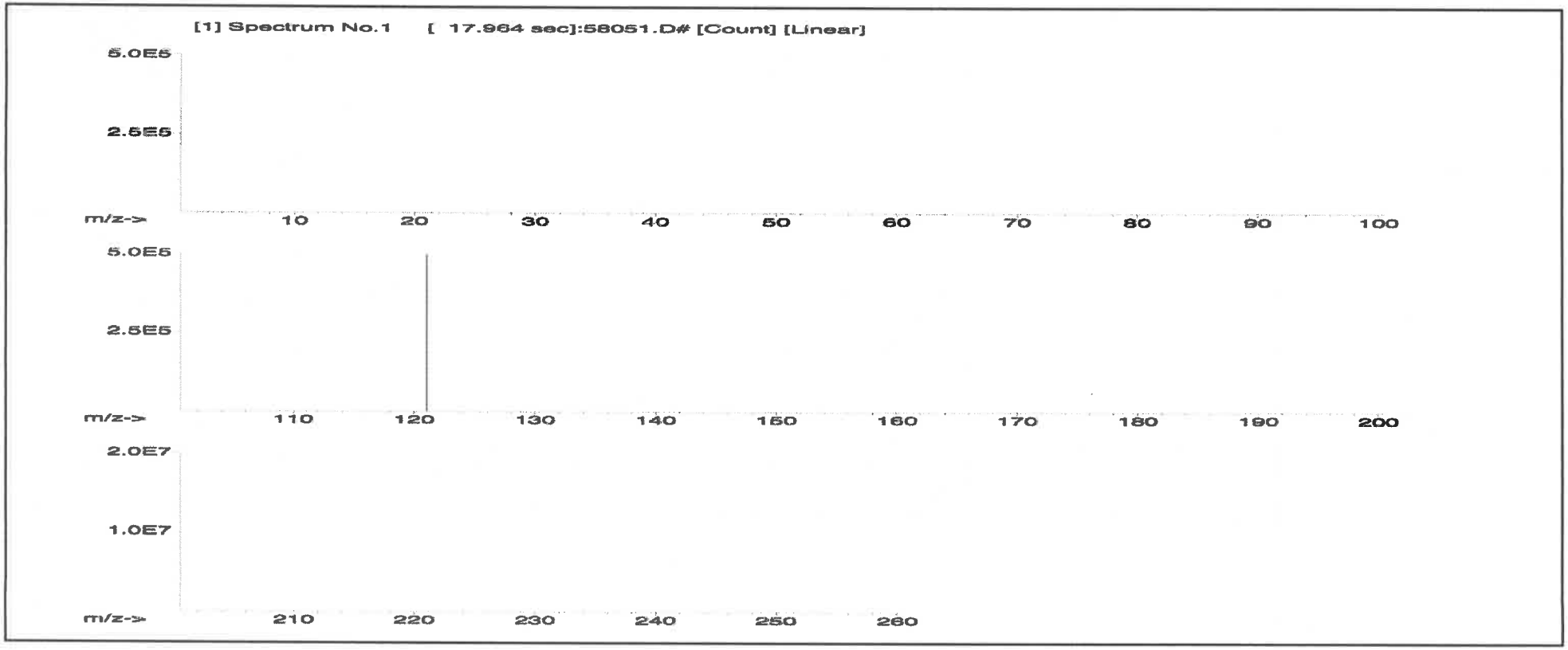
R: 01/03/24 M5802, M5803

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**120523**			
Description:	**Antimony (Sb)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	120526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Rentas	120523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

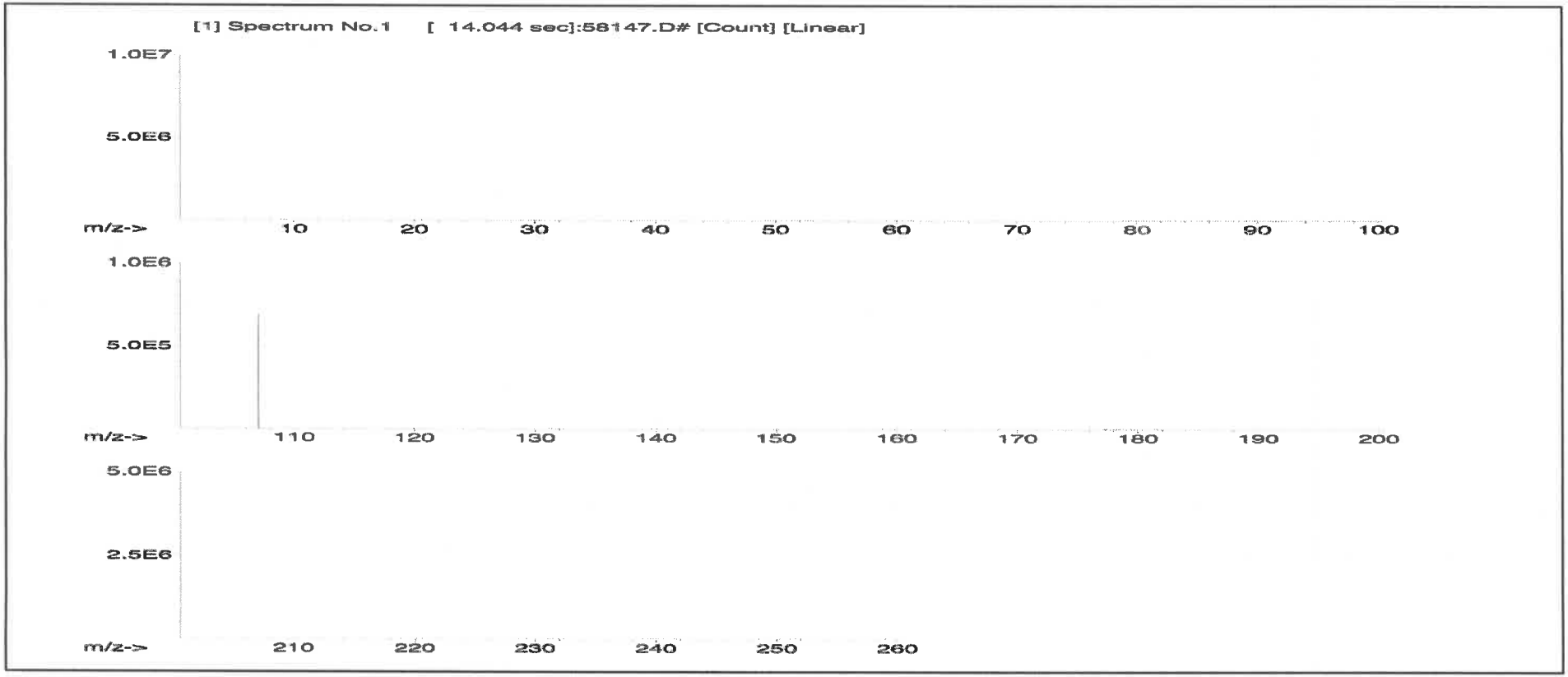
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

R ! 8/5/24

M6023

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

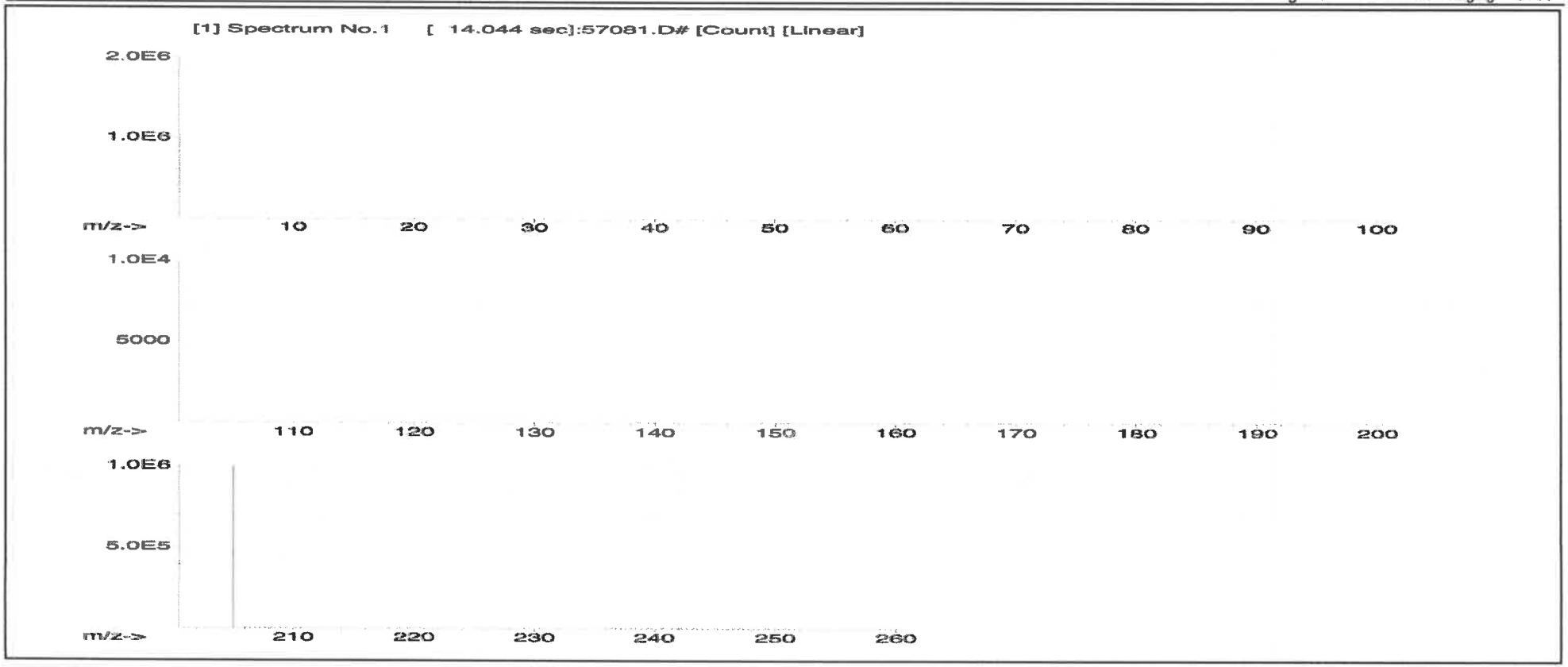
CERTIFIED WEIGHT REPORT:

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
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

Bc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

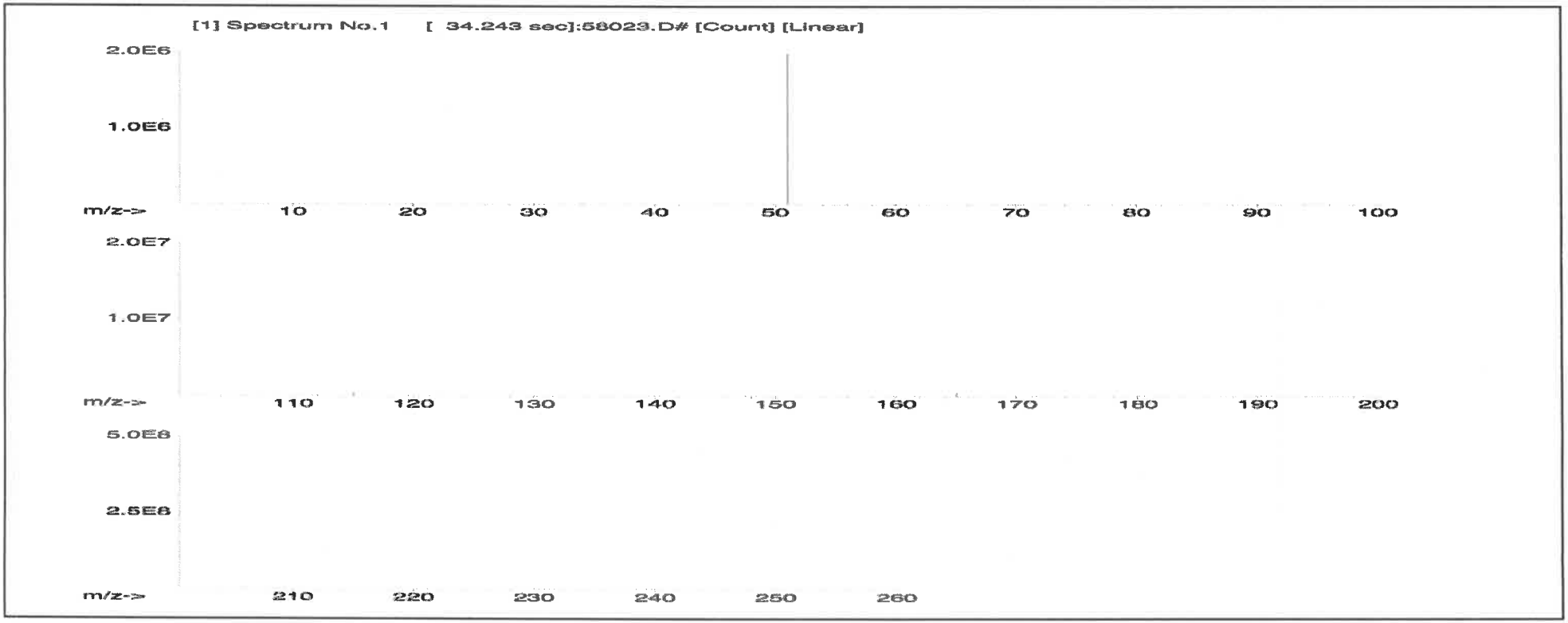
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

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).



SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P4578/79
QUOTE NO.
COC Number 2042038

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: GANNETT FLEMING
ADDRESS: 1010 Adams Avenue
CITY Audubon STATE: PA ZIP: 19403
ATTENTION: Joe Krupansky
PHONE: 610-391-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's Mop. of SB
PROJECT NO.: 95000005B LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: aaac@bemgs.com
PHONE: 610-391-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St.
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha PHONE: 908-788-398

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT BEM EDD
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other _____

ANALYSIS

1 TCL VOC +10 | 2 TCL PAH | 3 PCB's | 4 Cr(III), Cr(VI) | 5 TAL Metals | 6 EPH | 7 TCLP - Full | 8 RCRA Parameters | 9 TDX

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A			F	B					← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	WB-305-SW	GW	X		10/25	8:20	7	X	X	X	X	X	X				
2.	WB-305-SW-1	GW	X		10/25	8:30	7	X	X	X	X	X	X				
3.	WB-305-TOP	S	X		10/25	9:20	11	X	X	X	X	X	X				
4.	WB-305-TOP-1	S	X		10/25	9:30	11	X	X	X	X	X	X				
5.	WB-305-Bot	S	X		10/25	11:15	11	X	X	X	X	X	X	X	X	X	
6.	WB-305-Bot-1	S	X		10/25	11:20	11	X	X	X	X	X	X	X	X	X	
7.	FB-10252024	D.I.W.			10/25		2	X									
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Vaunda Pujara	10/25/24-3:11	1.
2.		2.
3.	10.25.2024 1604	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.1 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

Copyright © 2023

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH 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 : P4578 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 10/25/2024 3:58:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 10/25/2024 4:04:00 PM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4578-01	WB-305-SW	Water	10/25/2024	08:20					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
P4578-02	WB-305-SW-1	Water	10/25/2024	08:30					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
P4578-03	WB-305-TOP	Solid	10/25/2024	09:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4578-04	WB-305-TOP-1	Solid	10/25/2024	09:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4578-05	WB-305-BOT	Solid	10/25/2024	11:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4578-07	WB-305-BOT-1	Solid	10/25/2024	11:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4578-09	TB-10252024	Water	10/25/2024	00:00					
					VOC-TCLVOA-10		8260-Low		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 :	P4578 PORT06	**Order Date :**	10/25/2024 3:58:00 PM	**Project Mgr :**	
Client Name :	Portal Partners Tri-Venture	**Project Name :**	Amtrak Sawtooth Bridges 2	**Report Type :**	NJ Reduced
Client Contact :	Joseph Krupansky	**Receive DateTime :**	10/25/2024 4:04:00 PM	**EDD Type :**	EXCEL NJCLEANUP
Invoice Name :	Portal Partners Tri-Venture	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Joseph Krupansky			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

* J.C samples are in SM Refrigerator *

Relinguished By : J. C
Date / Time : 10-25-2024 1710

Received By : Sam 10/25/2024 1710
Date / Time : Sam.

RJ 6 +2 2 RJ 5

Storage Area : VOA Refridgerator Room